



Inverter Pair Wall Mounted Type J-Series







[Applied Models] ● Inverter Pair : Heat Pump

Inverter Pair Wall Mounted Type J-Series

Heat Pump

Indoor Unit FTXG25JV1BW FTXG25JV1BS FTXG25JV1BA FTXG35JV1BW FTXG35JV1BS FTXG35JV1BA FTXG50JV1BW FTXG50JV1BS FTXG50JV1BA

Outdoor Unit RXG25J2V1B

RXG25J2V1B RXG35J2V1B RXG25K2V1B RXG35K2V1B RXG50K2V1B RXG25K3V1B RXG35K3V1B RXG50K3V1B



The removal procedure for each model is separately bound. Refer to page 137 for the booklet number of applicable model.

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Introduction Safety Cautions

Cautions and Warnings

- Be sure to read the following safety cautions before conducting repair work.
- The caution items are classified into " ⚠️ Warning" and "⚠️ Caution". The "⚠️ 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
 - \triangle This symbol indicates the item for which caution must be exercised.
 - The pictogram shows the item to which attention must be paid.
 - This symbol indicates the prohibited action.
 - The prohibited item or action is shown in the illustration or near the symbol.
- This symbol indicates the action that must be taken, or the instruction. The instruction is shown in the illustration 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 Cautions Regarding Safety of Workers

Warning	
Be sure to disconnect the power cable plug from the plug socket before disassembling the equipment for repair. Working on the equipment that is connected to the power supply may cause an electrical shock. 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.	0.5
If the refrigerant gas is discharged during the repair work, do not touch the discharged refrigerant gas. The refrigerant gas may cause frostbite.	\bigcirc
When disconnecting the suction or discharge pipe of the compressor at the welded section, evacuate the refrigerant gas completely at a well-ventilated place first. If there is gas remaining inside the compressor, the refrigerant gas or refrigerating machine oil discharges when the pipe is disconnected, and it may cause injury.	0
If the refrigerant gas leaks during the repair work, ventilate the area. The refrigerant gas may 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 may 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 may cause an electrical shock or fire.	\bigcirc

Warning	
Be sure to wear a safety helmet, gloves, and a safety belt when working at a high place (more than 2 m). Insufficient safety measures may cause a fall accident.	\bigcirc
In case of R-410A refrigerant models, be sure to use pipes, flare nuts and tools for the exclusive use of the R-410A refrigerant. The use of materials for R-22 refrigerant models may cause a serious accident such as a damage of refrigerant cycle as well as an equipment failure.	\bigcirc
Caution	
Do not repair the electrical components with wet hands.	

Do not repair the electrical components with wet hands. Working on the equipment with wet hands may cause an electrical shock.	
Do not clean the air conditioner by splashing water. Washing the unit with water may cause an electrical shock.	
Be sure to provide the grounding when repairing the equipment in a humid or wet place, to avoid electrical shocks.	ļ
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 may cause injury.	
Be sure to conduct repair work with appropriate tools. The use of inappropriate tools may cause injury.	
Be sure to check that the refrigerating cycle section has cooled down enough before conducting repair work. Working on the unit when the refrigerating cycle section is hot may cause burns.	
Use the welder in a well-ventilated place. Using the welder in an enclosed room may cause oxygen deficiency.	

1.1.2 Cautions Regarding Safety of Users

Varning	
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 may cause an electrical shock, excessive heat generation or fire.	9
If the power cable and lead wires have scratches or deteriorated, be sure to replace them. Damaged cable and wires may cause an electrical shock, excessive heat generation or fire.	
Do not use a joined power cable or extension cable, or share the same power outlet with other electrical appliances, since it may cause an electrical shock, excessive heat generation or fire.	\bigcirc
Be sure to use an exclusive power circuit for the equipment, and follow the local 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 may cause an electrical shock or fire.	
Be sure to use the specified cable for wiring 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 may cause excessive heat generation or fire.	
When wiring 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 may cause an electrical shock, excessive heat generation or fire.	
Do not damage or modify the power cable. Damaged or modified power cable may cause an electrical shock or fire. Placing heavy items on the power cable, and heating or pulling the power cable may damage the cable.	\bigcirc
Do not mix air or gas other than the specified refrigerant (R-410A / R-22) in the refrigerant system. If air enters the refrigerating system, an excessively high pressure results, causing equipment damage and injury.	\bigcirc
If the refrigerant gas leaks, be sure to locate the leaking point and repair it before charging the refrigerant. After charging refrigerant, make sure that there is no refrigerant leak. If the leaking point 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 may generate toxic gases when it contacts flames, such as fan and other heaters, stoves and ranges.	9
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 may fall and cause injury.	0

Warning	
Check to make sure that the power cable plug is not dirty or loose, then insert the plug into a power outlet securely. If the plug has dust or loose connection, it may cause an electrical shock or fire.	0
Be sure to install the product correctly by using the provided standard installation frame. Incorrect use of the installation frame and improper installation may cause the equipment to fall, resulting in injury.	For unitary type only
Be sure to install the product securely in the installation frame mounted on the window frame. If the unit is not securely mounted, it may fall and cause injury.	For unitary type only
When replacing the coin battery in the remote controller, be sure to dispose of the old battery to prevent children from swallowing it. If a child swallows the coin battery, see a doctor immediately.	0

Caution	
Installation of a leakage breaker is necessary in some cases depending on the conditions of the installation site, to prevent electrical shocks.	
	U
Do not install the equipment in a place where there is a possibility of combustible gas leaks.	
If the combustible gas leaks and remains around the unit, it may cause a fire.	\bigcirc
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 may cause excessive heat generation, fire or an electrical shock.	0
If the installation platform or frame has corroded, replace it. Corroded installation platform or frame may cause the unit to fall, resulting in injury.	0
Check the grounding, and repair it if the equipment is not properly grounded. Improper grounding may cause an electrical shock.	ļ

<u>^</u>	
Caution	
Be sure to measure the insulation resistance after the repair, and make sure that the resistance is 1 M Ω or higher. Faulty insulation may cause an electrical shock.	0
Be sure to check the drainage of the indoor unit after the repair. Faulty drainage may cause the water to enter the room and wet the furniture and floor.	0
Do not tilt the unit when removing it. The water inside the unit may spill and wet the furniture and floor.	\bigcirc
Be sure to install the packing and seal on the installation frame properly. If the packing and seal are not installed properly, water may enter the room and wet the furniture and floor.	For unitary type only

1.2 Used 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:

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.
L	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.

Part 1 List of Functions

1.	Functions	2
١.	Functions	

1. Functions

Category	Functions	FTXG25/35JV1BW(S) RXG25/35J2V1B	Category	Functions	FTXG25/35JV1BW(S) RXG25/35J2V1B
Basic Function	Inverter (with inverter power control)	•	Health & Clean	Air-purifying filter	_
	Operation limit for cooling (°CDB)	-10 ~ 46		Photocatalytic deodorizing filter	-
	Operation limit for heating (°CWB)	–15 ~ 18		Air-purifying filter with photocatalytic deodorizing function	-
	PAM control	•		Titanium apatite photocatalytic	•
	Standby electricity saving	•		air-purifying filter	
Compressor	Oval scroll compressor			Air filter (prefilter)	•
	Swing compressor	•		Wipe-clean flat panel	٠
	Rotary compressor			Washable grille	-
	Reluctance DC motor	•		MOLD PROOF operation	
Comfortable Airflow	Power-airflow flap			Heating dry operation	
AIIIOW	Power-airflow dual flaps	•		Good-sleep cooling operation	
	Power-airflow diffuser	—	Timer	WEEKLY TIMER operation	•
	Wide-angle louvers	•		24-hour ON/OFF timer	•
	Vertical auto-swing (up and down)			NIGHT SET mode	•
	Horizontal auto-swing (right and left)		Worry Free "Reliability &	Auto-restart (after power failure)	•
	3-D airflow	—	Durability"	Self-diagnosis (digital, led) display	•
	COMFORT AIRFLOW operation	•		Wiring error check function	
Comfort Control	Auto fan speed			Anti-corrosion treatment of outdoor heat exchanger	
Control	Indoor unit quiet operation	•			
	NIGHT QUIET mode (automatic)		Flexibility	Multi-split / split type compatible indoor unit	•
	OUTDOOR UNIT QUIET operation (manual)	•		Flexible power supply correspondence	—
	INTELLIGENT EYE operation	•		High ceiling application	-
	Quick warming function (preheating operation) Hot-start function		-	Chargeless	10 m
				Either side drain (right or left)	•
	Automatic defrosting	•		Power selection	_
Operation	Automatic operation	•	Remote	5-room centralized controller (option)	
	Program dry operation		Control		
	Fan only			Remote control adaptor (normal open pulse contact) (option)	•
Lifestyle Convenience	New POWERFUL operation (non-inverter)			Remote control adaptor (normal open contact) (option)	•
	Inverter POWERFUL operation	•		DIII-NET compatible (adaptor) (option)	•
	Priority-room setting		Remote Controller	Wireless	•
	COOL / HEAT mode lock		Controller	Wired (option)	•
	HOME LEAVE operation				
	ECONO operation	•			
	Indoor unit [ON/OFF] button	•			
	Signal receiving sign	•			
	Multi-colored indicator lamp (multi-monitor lamp)	•			
	R/C with back light	•			
	Temperature display • Holding Functions	—			

Note: • : Holding Functions

- : No Functions

Category	Functions	FTXG25/35JV1BW(S)(A) RXG25/35K2V1B	FTXG50JV1BW(S)(A) RXG50K2V1B	Category	Functions	FTXG25/35JV1BW(S)(A) RXG25/35K2V1B	FTXG50JV1BW(S)(A) RXG50K2V1B
Basic Function	Inverter (with inverter power control)	•	•	Health & Clean	Air-purifying filter	—	
	Operation limit for cooling (°CDB)	10 ~ 46	10 ~ 46		Photocatalytic deodorizing filter	_	—
	Operation limit for heating (°CWB)	-15 ~ 18	-15 ~ 18		Air-purifying filter with photocatalytic deodorizing function	_	—
	PAM control	•	•		Titanium apatite photocatalytic		•
	Standby electricity saving	•	—		air-purifying filter	•	•
Compressor	Oval scroll compressor	—	—		Air filter (prefilter)	•	•
	Swing compressor	•	•		Wipe-clean flat panel	•	•
	Rotary compressor	—	—		Washable grille	—	—
	Reluctance DC motor	•	•]	MOLD PROOF operation		L–
Comfortable	Power-airflow flap	_	_		Heating dry operation	_	_
Airflow	Power-airflow dual flaps	•	•		Good-sleep cooling operation	_	—
	Power-airflow diffuser		—	Timer	WEEKLY TIMER operation	•	•
	Wide-angle louvers		٠		24-hour ON/OFF timer	•	•
	Vertical auto-swing (up and down)		٠		NIGHT SET mode	•	•
	Horizontal auto-swing (right and left)	_	_	Worry Free	Auto-restart (after power failure)	٠	•
	3-D airflow		_	"Reliábility & Durability"	Self-diagnosis (digital, LED) display	•	•
	COMFORT AIRFLOW operation	•	٠	Durability	Wiring error check function	_	—
Comfort	Auto fan speed		•		Anti-corrosion treatment of outdoor		
Control	Indoor unit quiet operation				heat exchanger	•	•
	NIGHT QUIET mode (automatic)	_	_	Flexibility			
	OUTDOOR UNIT QUIET operation (manual)	•	•		Multi-split / split type compatible indoor unit	•	•
	INTELLIGENT EYE operation	•	•		Flexible power supply correspondence	_	—
	Quick warming function (preheating operation)		•		High ceiling application	_	_
	Hot-start function	•	•		Chargeless	10 m	10 m
	Automatic defrosting		•		Either side drain (right or left)	•	•
Operation	Automatic operation	•	•		Power selection	_	-
	Program dry operation	•	•	Remote			
	Fan only	•	•	Control	5-room centralized controller (option)	•	•
Lifestyle Convenience	New POWERFUL operation (non-inverter)	_			Remote control adaptor (normal open pulse contact) (option)	•	•
	Inverter POWERFUL operation	•	•		Remote control adaptor (normal open contact) (option)	•	•
	Priority-room setting	1_	_	1	DIII-NET compatible (adaptor) (option)	•	•
	COOL / HEAT mode lock	1_	_	Remote	Wireless	•	•
	HOME LEAVE operation	_	_	Controller	Wired (option)	•	•
	ECONO operation	•	•				
	Indoor unit [ON/OFF] button	•	•				
	Signal receiving sign	•	•				1
	Multi-colored indicator lamp (multi-monitor lamp)	•	•				
	1.5	1	1	1		1	1
	R/C with back light	•	•				

Note: • : Holding Functions

- : No Functions

Category	Functions	FTXG25/35JV1BW(A) RXG25/35K3V1B	FTXG50JV1BW(A) RXG50K3V1B	Category	Functions	FTXG25/35JV1BW(A) RXG25/35K3V1B	FTXG50JV1BW(A) RXG50K3V1B
Basic Function	Inverter (with inverter power control)	•	٠	Health & Clean	Air-purifying filter	_	_
	Operation limit for cooling (°CDB)	10 ~ 46	10 ~ 46 ★		Photocatalytic deodorizing filter	_	_
	Operation limit for heating (°CWB)	-15 ~ 18	-15 ~18		Air-purifying filter with photocatalytic deodorizing function	_	-
	PAM control	•	•		Titanium apatite photocatalytic		
	Standby electricity saving	•	—		air-purifying filter	•	•
Compressor	Oval scroll compressor	_	—		Air filter (prefilter)	•	•
	Swing compressor	•	٠		Wipe-clean flat panel	•	•
	Rotary compressor	—	—		Washable grille	—	—
	Reluctance DC motor	•	•		MOLD PROOF operation	_	—
Comfortable	Power-airflow flap	—	—		Heating dry operation	_	—
Airflow	Power-airflow dual flaps	•	٠		Good-sleep cooling operation	_	_
	Power-airflow diffuser	_	_	Timer	WEEKLY TIMER operation	٠	•
	Wide-angle louvers		٠		24-hour ON/OFF timer	•	•
	Vertical auto-swing (up and down)	•	•	-	NIGHT SET mode	•	•
	Horizontal auto-swing (right and left)	_	_	Worry Free	Auto-restart (after power failure)	•	•
	3-D airflow		_	"Reliability & Durability"	Self-diagnosis (digital, LED) display	•	•
	COMFORT AIRFLOW operation	•	•	Durability	Wiring error check function	_	—
Comfort	Auto fan speed	•	•		Anti-corrosion treatment of outdoor	_	_
Control	Indoor unit quiet operation		٠		heat exchanger	•	•
	NIGHT QUIET mode (automatic)		_	Flexibility			
	OUTDOOR UNIT QUIET operation (manual)	•	•		Multi-split / split type compatible indoor unit	•	•
	INTELLIGENT EYE operation	•	٠		Flexible power supply correspondence	_	_
	Quick warming function (preheating operation)	•	•		High ceiling application	_	_
	Hot-start function		•		Chargeless	10 m	10 m
	Automatic defrosting		•		Either side drain (right or left)	•	•
Operation	Automatic operation	•	٠		Power selection	—	—
	Program dry operation		•	Remote Control	5-room centralized controller (option)	•	•
Lifestyle Convenience	Fan only New POWERFUL operation (non-inverter)	•	• _		Remote control adaptor (normal open pulse contact) (option)	•	•
	Inverter POWERFUL operation	•	•	1	Remote control adaptor (normal open contact) (option)	•	•
	Priority-room setting	_	_	1	DIII-NET compatible (adaptor) (option)	•	•
	COOL / HEAT mode lock		_	Remote	Wireless	•	•
	HOME LEAVE operation		_	Controller	Wired (option)	•	•
	ECONO operation	•	•				
	Indoor unit [ON/OFF] button	•	•				
	Signal receiving sign	•	•				
	Multi-colored indicator lamp (multi-monitor lamp)	•	•				
i i i							
	R/C with back light	•	٠				

Note: • : Holding Functions

- : No Functions

 ★ : Lower limit can be extended to -10°C by cutting jumper. (facility use only) Refer to page 129 for detail.

Part 2 Specifications

1.	Specifications	.6	ì
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1. Specifications

50 Hz, 220 - 230 - 240 V

Models	Indoor Unit		-	5JV1BW	FTXG25JV1BS		
Models	Outdoor Unit			5J2V1B		J2V1B	
			Cooling	Heating	Cooling	Heating	
Capacity		kW	2.5 (1.3 ~ 3.0)	3.4 (1.3 ~ 4.5)	2.5 (1.3 ~ 3.0)	3.4 (1.3 ~ 4.5)	
Rated (Min. ~	Max.)	Btu/h	8,500 (4,400 ~ 10,200)	11,600 (4,400 ~ 15,400)	8,500 (4,400 ~ 10,200)	11,600 (4,400 ~ 15,400	
		kcal/h	2,150 (1,120 ~ 2,580)	2,920 (1,120 ~ 3,870)	2,150 (1,120 ~ 2,580)	2,920 (1,120 ~ 3,870)	
Running Curre		A	3.2 - 3.0 - 2.9	4.4 - 4.2 - 4.1	3.2 - 3.0 - 2.9	4.4 - 4.2 - 4.1	
ower Consur	nption	w	560 (350 ~ 820)	780 (320 ~ 1,320)	560 (350 ~ 820)	780 (320 ~ 1,320)	
Rated (Min. ~	Max.)		, ,	(, , , , , , , , , , , , , , , , , , ,	(, ,		
Power Factor		%	79.5 - 81.2 - 80.5	80.6 - 80.7 - 79.3	79.5 - 81.2 - 80.5	80.6 - 80.7 - 79.3	
ER (Cooling) Rated (Min. ~) / COP (Heating)	W/W	4.46 (3.71 ~ 3.66)	4.36 (4.06 ~ 3.41)	4.46 (3.71 ~ 3.66)	4.36 (4.06 ~ 3.41)	
naleu (IVIIII. ~		mm		6.4		24	
Piping	Liquid	mm		6.4		5.4	
Connections	Gas	mm		9.5	9 ¢		
	Drain	mm		or ø 18.0		or ¢ 18.0	
leat Insulation				and Gas Pipes		nd Gas Pipes	
	Piping Length	m		20	2		
	Height Difference	m		15	1	-	
hargeless		m	1	10	1	0	
	ditional Charge of	g/m	2	20	2	0	
Refrigerant		9/11		-		-	
ndoor Unit			-	5JV1BW		5JV1BS	
Front Panel C				hite	Sil		
	Н	T	8.8 (311)	9.6 (339)	8.8 (311)	9.6 (339)	
Airflow Rate	М	m³/min	6.8 (240)	7.9 (279)	6.8 (240)	7.9 (279)	
	L	(cfm)	4.7 (166)	6.2 (219)	4.7 (166)	6.2 (219)	
	SL	-1 F	3.8 (134)	5.4 (191)	3.8 (134)	5.4 (191)	
	Туре			low Fan		low Fan	
an	Motor Output	W	2	29	2	9	
	Speed	Steps		Quiet, Auto		Quiet, Auto	
Air Direction Control		Сюро		zontal, Downward		contal, Downward	
vir Filter	Jonition		0, ,	nable / Mildew Proof	0, ,	able / Mildew Proof	
	ant (Datad)		0.09 - 0.08 - 0.08		0.09 - 0.08 - 0.08	0.12 - 0.11 - 0.11	
Running Curre	1 1	A		0.12 - 0.11 - 0.11			
	mption (Rated)	W	18 - 18 - 18	24 - 24 - 24	18 - 18 - 18	24 - 24 - 24	
ower Factor		%	90.9 - 97.8 - 93.8	90.9 - 94.9 - 90.9	90.9 - 97.8 - 93.8	90.9 - 94.9 - 90.9	
emperature (_		outer Control	Microcomp		
Dimensions (H		mm		15 × 155		15 × 155	
Packaged Dim	nensions ($H \times W \times D$)	mm	285 × 1,0	003 × 377	285 × 1,0	003 × 377	
Veight (Mass))	kg	1	1	1	1	
Gross Weight	(Gross Mass)	kg	1	5	1	6	
Sound Pressure ∟evel	H/M/L/SL	dB(A)	38 / 32 / 25 / 22	39 / 34 / 28 / 25	38 / 32 / 25 / 22	39 / 34 / 28 / 25	
	Level	dB	54	55	54	55	
ound Power				10\/1 D	RXG25	101/48	
			RXG2			J2V1B	
Outdoor Unit			RXG2:			-	
outdoor Unit			lvory	White	lvory	White	
Outdoor Unit Casing Color	Туре		Ivory Hermetically Se	White aled Swing Type	Ivory Hermetically Sea	White aled Swing Type	
Outdoor Unit Casing Color	Type Model		Ivory Hermetically Se 1YC2	White aled Swing Type 3AEXD	lvory Hermetically Sea 1YC23	White aled Swing Type BAEXD	
Dutdoor Unit Casing Color Compressor	Type Model Motor Output	W	Ivory Hermetically Se 1YC2: 6	White aled Swing Type 3AEXD 00	Ivory Hermetically Sea 1YC23 60	White aled Swing Type BAEXD D0	
Dutdoor Unit Casing Color Compressor	Type Model Motor Output Type		Ivory Hermetically Se 1YC2: 6 FV/C	White aled Swing Type 3AEXD 00 550K	Ivory Hermetically Sec 1YC23 60 FVC	White aled Swing Type BAEXD D0 50K S0K	
Dutdoor Unit Casing Color Compressor Refrigerant	Type Model Motor Output Type Charge	W L	Ivory Hermetically Se 1YC2: 6 FVC 0.0.	White aled Swing Type 3AEXD 00 C50K 375	Ivory Hermetically Sea 1YC23 60 FVC 0.3	White aled Swing Type 3AEXD 00 50K 375	
Dutdoor Unit Casing Color Compressor Refrigerant Dil	Type Model Motor Output Type Charge Type		Ivory Hermetically Se 1YC2: 6 FVC 0.1 R-4	White aled Swing Type 3AEXD 00 250K 375 10A	Ivory Hermetically Sec 1YC23 60 FVC 0.3 R-4	White aled Swing Type 3AEXD 300 350K 375 10A	
Dutdoor Unit Casing Color Compressor Refrigerant Dil	Type Model Motor Output Type Charge Type Charge	L kg	Ivory Hermetically Se 1YC2: 6 FVC 0.0 R-4 1.	White aled Swing Type 3AEXD 00 C50K 375 10A 05	Ivory Hermetically Sec 1YC23 60 FVC 0.3 R-4 1.	White aled Swing Type BAEXD 200 250K 375 10A 05	
Dutdoor Unit Casing Color Compressor Refrigerant Dil Refrigerant	Type Model Motor Output Type Charge Charge H	L kg m³/min	Ivory Hermetically Se 1YC2: 6 FVC 0.: R-4 1. 33.5 (1,183)	White aled Swing Type 3AEXD 00 250K 375 110A 05 30.2 (1,066)	Ivory Hermetically Sea 1YC23 60 FVC 0.3 R-4 1.1 33.5 (1,183)	White aled Swing Type 3AEXD 20 550K 375 10A 05 30.2 (1,066)	
Dutdoor Unit Casing Color Compressor Refrigerant Dil Refrigerant	Type Model Motor Output Type Charge H SL	L kg	Ivory Hermetically Se 1YC2: 6 FVC 0.: R-4 33.5 (1,183) 30.1 (1,063)	White aled Swing Type 3AEXD 00 250K 375 10A 05 30.2 (1,066) 25.6 (904)	Ivory Hermetically Sea 1YC23 60 FVC 0.3 R-4 1.1 33.5 (1,183) 30.1 (1,063)	White aled Swing Type 3AEXD 20 550K 375 10A 05 30.2 (1,066) 25.6 (904)	
Dutdoor Unit Casing Color Compressor Refrigerant Dil Refrigerant Lirflow Rate	Type Model Motor Output Type Charge H SL Type	L kg m³/min (cfm)	Ivory Hermetically Se 1YC2: 6 FVC 0.: R-4 33.5 (1,183) 30.1 (1,063) Prop	White aled Swing Type 3AEXD 00 250K 375 10A 05 30.2 (1,066) 25.6 (904) oeller	Ivory Hermetically Sea 1YC23 60 FVC 0.3 R-4 1.1 33.5 (1,183) 30.1 (1,063) Prop	White aled Swing Type 3AEXD 20 550K 375 10A 05 05 30.2 (1,066) 25.6 (904) weller	
Dutdoor Unit Casing Color Compressor Refrigerant Dil Refrigerant ivirflow Rate	Type Model Motor Output Type Charge H SL Type Motor Output	L kg m³/min	Ivory Hermetically Se 1YC2: 6 FVC 0.: R-4 1. 33.5 (1,183) 30.1 (1,063) Prop	White aled Swing Type 3AEXD 00 250K 375 110A 05 30.2 (1,066) 25.6 (904) celler 23	Ivory Hermetically Sea 1YC23 60 FVC 0.3 R-4 1. 33.5 (1,183) 30.1 (1,063) Prop 2	White aled Swing Type 3AEXD 20 550K 375 10A 05 30.2 (1,066) 25.6 (904) weller 3	
Dutdoor Unit Casing Color Compressor Refrigerant Dil Refrigerant arflow Rate Canning Curre	Type Model Motor Output Type Charge Type Charge H SL Type Motor Output ent (Rated)	L kg m³/min (cfm)	Ivory Hermetically Se 1YC2: 6 FVC 0.: R-4 1. 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82	White aled Swing Type 3AEXD 00 250K 375 110A 05 30.2 (1,066) 25.6 (904) celler 23 4.28 - 4.09 - 3.99	Ivory Hermetically Sec 1YC23 60 FVC 0.3 R-4 1.1 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82	White aled Swing Type 3AEXD 20 50K 375 10A 05 30.2 (1,066) 25.6 (904) veller 3 4.28 - 4.09 - 3.99	
Dutdoor Unit Dasing Color Compressor Refrigerant Dil Refrigerant Lirflow Rate Can Lunning Curre	Type Model Motor Output Type Charge H SL Type Motor Output	L kg m³/min (cfm) W	Ivory Hermetically Se 1YC2: 6 FVC 0.: R-4 1. 33.5 (1,183) 30.1 (1,063) Prop	White aled Swing Type 3AEXD 00 250K 375 110A 05 30.2 (1,066) 25.6 (904) celler 23	Ivory Hermetically Sea 1YC23 60 FVC 0.3 R-4 1. 33.5 (1,183) 30.1 (1,063) Prop 2	White aled Swing Type 3AEXD 20 550K 375 10A 05 30.2 (1,066) 25.6 (904) weller 3	
Dutdoor Unit Dasing Color Compressor Refrigerant Dil Refrigerant Lefrigerant Lirflow Rate Can Lunning Curre Tower Consur	Type Model Motor Output Type Charge Type Charge H SL Type Motor Output ent (Rated)	L kg m³/min (cfm) W A	Ivory Hermetically Se 1YC2: 6 FVC 0.: R-4 1. 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82	White aled Swing Type 3AEXD 00 250K 375 110A 05 30.2 (1,066) 25.6 (904) celler 23 4.28 - 4.09 - 3.99	Ivory Hermetically Sec 1YC23 60 FVC 0.3 R-4 1.1 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82	White aled Swing Type 3AEXD 20 50K 375 10A 05 30.2 (1,066) 25.6 (904) veller 3 4.28 - 4.09 - 3.99	
Dutdoor Unit Easing Color Compressor Defrigerant Dil Aefrigerant Liflow Rate Can Lunning Curre Tower Consur Tower Factor	Type Model Motor Output Type Charge Type Charge H SL SL Type Motor Output ant (Rated) mption (Rated)	L M ⁹ /min (cfm) W A W	Ivory Hermetically Se 1YC23 6 FVC 0.3 R-4 1. 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82 542 - 542 - 542 79.2 - 80.7 - 80.1	White aled Swing Type 3AEXD 00 250K 375 110A 05 30.2 (1,066) 25.6 (904) peller 23 4.28 - 4.09 - 3.99 756 - 756 - 756	Ivory Hermetically Sea 1YC23 60 FVC 0.3 R-4 1.1 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82 542 - 542 - 542 79.2 - 80.7 - 80.1	White aled Swing Type 3AEXD 50 50K 375 10A 05 30.2 (1,066) 25.6 (904) veller 3 4.28 - 4.09 - 3.99 756 - 756 - 756	
Autoor Unit Easing Color Compressor Aefrigerant Jil Aefrigerant Lirflow Rate Can Aunning Curre Tower Consur Tower Factor tarting Curre	Type Model Motor Output Type Charge Charge H SL Type Motor Output ent (Rated) mption (Rated)	L M ³ /min (cfm) W A W A W % A	Ivory Hermetically Se 1YC2: 6 FVC 0.: 8 R-4 1. 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82 542 - 542 79.2 - 80.7 - 80.1 4	White aled Swing Type 3AEXD 00 250K 375 110A 05 25.6 (904) celler 23 4.28 - 4.09 - 3.99 756 - 756 - 756 80.3 - 80.4 - 79.0	Ivory Hermetically Sea 1YC23 66 FVC 0.3 R-4 1.1 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82 542 - 542 - 542 79.2 - 80.7 - 80.1 4	White aled Swing Type 3AEXD 300 550K 375 10A 05 30.2 (1,066) 25.6 (904) veller 3 4.28 - 4.09 - 3.99 756 - 756 - 756 80.3 - 80.4 - 79.0 4	
Dutdoor Unit Compressor Compressor Refrigerant Dil Refrigerant Lirflow Rate Compressional Curre Cower Consul Cower Factor Starting Curre Dimensions (H	Type Model Motor Output Type Charge H SL Type Motor Output ent (Rated) mption (Rated) nt t × W × D)	L M ³ /min (cfm) W A W % A M M M	Ivory Hermetically Se 1YC2: 6 FVC 0.: 8 R-4 1. 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82 542 - 542 - 542 79.2 - 80.7 - 80.1 4 550 × 7	White aled Swing Type 3AEXD 00 250K 375 110A 005 30.2 (1,066) 25.6 (904) peller 23 4.28 - 4.09 - 3.99 756 - 756 - 756 80.3 - 80.4 - 79.0 .4 65 × 285	Ivory Hermetically Sea 1YC23 60 FVC 0.3 R-4 1.1 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82 542 - 542 - 542 79.2 - 80.7 - 80.1 4 550 × 76	White aled Swing Type 3AEXD 200 250K 375 10A 05 30.2 (1,066) 25.6 (904) veller 3 4.28 - 4.09 - 3.99 756 - 756 - 756 80.3 - 80.4 - 79.0 .4 35 × 285	
Dutdoor Unit Casing Color Compressor Refrigerant Dil Refrigerant irflow Rate ian Running Curre Tower Consur Yower Factor Starting Curre Dimensions (H Packaged Din	Type Model Motor Output Type Charge H SL Type Motor Output ent (Rated) mption (Rated) nt H × W × D) mensions (H × W × D)	L kg m³/min (cfm) W A W % A M M M M mm	Ivory Hermetically Se 1YC2: 6 FVC 0.: R-4 1. 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82 542 - 542 - 542 79.2 - 80.7 - 80.1 4 550 × 7 612 × 9	White aled Swing Type 3AEXD 00 250K 375 10A 05 30.2 (1,066) 25.6 (904) celler 23 4.28 - 4.09 - 3.99 756 - 756 - 756 80.3 - 80.4 - 79.0 .4 65 × 285 06 × 364	Ivory Hermetically Sea 1YC23 60 FVC 0.3 R-4 1.1 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82 542 - 542 - 542 79.2 - 80.7 - 80.1 4 550 × 76 612 × 90	White aled Swing Type 3AEXD 30 250K 375 10A 05 30.2 (1,066) 25.6 (904) veller 3 4.28 - 4.09 - 3.99 756 - 756 - 756 80.3 - 80.4 - 79.0 .4 35 × 285 06 × 364	
Compressor Compressor Refrigerant Dil Refrigerant Arflow Rate Fan Running Curre Power Consur Power Consur Power Consur Consur Comer Factor Starting Curre Starting Curre Dimensions (H Fackaged Din Veight (Mass	Type Model Motor Output Type Charge Type Charge H SL Type Motor Output ent (Rated) mption (Rated) nt 1 × W × D) nensions (H × W × D))	L kg m³/min (cfm) W A W % A M % A mm mm kg	Ivory Hermetically Se 1YC2: 6 FVC 0.: R-4 1. 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82 542 - 542 - 542 79.2 - 80.7 - 80.1 4 550 × 7 612 × 9	White aled Swing Type 3AEXD 00 250K 375 100A 05 30.2 (1,066) 25.6 (904) beller 23 4.28 - 4.09 - 3.99 756 - 756 - 756 80.3 - 80.4 - 79.0 .4 65 × 285 06 × 364 34	Ivory Hermetically Sea 1YC23 66 FVC 0.3 R-4 1.1 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82 542 - 542 - 542 79.2 - 80.7 - 80.1 4 550 × 76 612 × 90 3	White aled Swing Type 3AEXD 30 250K 375 10A 05 30.2 (1,066) 25.6 (904) veller 3 4.28 - 4.09 - 3.99 756 - 756 - 756 80.3 - 80.4 - 79.0 4 35 × 285 06 × 364	
Dutdoor Unit Casing Color Compressor Refrigerant Dil Refrigerant Airflow Rate Fan Running Curre Power Consur Power Consur Power Consur Power Consur Dimensions (h Packaged Din Veight (Mass) Gross Weight	Type Model Motor Output Type Charge H SL Type Motor Output ent (Rated) mption (Rated) nt H × W × D) mensions (H × W × D)	L kg m³/min (cfm) W A W % A M M M M mm	Ivory Hermetically Se 1YC2: 6 FVC 0.: R-4 1. 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82 542 - 542 - 542 79.2 - 80.7 - 80.1 4 550 × 7 612 × 9	White aled Swing Type 3AEXD 00 250K 375 10A 05 30.2 (1,066) 25.6 (904) celler 23 4.28 - 4.09 - 3.99 756 - 756 - 756 80.3 - 80.4 - 79.0 .4 65 × 285 06 × 364	Ivory Hermetically Sea 1YC23 66 FVC 0.3 R-4 1.1 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82 542 - 542 - 542 79.2 - 80.7 - 80.1 4 550 × 76 612 × 90 3	White aled Swing Type 3AEXD 30 250K 375 10A 05 30.2 (1,066) 25.6 (904) veller 3 4.28 - 4.09 - 3.99 756 - 756 - 756 80.3 - 80.4 - 79.0 .4 35 × 285 06 × 364	
Power Factor Starting Curre Dimensions (H Packaged Dim Veight (Mass)	Type Model Motor Output Type Charge Type Charge H SL Type Motor Output ent (Rated) mption (Rated) nt 1 × W × D) nensions (H × W × D))	L kg m³/min (cfm) W A W % A M % A mm mm kg	Ivory Hermetically Se 1YC2: 6 FVC 0.: R-4 1. 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82 542 - 542 - 542 79.2 - 80.7 - 80.1 4 550 × 7 612 × 9	White aled Swing Type 3AEXD 00 250K 375 100A 05 30.2 (1,066) 25.6 (904) beller 23 4.28 - 4.09 - 3.99 756 - 756 - 756 80.3 - 80.4 - 79.0 .4 65 × 285 06 × 364 34	Ivory Hermetically Sea 1YC23 66 FVC 0.3 R-4 1.1 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82 542 - 542 - 542 79.2 - 80.7 - 80.1 4 550 × 76 612 × 90 3	White aled Swing Type 3AEXD 30 250K 375 10A 05 30.2 (1,066) 25.6 (904) veller 3 4.28 - 4.09 - 3.99 756 - 756 - 756 80.3 - 80.4 - 79.0 4 35 × 285 06 × 364	
avidoor Unit asing Color compressor defrigerant inflow Rate an dunning Curre imensions (H ackaged Dim /eight (Mass) irross Weight ound ressure	Type Model Motor Output Type Charge Type Charge H SL Type Motor Output ent (Rated) mption (Rated) nt H × W × D) rensions (H × W × D) (Gross Mass)	L kg M ³ /min (cfm) W A W A W A M M M Kg kg	Ivory Hermetically Se 1YC2: 6 FV(0.3 R-4 1. 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82 542 - 542 79.2 - 80.7 - 80.1 4 550 × 7 612 × 9 3 3	White aled Swing Type 3AEXD 00 250K 375 110A 005 25.6 (904) celler 23 4.28 - 4.09 - 3.99 756 - 756 - 756 80.3 - 80.4 - 79.0 .4 65 × 285 06 × 364 34	Ivory Hermetically Sea 1YC25 60 FVC 0.3 R-4 1.1 33.5 (1,183) 30.1 (1,063) Prop 2 3.11 - 2.92 - 2.82 542 - 542 - 542 79.2 - 80.7 - 80.1 4 550 × 76 612 × 90 3 3	White aled Swing Type 3AEXD 30 50K 375 10A 05 30.2 (1,066) 25.6 (904) veller 3 4.28 - 4.09 - 3.99 756 - 756 - 756 80.3 - 80.4 - 79.0 .4 35 × 285 06 × 364 4 8	

Note:

■ The data are based on the conditions shown in the table below.

ľ	The data are based on the co Cooling	nditions shown in the table belo Heating	w. Piping Length	T	Conversion Formulae
Ì	Indoor ; 27°CDB / 19°CWB Outdoor ; 35°CDB / 24°CWB	Indoor ; 20°CDB	5 m		$kcal/h = kW \times 860$ Btu/h = kW × 3412
				-	$cfm = m^3/min \times 35.3$

Dubbor Unit Cooling Heating Cooling Heating Ciganay Buh 35.51(1-3.38) 40.1(1-4.50) 35.71(4-3.68) 40.1(1-4.50) Bible J(Mn - Max) Buh 5.15(1-3.38) 40.1(1-4.50) 35.01(4-3.68) 13.000 (4800 - 17.00) Bible J(Mn - Max) Mitol Science J(1-200 - 3.270) 3.440 (1200 - 4.20) 30.00 (1200 - 3.270) 3.460 (1200 - 4.20) Parter Fator % 78.3 - 80.6 - 80.6 80.4 - 812 - 80.9 78.3 - 80.6 - 80.8 80.4 - 812 - 80.9 Parter Fator % 78.3 - 80.6 - 80.6 80.4 - 812 - 80.9 78.3 - 80.6 - 80.8 80.4 - 812 - 80.9 Parter Fator % 78.3 - 80.6 - 80.6 80.4 - 812 - 80.9 98.1 - 80.1 40.4 (4.38 - 3.33) 39.3 (38.9 - 3.11) 40.4 (4.38 - 3.35) Parter Fator m 0.10 - 20 - 18.0 9.0 - 12.00 9.0 - 12.00 10.0 - 7.00 10.0 - 7.00 10.0 - 7.00 10.0 - 7.00 10.0 - 7.00 10.0 - 7.00 10.0 - 7.00 10.0 - 7.00 10.0 - 7.00 10.0 - 7.00 10.0 - 7.00 10.0 - 7.00 10.0 - 7.00 10.0 - 7.00 10.0 - 7.00 <		Indoor Unit		FTXG35	5JV1BW	FTXG35JV1BS		
U Cooling Heating Cooling Heating Cooling Heating Capaby Bit 11 (360.01 (43.0.3) 30.01 (14.0.3) 13.36 (14.	Models	Outdoor Unit		RXG35	J2V1B	RXG35	5J2V1B	
Buth 11.900 (4800 - 13000) 13.800 (4800 - 1300) 13.800 (4800 - 1300) 13.800 (4800 - 1200) 13.800 (4800 - 1200) 13.800 (4800 - 1200) 13.800 (4800 - 1200) 13.800 (4800 - 1200) 13.800 (4800 - 1200) 13.800 (4800 - 1200) 13.800 (4800 - 1200) 13.800 (4800 - 1200) 13.800 (4800 - 1200) 13.800 (4800 - 1200) 13.800 (4800 - 1200) 13.800 (4800 - 1200) 13.800 (4800 - 1200) 13.800 (4800 - 1200) 13.800 (4800 - 1200) 13.800 (4800 - 1200) 13.800 (4800 - 1200) 13.800 (4800 - 1200) 13.800 (480 - 120		Outdoor Unit	Ī	Cooling	Heating	Cooling	Heating	
Baled (Mn Max.) Buth Buth Disk Disk <thdisk< th=""> Disk Disk<td>Canaaitu</td><td></td><td>kW</td><td>3.5 (1.4 ~ 3.8)</td><td>4.0 (1.4 ~ 5.0)</td><td>3.5 (1.4 ~ 3.8)</td><td>4.0 (1.4 ~ 5.0)</td></thdisk<>	Canaaitu		kW	3.5 (1.4 ~ 3.8)	4.0 (1.4 ~ 5.0)	3.5 (1.4 ~ 3.8)	4.0 (1.4 ~ 5.0)	
Reading Autor (1200 - 1270) 3.446 (1200 - 4.300) 3.010 (1200 - 1270) 3.010 (1200 - 1270) 3.010 (1200 - 1270) 3.010 (1200 - 1270) 3.010 (1200 - 1270) 9.00 (300 - 1220) 9.00 (300 - 1200) 9.00 (Bated (Min ~	Max)	Btu/h	11,900 (4,800 ~ 13,000)		11,900 (4,800 ~ 13,000)	13,600 (4800 ~ 17,100)	
Paper Consumption W 680 (380 - 1.20) 990 (380 - 1.20) 990 (380 - 1.20) 990 (380 - 1.20) 990 (380 - 1.20) 990 (380 - 1.20) 990 (380 - 1.20) 990 (380 - 1.20) 990 (380 - 1.20) 990 (380 - 1.20) 990 (380 - 1.20) 990 (380 - 1.20) 990 (380 - 1.20) 990 (380 - 1.20) 990 (380 - 1.20) 990 (380 - 1.20) 990 (380 - 1.20) 990 (380 - 1.20) 900 (380 - 1.20) <	,		kcal/h	3,010 (1,200 ~ 3,270)	3,440 (1,200 ~ 4,300)	3,010 (1,200 ~ 3,270)	3,440 (1,200 ~ 4,300)	
Bated (Min - Max,) Pri 080 (SoU - 1.20.) 980 (S			А	5.1 - 4.8 - 4.6	5.6 - 5.3 - 5.1	5.1 - 4.8 - 4.6	5.6 - 5.3 - 5.1	
Hand Joint - Next, J % 793 - 806 - 806 80.4 - 81.2 - 80.3 79.3 - 80.5 - 80.6 80.4 - 81.2 - 80.1 Parting Transing (COP) Heard (Min, Max, J) WW 3.53 (3.89 - 3.11) 4.04 (4.38 - 3.33) 3.93 (3.89 - 3.11) 4.04 (4.38 - 3.33) Parting Control (Min, Max, J) WW 3.53 (3.89 - 3.11) 4.04 (4.38 - 3.33) 3.93 (3.89 - 3.11) 4.04 (4.38 - 3.33) Parting Control (Min, Max, J) Min 0.45 0.64 0.55 0.90 0.95 Max Internal High Dirg Lingth m 0.10 10 10 10 10 Arrow of Additional Charge of m 10.1 (357) 10.8 (381) 9.1 (382) 8.6 (304) Arrow of Additional Charge of m None None None Silver None None Airdow Rab M m 10.1 (357) 10.8 (381) 9.1 (383) 5.6 (198) 3.8 (159) 5.6 (198) 3.8 (159) 5.6 (198) 3.8 (159) 5.6 (198) 3.8 (159) 5.6 (198) 3.8 (159) 5.6 (198) 3.8 (159) 5.6 (198) 3.8 (159) 5.6 (198) <t< td=""><td>Power Consur</td><td>nption</td><td>w</td><td>890 (360 ~ 1 220)</td><td>990 (320 ~ 1 500)</td><td>890 (360 ~ 1 220)</td><td>990 (320 ~ 1.500)</td></t<>	Power Consur	nption	w	890 (360 ~ 1 220)	990 (320 ~ 1 500)	890 (360 ~ 1 220)	990 (320 ~ 1.500)	
EEP (Cooling) (COP Pleating) W/W 8.98 (3.89 - 3.11) 4.04 (4.36 - 3.33) 3.93 (3.89 - 3.11) 4.04 (4.38 - 3.33) Plong Drain Imm 0 6.4 0 6.4 0 6.4 Connections Drain Imm 0 6.15 or 6 16.0 6 16.0 or 6 16.0 6 16.0 or 6 16.0 Maint Insulation Boh Liquid and Case Ppas Boh Liquid and Case Ppas Boh Liquid and Case Ppas Maint Insulation m 20 20 20 Maint Insulation m 20 20 20 Maint Insulation m 10 10 10 Appoint OXP FTXGSSXVIBW FTXGSSXVIBS Finder Unit FTXGSSXVISW FTXGSSXVISS Anthow Rate M mm/min 4.6 (62) 6.4 (226) 4.6 (162) 6.4 (226) Site 3 (130) 5 (150,01) 30.1 (357) 10.8 (361) 10.1 (357) 10.8 (361) Trice Maint Site Site Site Site Site Arrow Cols Site Site Site Site		Max.)		(, ,	(, , ,	(<i>, , , ,</i>		
Balad (Mn - Max,) White Case (2.88 - 3.1) Connection Case (2.88 - 3.1) Connection Gas mm 0.6.4 0.6.4 0.6.4 0.6.4 Connection Gas mm 0.6.4 0.6.4 0.6.4 Main mm 0.6.5 0.9.5 0.9.5 0.9.5 Main mm 0.16.0 or 16.0 0.16.0 or 9.8.0 0.0.1 0.0.1 Main mm 0.0 1.0 0.0 0.0 0.0 Main mm 0.0 1.0 1.0 0.0 0.0 0.0 Main mm 10.1 (357) 10.8 (381) 10.1 (357) 10.8 (381) 10.1 (357) 10.8 (381) Front Panel Color White Store Store 6.0304 7.3 (258) 8.6 (304) 7.3 (258) 8.6 (304) 7.3 (258) 8.6 (304) 1.0 (357) 10.3 (351) 10.1 (357) 10.3 (351) 10.1 (357) 10.3 (351) 10.1 (357) 10.3 (351) 10.1 (357) 10.3 (350) 5.6 (198)			%	79.3 - 80.6 - 80.6	80.4 - 81.2 - 80.9	79.3 - 80.6 - 80.6	80.4 - 81.2 - 80.9	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	EER (Cooling) Bated (Min ~) / COP (Heating) Max)	W/W	3.93 (3.89 ~ 3.11)	4.04 (4.38 ~ 3.33)	3.93 (3.89 ~ 3.11)	4.04 (4.38 ~ 3.33)	
Bing Gas mm é 9.5 é 9.5 Heat Insulaton Both Liquid and Gas Pipes Both Liquid and Gas Pipes Both Liquid and Gas Pipes Max. Interrunt Pring Length m 15 15 Chargless m 10 10 Annount of Additional Charge of Reingenant m 10 10 Annount of Additional Charge of Reingenant m 10.3 (881) 10.1 (1357) 0.8 (881) Indoor Unit FTXGGS/VIBW FTXGGS/VIBW FTXGGS/VIBS FTXGGS/VIBS Indoor Onit To (1357) 10.8 (381) 10.1 (1357) 0.8 (381) L (clm) 4.6 (162) 6.4 (226) 4.6 (162) 6.6 (304) L (clm) 4.6 (162) 6.4 (226) 4.6 (162) 6.6 (304) Type Cross Flow Fran			mm	φĘ	34		54	
Online Imm 6 16.0 or 6 18.0 4 16.0 or 6 18.0 Max. Herrum Heiping Length m 20 20 Max. Merrum Heiping Length m 10 10 Chargeles m 10 10 Annot of Additional Charge of Perforg and Color m 10 20 Max. Herum Heiping Length m 10 10 Annot of Additional Charge of Perforg and Color m 10.1 (357) 10.8 (381) 10.1 (357) 10.8 (381) Front Panal Color Mill m'm'min 7.3 (258) 8.6 (304) 7.3 (258) 8.6 (304) Airlow Rate M m'm'min 7.3 (258) 8.6 (304) 7.3 (258) 8.6 (304) Type Cross Flow Fan Cross Flow Fan Cross Flow Fan Cross Flow Fan Final Bioditro Additro Addit	Piping							
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Max. Interunt Height Difference m 15 15 Arround r Additional Charge of Refrigorant g/m 20 20 Indoor Unit FTXG3S/VIBW FTXG3S/VIBW FTXG3S/VIBW Forth Panel Colr While Silver Silver Silver Arround r Additional Charge of Refrigorant M m* 10.3 (331) 10.1 (357) 10.8 (381) Arround r Additional Charge of Refrigorant M m* 10.3 (357) 10.8 (381) 10.1 (357) 10.8 (381) Arround r Additional Charge of Refrigorant M m* 10.1 (357) 10.8 (381) 10.1 (357) 10.8 (381) Arround r Additional Charge of Refrigorant M 10.5 (37) 10.8 (381) 10.1 (357) 10.8 (381) Arround r Additional Charge of Refrigorant M 10.1 (357) 10.8 (381) 10.1 (357) 10.8 (381) Arround r Additional Charge of Refrigorant M 0.1 (357) 10.8 (381) 10.1 (357) 10.8 (381) Arround r Additional Charge of Refrigorant Arround r Additional Charge of Refrigorant M 282 282 28	Max. Interunit	Piping Length	m					
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Antion Hate L (cfm) 4.6 (f82) 6.4 (226) 4.6 (f82) 6.4 (226) SL 3.9 (138) 5.6 (198) 3.9 (138) 5.6 (198) 3.9 (138) 5.6 (198) Fan Type Cross Flow Fan Cross Flow Fan 29 29 29 Air Direction Control WW 29 29 28 29 28 Air Direction Control Right, Left, Horizontal, Downward Fight, Left, Horizontal, Downward Right, Left, Horizontal, Downward <								
L (cm) 4.6 (162) 6.4 (226) 4.6 (162) 6.4 (226) SL 3.9 (138) 5.6 (199) 3.9 (138) 5.6 (199) 3.9 (138) 5.6 (199) Type Cross Row Fan Cross Row Fan Cross Row Fan Cross Row Fan Ar Drection Control Steps, Quiet, Auto 5.5 teps, Quiet, Auto 5.5 teps, Quiet, Auto 5.5 teps, Quiet, Auto Ar Drection Control Rennovable / Mashable / Midow Proof Rennovable / Mashable / Midow Proof Renovable / Mashable / Midow Proof Power Consumption (Rated) A 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.12 Power Charuption (Rated) W 26 - 26 28 - 32 - 32 28 - 26 - 26 32 - 32 - 32 Power Charuption (Rated) M 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.12 Dimensions (H × W × D) mm 282 × 90.5 × 915 × 155 290 × 915 × 155 290 × 915 × 155 Packaged Dimensions (H × W × D) mm 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 Weight (Mass) kg	Airflow Rate			. ,	· · · /		· · · · ·	
Type Cross Flow Fan Cross Flow Fan Fan Motor Output W 29 29 Speed Steps 5 Steps, Quiet, Auto 5 Steps, Quiet, Auto 5 Steps, Quiet, Auto Air Direction Control Removable / Washable / Middew Proof Removable / Washable / Middew Proof Removable / Washable / Middew Proof Running Current (Rated) A 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 Power Fastor % 90.9 - 94.2 - 90.3 90.9	. annow i late	-	(cfm)				,	
Fan Médror Output W 29 29 Speed Steps Steps, Quiet, Auto Steps, Quiet, Auto Steps, Quiet, Auto Air Direction Control Removable (Washable / Midew Proof Removable / Washable / Midew Proof Removable / Washable / Midew Proof Running Current (Rated) A 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 Power Foador % 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 Power Foador % 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 Temperature Control Microcomputer Control Microcomputer Control Microcomputer Control Dimensions (H × W × D) mm 285 × 105.0 × 915 × 155 285 × 915 × 155 285 × 915 × 155 Rockaged Dimensions (H × W × D) mm 285 × 10.00 × 377 285 × 1.003 × 377 285 × 1.003 × 377 Rockaged Dimensions (H × W × D) mm 285 × 10.5 × 155 285 × 915 × 155 285 × 915 × 155 Rockaged Dimensions (H × W × D) mm 285 × 10.0 × 377 285 × 1.003 × 377		-		. ,	· · · /			
Speed Steps 5 Steps. Ouiet, Auto 5 Steps. Ouiet, Auto Air Direction Control Right, Left, Horizontal, Downward Right, Left, Horizontal, Downward Removable / Washable / Mildew Proof Removable / Washable / Mildew Proof Running Current (Rated) A 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 Power Factor % 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 90.9 - 94.2 - 90.3 90.9 - 94.2		71				Cross F	low Fan	
Air Direction Control Flight Left, Horizontal, Downward Flight Left, Horizontal, Downward Air Filter Removable / Middew Proof Removable / Middew Proof Removable / Middew Proof Air Filter Removable / Middew Proof Removable / Middew Proof Removable / Middew Proof Power Consumption (Reted) W 26 - 26 - 26 32 - 32 - 32 26 - 26 - 26 32 - 32 - 32 Power Fador % 90.9 - 92.8 - 95.2 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 Temperature Control Microcomputer Control Microcomputer Control Microcomputer Control Microcomputer Control Dimensions (H × W × D) mm 285 × 151 × 155 285 × 103 × 377 285 × 103 × 377 285 × 103 × 377 285 × 103 × 377 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 <td>Fan</td> <td>Motor Output</td> <td>W</td> <td>2</td> <td>9</td> <td></td> <td></td>	Fan	Motor Output	W	2	9			
Air Filter Pernovable / Washable / Mildew Proof Pernovable / Washable / Mildew Proof Running Current (Rated) A 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 Power Consumption (Rated) W 26 - 26 - 26 32 - 32 - 32 26 - 26 - 26 32 - 32 - 32 26 - 26 - 26 32 - 32 - 32 90.9 - 94.2 - 90.3 <td< td=""><td></td><td></td><td>Steps</td><td></td><td></td><td></td><td></td></td<>			Steps					
Bunning Current (Rated) A 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 Power Consumption (Rated) W 26 - 26 - 26 32 - 32 - 32 26 - 26 - 26 32 - 32 - 32 Dewer Factor % 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 Temperature Control Microcomputer Control Microcomputer Control Microcomputer Control Dimensions (H × W × D) mm 285 × 1.003 × 377 285 × 1.003 × 377 285 × 1.003 × 377 Weight (Gross Mass) kg 11 11 11 11 Gross Weight (Gross Mass) kg 15 16 16 Sound H / M / L / SL dB(A) 42 / 34 / 26 / 23 42 / 36 / 29 / 26 42 / 34 / 26 / 23 42 / 36 / 29 / 26 Outdoor Unit RXG35J2V1B RXG35J2V1B Nory White	Air Direction Control			0, ,		. .		
Power Consumption (Rated) W 26-26-26 32-32-32 26-26-26 32-32-32 Power Factor % 90.9-94.2-90.3 90.9-92.8-95.2 90.9-94.2-90.3 90.9-92.8-95.2 Temperature Control Microcomputer Control Microcomputer Control Microcomputer Control Dimensions (H × W × D) mm 285 × 915 × 155 296 × 915 × 155 296 × 915 × 155 Packaged Dimensions (H × W × D) mm 285 × 1003 × 377 285 × 1.003 × 377 285 × 1.003 × 377 Veight (Mass) kg 11 11 11 Gross Weight (Gross Mass) kg 15 16 Sound Power Level dB 58 58 58 Outdoor Unit RXG352V1B RXG352V1B RXG352V1B Casing Color Compressor Model 1/YC23AEXD 1/YC23AEXD 1/YC23AEXD 1/YC23AEXD Charge L 0.375 0.375 0.375 Refrigerant Type R-410A R-410A R-410A Refrigerant Type R-410A R-410A <td< td=""><td>Air Filter</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Air Filter							
Power Factor % 90.9 - 94.2 - 90.3 90.9 - 94.2 - 90.3 90.9 - 94.2 - 90.3 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 Temperature Control Microcomputer Control Microcomputer Control Microcomputer Control Microcomputer Control Dimensions (H × W × D) mm 295 × 915 × 155 295 × 155 295 × 155 Grass Weight (Kass) kg 11 11 285 × 1,003 × 377 Weight (Kass) kg 15 16 Sound Pressure H / M / L / SL dB(A) 42 / 34 / 26 / 23 42 / 36 / 29 / 26 42 / 34 / 26 / 23 42 / 36 / 29 / 26 Sound Pressure H / M / L / SL dB 58 58 58 58 Outdoor Unit B RXG3sJ2V1B RXG3sJ2V1B RXG3sJ2V1B RXG3sJ2V1B Compressor Type Hermetically Sealed Swing Type Hermetically Sealed Swing Type 17C23AEXD 17C23AEXD Motor Output W 600 600 600 Refrigerant Type R+410A R+410A R+410A Fand Type	Running Curre	ent (Rated)		0.13 - 0.12 - 0.12		0.13 - 0.12 - 0.12	0.16 - 0.15 - 0.14	
Temperature Control Microcomputer Control Microcomputer Control Dimensions (H × W × D) mm 295 x 915 x 155 295 x 915 x 155 Packaged Dimensions (H × W × D) mm 285 x 10.3 x 377 285 x 10.3 x 377 Weight (Klass) kg 11 11 11 Gross Weight (Gross Mass) kg 15 16 30.3 x 377 Sound Pressure H / M / L / SL dB(A) 42 / 34 / 26 / 23 42 / 36 / 29 / 26 42 / 34 / 26 / 23 42 / 36 / 29 / 26 Sound Pressure H / M / L / SL dB(A) 42 / 34 / 26 / 23 42 / 36 / 29 / 26 42 / 34 / 26 / 23 42 / 36 / 29 / 26 Sound Prower Level dB 58 58 58 58 58 Costing Color Intor RXG35L2V1B RXG35L2V1B RXG35L2V1B RXG35L2V1B Compressor Type Hermetically Sealed Swing Type Hermetically Sealed Swing Type 17C23AEXD 17C23AEXD 17C23AEXD Charge L 0.375 0.375 0.375 1.05 1.05 1.05 1.05	Power Consur	mption (Rated)	W	26 - 26 - 26	32 - 32 - 32	26 - 26 - 26	32 - 32 - 32	
Dimensions (H × W × D) mm 295 × 915 × 155 296 × 915 × 155 Packaged Dimensions (H × W × D) mm 285 × 1.003 × 377 288 × 1.003 × 377 Weight (Mass) kg 11 11 11 Gross Weight (Gross Mass) kg 15 16 16 Sound H / M / L / SL dB(A) 42 / 34 / 26 / 23 42 / 36 / 29 / 26 42 / 34 / 26 / 23 42 / 36 / 29 / 26 Sound Pressure H / M / L / SL dB(A) 42 / 34 / 26 / 23 42 / 36 / 29 / 26 42 / 34 / 26 / 23 42 / 36 / 29 / 26 Sound Pressure H / M / L / SL dB(A) 42 / 34 / 26 / 23 42 / 36 / 29 / 26 42 / 34 / 26 / 23 42 / 36 / 29 / 26 Sound Power Level dB 58 58 58 58 58 Casing Color Itoror White Ivory White Ivory White Ivory White Ivory White Compressor Model 11 YC23AEXD 11 YC23AEXD 1YC23AEXD 1YC23AEXD Charge L 0.375 0.375 0.375 0.375 Type	Power Factor		%	90.9 - 94.2 - 90.3	90.9 - 92.8 - 95.2	90.9 - 94.2 - 90.3	90.9 - 92.8 - 95.2	
Packaged Dimensions (H × W × D) mm 285 × 1,003 × 377 285 × 1,003 × 377 Weight (Mass) kg 11 11 11 Gross Weight (Gross Mass) kg 15 16 Sound Kg 15 16 Sound Pressure Level H / M / L / SL dB(A) 42 / 34 / 26 / 23 42 / 36 / 29 / 26 Sound Power Level dB 58 58 58 58 Outdoor Unit RXG35J2V1B RXG35J2V1B RXG35J2V1B RXG35J2V1B Casing Color Ivory White Ivory White Ivory White Ivory White Compressor Type Hermetically Sealed Swing Type Hermetically Sealed Swing Type 1YC23AEXD Congrege L 0.375 0.375 0.375 Refrigerant Type R410A R-410A R-410A Charge kg 1.05 1.05 1.05 Airtlow Rate H m ^{m/min} 36.0 (1,271) 30.2 (1.066) 36.0 (1,271) 30.2 (1.066) Running Current (Rated) <td< td=""><td></td><td></td><td></td><td>Microcomp</td><td>uter Control</td><td>Microcomp</td><td>uter Control</td></td<>				Microcomp	uter Control	Microcomp	uter Control	
Weight (Mass) kg 11 11 Gross Weight (Gross Mass) kg 15 16 Gross Weight (Gross Mass) kg 15 16 Sound Pressure H / M / L / SL dB(A) 42 / 34 / 26 / 23 42 / 36 / 29 / 26 Level dB 58 58 58 58 Sound Power Level dB 58 58 58 58 Casing Color Nory White Nory White Nory White Nory White Nory White Compressor Type Hermetically Sealed Swing Type Hermetically Sealed Swing Type Nory White Compressor Model 1YC23AEXD 1YC23AEXD 1YC23AEXD Motor Output W 600 600 600 Refrigerant Type FVC50K FVC50K 1YC23AEXD Charge L 0.375 0.375 1.05 SL (cfm) 30.1 (1.063) 25.6 (904) 30.1 (1.063) 25.6 (904) Fan Mype Propeller Propeller<			mm	295 × 9 ⁻	15 × 155	295 × 9	15 × 155	
Gross Weight (Gross Mass) kg 15 16 Sound Pressure Level H/M/L/SL dB(A) 42/34/26/23 42/36/29/26 42/34/26/23 42/36/29/26 Sound Pressure Level dB 58 58 58 58 Outdoor Unit RKG35J2V1B RKG35J2V1B RKG35J2V1B RKG35J2V1B Casing Color Nony White Nony White Nony White Nony White Compressor Model 1YC23AEXD 1YC23AEXD 1YC23AEXD Model 1YC23AEXD 0.375 0.375 Oil Charge L 0.375 0.375 Oil Type R410A R410A R410A Refrigerant Type R410A R410A 1.05 Airflow Rate H m ⁹ /min 36.0 (1.271) 30.2 (1.066) 36.0 (1.271) 30.2 (1.066) Fan Type Propeller Propeller Propeller Propeller Notor Output W 23 23 23 Running Current (Rated)<	Packaged Dim	nensions ($H \times W \times D$)	mm	285 × 1,0	003 × 377	285 × 1,0	003 × 377	
Sound Level H / M / L / SL dB(A) 42 / 34 / 26 / 23 42 / 36 / 29 / 26 42 / 34 / 26 / 23 42 / 36 / 29 / 26 Sound Power Level dB 58 58 58 58 58 Outdoor Unit RXG3SJ2V1B RXG3SJ2V1B RXG3SJ2V1B RXG3SJ2V1B Sound Power Level 1/2 / 26 / 23 42 / 36 / 29 / 26 Casing Color Ivory White Ivory White Ivory White Ivory White Ivory White Casing Color Ivory White Ivory White Ivory White Ivory White Ivory White Compressor Model 1Y22AAEXD 1Y22AAEXD 1Y22AAEXD 0.375 Ol Charge L 0.375 0.375 0.375 Refrigerant Type R410A R-410A R-410A Charge kg 0.01 (1.063) 25.6 (904) 30.1 (1.063) 22.6 (904) Airllow Rate H m ^m /min 36.0 (1.271) 30.2 (1.066) 36.0 (1.271) 30.2 (1.066) Fan Type Propeller Propeller	Weight (Mass)		kg	1	1	1	1	
Pressure Level H / M / L / SL dB(A) 42 / 34 / 26 / 23 42 / 36 / 29 / 26 42 / 34 / 26 / 23 42 / 36 / 29 / 26 Sound Power Level dB 58 58 58 58 58 Outdoor Unit RXG35J2V1B RXG35J2V1B RXG35J2V1B RXG35J2V1B Casing Color Ivory White Ivory White Ivory White Ivory White Compressor Type Hermetically Sealed Swing Type Hermetically Sealed Swing Type Model 1YC23AEXD 1YC23AEXD 1YC23AEXD Oil Type FVCS0K FVCS0K Charge L 0.375 0.375 Refrigerant Type R-410A R-410A SL (cfm) 30.0 (1,271) 30.2 (1,066) 36.0 (1,271) 30.2 (1,066) Fan Type Propeller Propeller Propeller Motor Output W 23 23 23 Running Current (Rated) A 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 <td>Gross Weight</td> <td>(Gross Mass)</td> <td>kg</td> <td>1</td> <td>5</td> <td>1</td> <td>6</td>	Gross Weight	(Gross Mass)	kg	1	5	1	6	
Outdoor Unit RXG35J2V1B RXG35J2V1B Casing Color Nory White Nory White Nory White Compressor Type Hermetically Sealed Swing Type Hermetically Sealed Swing Type Compressor Model 1YC23AEXD 1YC23AEXD Motor Output W 600 600 Refrigerant Type FVC50K FVC50K Charge L 0.375 0.375 Refrigerant Type R-410A R-410A Charge kg 1.05 1.05 Airflow Rate H m%min 36.0 (1,271) 30.2 (1,066) 36.0 (1,271) 30.2 (1,066) Fan Type Propeller Propeller 23 23 23 Running Current (Rated) A 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 Power Consumption (Rated) W 864 - 864 958 - 958 864 - 864 958 - 958 950 × 765 × 285 Power Consumption (Rated) W 864 - 864 - 958 - 958 55	Sound Pressure Level	H/M/L/SL	dB(A)	42 / 34 / 26 / 23	42 / 36 / 29 / 26	42 / 34 / 26 / 23	42 / 36 / 29 / 26	
Casing Color Ivory White Ivory White Ivory White Compressor Type Hermetically Sealed Swing Type Hermetically Sealed Swing Type Compressor Model 1YC23AEXD 1YC23AEXD Motor Output W 600 600 Refrigerant Oil Type FVC50K FVC50K Charge L 0.375 0.375 Refrigerant Type R-410A R-410A Charge kg 1.05 1.05 Airflow Rate H m ⁹ /min 36.0 (1,271) 30.2 (1,066) 36.0 (1,271) 30.2 (1,066) Fan Type Propeller 1.05 1.05 1.05 Running Current (Rated) A 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 Power Consumption (Rated) W 864 - 864 958 - 958 864 - 864 - 864 958 - 958 - 958 Power Factor % 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 Packaged Dimensions (H × W ×	Sound Power	Level	dB	58	58	58	58	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Outdoor Unit			RXG35	J2V1B	RXG35	J2V1B	
Model IYC23AEXD IYC23AEXD Motor Output W 600 600 Refrigerant Oil Type FVC50K FVC50K Charge L 0.375 0.375 Refrigerant Oil Type R-410A R-410A Airflow Rate H m*/min 36.0 (1.271) 30.2 (1.066) 36.0 (1.271) 30.2 (1.066) Airflow Rate H m*/min 36.0 (1.271) 30.2 (1.066) 36.0 (1.271) 30.2 (1.066) Fan Type Propeller Propeller Propeller Motor Output W 23 23 23 Running Current (Rated) A 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 Power Consumption (Rated) W 864 - 864 - 864 - 958 - 958 958 - 958 958 - 958 - 958 960 - 96	Casing Color			Ivory	White	Ivory	White	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		Туре		Hermetically Sea	aled Swing Type	Hermetically Sea	aled Swing Type	
Refrigerant Oil Type FVC50K FVC50K Refrigerant Oil Type 0.375 0.375 Refrigerant Arflow Rate Type R-410A R-410A Airflow Rate H m³/min SL 0.60 (1,271) 30.2 (1,066) 36.0 (1,271) 30.2 (1,066) Airflow Rate H m³/min SL 0.31 (1,063) 25.6 (904) 30.1 (1,063) 25.6 (904) Fan Type Propeller Propeller Propeller Motor Output W 23 23 Running Current (Rated) A 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 Power Consumption (Rated) W 864 - 864 958 - 958 864 - 864 - 864 958 - 958 Power Consumption (Rated) W 864 - 864 958 - 958 950 - 765 × 285 550 × 765 × 285 Dimensions (H × W × D) mm 550 × 765 × 285 550 × 765 × 285 560 × 765 × 285 Packaged Dimensions (H × W × D) mm 612 × 906 × 364 612 × 906 × 364 612 × 906 × 364 Weight (Mass) kg 38	Compressor	Model		1YC23	BAEXD	1YC23	BAEXD	
Oil Charge L 0.375 0.375 Refrigerant Type R-410A R-410A R-410A Airflow Rate H m%min (cfm) 36.0 (1,271) 30.2 (1,066) 36.0 (1,271) 30.2 (1,066) Airflow Rate H m%min (cfm) 36.0 (1,271) 30.2 (1,066) 36.0 (1,271) 30.2 (1,066) Fan Type Propeller Propeller Propeller Propeller Motor Output W 23 23 23 23 Running Current (Rated) A 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 Power Consumption (Rated) W 864 - 864 - 864 958 - 958 864 - 864 - 864 958 - 958 Power Factor % 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 Starting Current A 5.6 5.6 5.6 5.6 Dimensions (H × W × D) mm 612 × 906 × 364 612 × 906 × 364 612 × 906 × 364 Gross Weight (Gross Mass)		Motor Output	W	60	00	60	00	
Type Refrigerant Type Refrigerant Refrige	Refrigerant	Туре		FVC	50K	FVC	250K	
Herrigerant Charge kg 1.05 1.05 Airflow Rate H m ⁹ /min SL 36.0 (1,271) 30.2 (1,066) 36.0 (1,271) 30.2 (1,066) Fan Type Propeller Propeller Propeller 23 Running Current (Rated) A 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 Power Consumption (Rated) W 864 - 864 958 - 958 864 - 864 - 864 958 - 958 Power Factor % 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 Starting Current A 550 × 765 × 285 550 × 765 × 285 550 × 765 × 285 Dimensions (H × W × D) mm 550 × 765 × 285 550 × 765 × 285 550 × 765 × 285 Packaged Dimensions (H × W × D) mm 612 × 906 × 364 612 × 906 × 364 612 × 906 × 364 Weight (Mass) kg 34 34 34 34 Gross Weight (Gross Mass) kg 38 38 38 Sound Pressure H / SL	Oil	-	L					
Charge kg 1.05 1.05 Airflow Rate H m ⁹ /min 36.0 (1,271) 30.2 (1,066) 36.0 (1,271) 30.2 (1,066) Fan Type Propeller Propeller Propeller Running Current (Rated) A 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 Power Consumption (Rated) W 864 - 864 958 - 958 864 - 864 958 - 958 Power Factor % 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 Starting Current A 5.6 56 56 Dimensions (H × W × D) mm 550 × 765 × 285 550 × 765 × 285 Packaged Dimensions (H × W × D) mm 612 × 906 × 364 612 × 906 × 364 Weight (Mass) kg 38 38 38 Sound H/SL dB(A) 48 / 44 48 / 45 48 / 44 48 / 45	Refrigerant	71						
Airflow Rate SL (cfm) 30.1 (1,063) 25.6 (904) 30.1 (1,063) 25.6 (904) Fan Type Propeller Propeller Propeller Propeller Running Current (Rated) A 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 Power Consumption (Rated) W 864 - 864 958 - 958 864 - 864 958 - 958 Power Factor % 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 Starting Current A 5.6 5.6 5.6 5.6 Dimensions (H × W × D) mm 550 × 765 × 285 550 × 765 × 285 550 × 765 × 285 Packaged Dimensions (H × W × D) mm 612 × 906 × 364 612 × 906 × 364 612 × 906 × 364 Weight (Mass) kg 38 38 38 38 Sound H / SL dB(A) 48 / 44 48 / 45 48 / 44 48 / 45 Sound Pressure H dB(A) 62 62 62 62 62	ongorani	.	kg					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Airflow Rate			())		())		
Fan District Output W 23 Running Current (Rated) A 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 Power Consumption (Rated) W 864 - 864 958 - 958 864 - 864 958 - 958 Power Factor % 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 Starting Current A 5.6 56 56 Dimensions (H × W × D) mm 550 × 765 × 285 550 × 765 × 285 Packaged Dimensions (H × W × D) mm 612 × 906 × 364 612 × 906 × 364 Weight (Mass) kg 34 34 Gross Weight (Gross Mass) kg 38 38 Sound H / SL dB(A) 48 / 44 48 / 45 48 / 44 48 / 45 Sound Pressure H dB(A) 62 62 62 62 62 62			(cfm)	())	()	(, ,		
Motor Output W 23 23 Running Current (Rated) A 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 Power Consumption (Rated) W 864 - 864 - 864 958 - 958 864 - 864 - 864 958 - 958 Power Factor % 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 Starting Current A 5.6 5.6 5.6 5.6 5.6 Dimensions (H × W × D) mm 550 × 765 × 285 550 × 765 × 285 550 × 765 × 285 550 × 765 × 285 Packaged Dimensions (H × W × D) mm 612 × 906 × 364 612 × 906 × 364 612 × 906 × 364 Weight (Mass) kg 34 34 34 34 Gross Weight (Gross Mass) kg 38 38 38 38 Sound H / SL dB(A) 48 / 44 48 / 45 48 / 44 48 / 45 Sound Power H dB 62 62 62 62 62 <td>Fan</td> <td>71</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Fan	71						
Power Consumption (Rated) W 864 - 864 - 864 958 - 958 864 - 864 - 864 958 - 958 958 958 - 958 864 - 864 - 864 958 - 958 - 958 958 958 - 958 958 -								
Power Factor % 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 Starting Current A 5.6	0							
Starting Current A 5.6 5.6 Dimensions (H × W × D) mm 550 × 765 × 285 550 × 765 × 285 Packaged Dimensions (H × W × D) mm 612 × 906 × 364 612 × 906 × 364 Weight (Mass) kg 34 34 Gross Weight (Gross Mass) kg 38 38 Sound H / SL dB(A) 48 / 44 48 / 45 48 / 44 48 / 45 Sound Power H dB 62 62 63 63								
Dimensions (H × W × D) mm 550 × 765 × 285 550 × 765 × 285 Packaged Dimensions (H × W × D) mm 612 × 906 × 364 612 × 906 × 364 Weight (Mass) kg 34 34 Gross Weight (Gross Mass) kg 38 38 Sound H / SL dB(A) 48 / 44 48 / 45 48 / 44 48 / 45 Sound Power H Gross 62 62 63 63								
Packaged Dimensions (H × W × D) mm 612 × 906 × 364 612 × 906 × 364 Weight (Mass) kg 34 34 Gross Weight (Gross Mass) kg 38 38 Sound Pressure Level H / SL dB(A) 48 / 44 48 / 45 48 / 44 48 / 45 Sound Power H dB 62 62 62 62								
Weight (Mass) kg 34 34 Gross Weight (Gross Mass) kg 38 38 Sound Pressure Level H / SL dB(A) 48 / 44 48 / 45 48 / 44 48 / 45 Sound Power H dB 62 62 63 63								
Gross Weight (Gross Mass) kg 38 38 Sound Pressure Level H / SL dB(A) 48 / 44 48 / 45 48 / 44 48 / 45 Sound Power H Gross Mass Gross Mass 62 62 63 63	0	· · · · · ·						
Sound Pressure Level H / SL dB(A) 48 / 44 48 / 45 48 / 44 48 / 45 Sound Power L dB 62 62 63 63								
Pressure Level H / SL dB(A) 48 / 44 48 / 45 48 / 44 48 / 45 Sound Power L dB 62 62 62 62 63		(Gross Mass)	kg	3	8	3	8	
	Sound Pressure Level	H/SL	dB(A)	48 / 44	48 / 45	48 / 44	48 / 45	
	Sound Power Level	н	dB					
Drawing No. 3D066437A 3D066438B	Drawing No.			3D066	643/A	3D06	6438B	

Note:

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Cooling	Heating	Piping Length
Indoor ; 27°CDB / 19°CWB Outdoor ; 35°CDB / 24°CWB	Indoor ; 20°CDB Outdoor ; 7°CDB / 6°CWB	5 m

Conversion Formulae	
$kcal/h = kW \times 860$ Btu/h = kW × 3412 cfm = m ³ /min × 35.3	

	Indoor Unit		FTXG2	5JV1BW	FTXG25JV1BS	, FTXG25JV1BA
Models				5K2V1B		5K2V1B
	Outdoor Unit	Ē	Cooling	Heating	Cooling	Heating
.		kW	2.5 (1.3 ~ 3.0)	3.4 (1.3 ~ 4.5)	2.5 (1.3 ~ 3.0)	3.4 (1.3 ~ 4.5)
Capacity Rated (Min. ~	Max)	Btu/h	8,500 (4,400 ~ 10,200)	11,600 (4,400 ~ 15,400)	8,500 (4,400 ~ 10,200)	11,600 (4,400 ~ 15,400)
naleu (Iviin. ~	Max.)	kcal/h	2,150 (1,120 ~ 2,580)	2,920 (1,120 ~ 3,870)	2,150 (1,120 ~ 2,580)	2,920 (1,120 ~ 3,870)
Running Curre	ent (Rated)	А	3.2 - 3.0 - 2.9	4.4 - 4.2 - 4.1	3.2 - 3.0 - 2.9	4.4 - 4.2 - 4.1
Power Consur	noitan	14/	F00 (0F0 000)			700 (000 1 000)
Rated (Min. ~	Max.)	W	560 (350 ~ 820)	780 (320 ~ 1,320)	560 (350 ~ 820)	780 (320 ~ 1,320)
Power Factor		%	79.5 - 81.2 - 80.5	80.6 - 80.7 - 79.3	79.5 - 81.2 - 80.5	80.6 - 80.7 - 79.3
EER (Cooling)) / COP (Heating)	W/W	4.46 (3.71 ~ 3.66)	4.36 (4.06 ~ 3.41)	4.46 (3.71 ~ 3.66)	4.36 (4.06 ~ 3.41)
Rated (Min. ~		••/ ••		, ,	. ,	
Piping	Liquid	mm		6.4		6.4
Connections	Gas	mm		9.5		9.5
	Drain	mm		or		or
Heat Insulation				and Gas Pipes		ind Gas Pipes
	Piping Length	m		20		20
Max. Interunit	Height Difference	m		15		5
Chargeless		m	1	10	1	0
Amount of Add	ditional Charge of	g/m	9	20		20
Refrigerant		9/11				-
ndoor Unit				5JV1BW		, FTXG25JV1BA
Front Panel Co				hite	,	Aluminium Panel
	Н	_ L	8.8 (311)	9.6 (339)	8.8 (311)	9.6 (339)
Airflow Rate	М	m³/min	6.8 (240)	7.9 (279)	6.8 (240)	7.9 (279)
annow nate	L	(cfm)	4.7 (166)	6.2 (219)	4.7 (166)	6.2 (219)
	SL		3.8 (134)	5.4 (191)	3.8 (134)	5.4 (191)
	Туре		Cross F	Flow Fan	Cross F	low Fan
an	Motor Output	W	2	29	2	29
	Speed	Steps	5 Steps, 0	Quiet, Auto	5 Steps, 0	Quiet, Auto
Air Direction Control			Right, Left, Horiz	zontal, Downward	Right, Left, Horiz	contal, Downward
Air Filter			Removable / Wash	nable / Mildew Proof	Removable / Wash	able / Mildew Proof
Running Curre	ent (Rated)	Α	0.09 - 0.08 - 0.08	0.12 - 0.11 - 0.11	0.09 - 0.08 - 0.08	0.12 - 0.11 - 0.11
	mption (Rated)	W	18 - 18 - 18	24 - 24 - 24	18 - 18 - 18	24 - 24 - 24
Power Factor	F (%	90.9 - 97.8 - 93.8	90.9 - 94.9 - 90.9	90.9 - 97.8 - 93.8	90.9 - 94.9 - 90.9
Temperature (Control			uter Control		uter Control
Dimensions (F		mm		15 × 155		15 × 155
	nensions ($H \times W \times D$)	mm		003 × 377		003 × 377
Weight (Mass)	,	kg		11		1
Gross Weight		kg		15		6
Sound	(01033 11033)	ку				
Pressure Level	H/M/L/SL	dB(A)	38 / 32 / 25 / 22	39 / 34 / 28 / 25	38 / 32 / 25 / 22	39 / 34 / 28 / 25
Sound Power	Level	dB	54	55	54	55
Outdoor Unit			RXG25	5K2V1B	RXG25	K2V1B
Casing Color			Ivory	White	Ivory	White
	Туре		Hermetically Se	aled Swing Type	Hermetically Se	aled Swing Type
Compressor	Model		1YC2:	3AEXD	1YC2:	3AEXD
-	Motor Output	W	6	00	6	00
Refrigerant	Туре		FVC	C50K	FVC	C50K
Dil	Charge	L	0.3	375	0.3	375
	Туре			10A		10A
Refrigerant	Charge	kg		.05		05
	H	m³/min	33.5 (1,183)	30.2 (1,066)	33.5 (1,183)	30.2 (1,066)
Airflow Rate	SL	(cfm)	30.1 (1,063)	25.6 (904)	30.1 (1,063)	25.6 (904)
	Type	, ,		peller	(, ,	beller
an	Motor Output	W		23		23
Running Curre		A	3.11 - 2.92 - 2.82	4.28 - 4.09 - 3.99	3.11 - 2.92 - 2.82	4.28 - 4.09 - 3.99
J.	mption (Rated)	Ŵ	542 - 542 - 542	756 - 756 - 756	542 - 542 - 542	756 - 756 - 756
	npuon (naleu)	۷۷ %	79.2 - 80.7 - 80.1	80.3 - 80.4 - 79.0	79.2 - 80.7 - 80.1	80.3 - 80.4 - 79.0
Power Factor Starting Curre	nt					.4
		A		.4 65 x 095		
Dimensions (H		mm		65 × 285		65 × 285
0	nensions ($H \times W \times D$)	mm		06 × 364		06 × 364
Neight (Mass)		kg		34		34
Gross Weight	(Gross Mass)	kg	3	38	3	38
Sound Pressure Level	H/SL	dB(A)	46 / 43	47 / 44	46 / 43	47 / 44
Sound Power Level	н	dB	61	62	61	62
Drawing No.			3D07	72846	C: 3D0	72844A

Note:

The data are based on the conditions shown in the table	below.
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Cooling	Heating	Piping Length
Indoor ; 27°CDB / 19°CWB Outdoor ; 35°CDB / 24°CWB	Indoor ; 20°CDB Outdoor ; 7°CDB / 6°CWB	5 m

Conversion Formulae
$kcal/h = kW \times 860$ Btu/h = kW × 3412 cfm = m ³ /min × 35.3

Outdoor Unit Image is a strain of the image is strain o		Indoor Unit		FTXG35JV1BW FTXG35JV1BS, FTXG35JV1BA				
Logan Logan Learning Cooling Heating Cooling Heating applying table (Mn Max.) Not (1 - 3 - 3) (1 - 3) (1 - 3 - 3) (1	Models							
Buch T1 900 (4800 - 13000) 10800 (4800 - 17.000) 11 900 (4800 - 17.000) 11 900 (4800 - 17.000) 11 900 (4800 - 17.000) 11 900 (4800 - 17.000) 10 900 (4800 - 17.000) 10 900 (4800 - 17.000) 10 900 (4800 - 17.000) 10 900 (4800 - 17.000) 10 900 (4800 - 17.000) 10 900 (4800 - 17.000) 10 900 (4800 - 17.000) 10 900 (4800 - 17.000) 10 900 (4800 - 17.000) 10 900 (4800 - 17.000) 10 900 (4800 - 17.000) 10 900 (4800 - 17.000) 10 900 (4800 - 17.000) 10 900 (4800 - 17.000) 10 900 (4800 - 17.000) 10 900 (4800 - 17.000) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.33) 10 4.04 (4.38 - 3.34) 10 4.04 (4.38 - 3.34) 10 4.04 (4.38 - 3.34) 10 4.04 (4.38 - 3.34) 10 4.04 (4.38 - 3.34) 10 4.04 (4.38 - 3.34) 10 4.04 (4.38 - 3.34) 10 4.04 (4.38 - 3.34) 10 4.04 (4.38 - 3.34) 10 4.04 (4.38 - 3.34)		Outdoor Unit		Cooling	Heating	Cooling	Heating	
bill That (1 add) (200 - 1200) (2 add) (2	o :.		kW	3.5 (1.4 ~ 3.8)	4.0 (1.4 ~ 5.0)	3.5 (1.4 ~ 3.8)	4.0 (1.4 ~ 5.0)	
Internet Part Quarrent (Pattod) A. Solito (1200 - 2.270) 3.440 (1200 - 4.200) 3.010 (1200 - 2.270) 3.440 (1200 - 4.200) Solito (1200 - 2.270) Solito		Max)	Btu/h	11,900 (4,800 ~ 13,000)	13,600 (4800 ~ 17,100)	11,900 (4,800 ~ 13,000)	13,600 (4800 ~ 17,100)	
Devel Conserption W 880 (380 - 1,20) 990 (320 - 1,50) 890 (380 - 1,20) 990 (320 - 1,50) ower Factor % 79.3 - 80.6 - 80.6 80.4 - 81.2 - 80.9 79.3 - 80.6 - 80.5 80.4 - 81.2 - 80.9 Control (COP) (Heating) WW 3.93 (3.80 - 3.1) 4.04 (4.38 - 3.3) 3.93 (3.80 - 3.1) 4.04 (4.38 - 3.3) Data (Mn - Max) Exptd mm 6.64 9.0 - 9.0 9.0 - 9.0 Data (Mn - Max) Boh Liquid and Gas Pipes Boh Liquid and Gas Pipes 9.0 - 9.0 9.0 Sta, Interust Height Differance m 10 10 10 10 Stage Statistical Charge of gim m 10 10 10 10 Statistical Charge of gim gim 20 8.0 10.8 (81) 10.1 (857) 10.8 (81) 10.1 (857) 10.8 (81) 10.1 (857) 10.8 (81) 10.1 (857) 10.8 (81) 10.1 (857) 10.8 (81) 10.1 (857) 10.8 (81) 10.1 (857) 10.8 (81) 10.1 (857) 10.8 (81) 10.1 (857) 10.8 (81) 10.1 (857) 10.8 (81) 10.1 (857) </td <td></td> <td>ivia.)</td> <td>kcal/h</td> <td>3,010 (1,200 ~ 3,270)</td> <td>3,440 (1,200 ~ 4,300)</td> <td>3,010 (1,200 ~ 3,270)</td> <td>3,440 (1,200 ~ 4,300)</td>		ivia.)	kcal/h	3,010 (1,200 ~ 3,270)	3,440 (1,200 ~ 4,300)	3,010 (1,200 ~ 3,270)	3,440 (1,200 ~ 4,300)	
View Factor	Running Curre	ent (Rated)	A	5.1 - 4.8 - 4.6	5.6 - 5.3 - 5.1	5.1 - 4.8 - 4.6	5.6 - 5.3 - 5.1	
Hall (Min Mak.) % 79.3 - 80.6 - 80.6 80.4 - 81.2 - 80.9 79.3 - 80.6 - 80.6 80.4 - 81.2 - 80.9 79.3 - 80.6 - 80.6 80.4 - 81.2 - 80.9 79.3 - 80.6 - 80.6 80.4 - 81.2 - 80.9 79.3 - 80.6 - 80.6 80.4 - 81.2 - 80.9 79.3 - 80.6 - 80.6 80.4 - 81.2 - 80.9 79.3 - 80.6 - 80.6 80.4 - 81.2 - 80.9 79.3 - 80.6 - 80.6 80.4 - 81.2 - 80.9 79.3 - 80.6 - 80.6 80.4 - 81.2 - 80.9 39.3 (3.89 - 3.11) 4.04 (4.38 - 3.33) 39.3 (3.89 - 3.11) 4.04 (4.38 - 3.33) 39.3 (3.89 - 3.11) 4.04 (4.38 - 3.33) 4.04 (4.38 - 3.33) 4.04 (4.38 - 3.33) 4.04 (4.38 - 3.33) 4.04 (4.38 - 3.33) 4.05 (4.08 - 3.33) 4.05 (4.08 - 3.33) 4.05 (4.08 - 3.33) 4.02 (4.08 - 3.33) 4.04 (4.38 - 3.33) 4.04 (4.38 - 3.33) 4.04 (4.38 - 3.33) 4.04 (4.38 - 3.33) 4.03 (4.08 - 3.33) 4.03 (4.08 - 3.33) 4.03 (4.08 - 3.33) 4.03 (4.08 - 3.33) 4.04 (4.38 - 3.33) 4.03 (4.08 - 3.33) 4.04 (4.38 - 3.33) 4.03 (4.08 - 3.01) 1.03 (4.01 - 3.01 -	Power Consur	mption	\M/	800 (360 1 330)	990 (220 1 500)	800 (260 1 220)	000 (220 1 500)	
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Indigital PTXG35JV1BW FTXG35JV1BA rond Panel Color White Silver, Braded Aluminum Panel M mithing Note Silver, Braded Aluminum Panel Silver, Silv	Amount of Add	ditional Charge of	a/m	2	0	2	0	
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Type Cross Flow Fan Cross Flow Fan an Motor Output W 29 29 29 Speed Steps 5 Steps, Quiet, Auto 5 Steps, Quiet, Auto 5 Steps, Quiet, Auto ir Direction Control Flight, Left, Horizontal, Downward Removable / Washable / Midew Proof Removable / Washable / Midew Proof unring Current (Rated) A 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.16 - 0.15 - 0.14			(ctm)				- (-)	
An Motor Output W 29 29 Speed Steps 5 Steps, Quiet, Auto 5 Steps, Quiet, Auto ir Direction Control Right, Left, Horizontal, Downward Removable / Washable / Mildew Proof Removable / Washable / Mildew Proof ir Filter Removable / Washable / Mildew Proof Removable / Washable / Mildew Proof Removable / Washable / Mildew Proof over Factor 9 9.0.9.942-90.3 90.9-92.8-95.2 90.9-94.2-90.3 90.9-92.8-95.2 emperature Control Microcomputer Control Microcomputer Control Microcomputer Control Microcomputer Control immersions (H × W × D) mm 295 × 915 × 155 295 × 915 × 155 295 × 915 × 155 calcaged Dimensions (H × W × D) mm 285 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 result (Gross Mass) kg 11 11 11 11 result (Gross Mass) kg 15 16 16 ound Power Level dB 58 58 58 58 field (Mass) result (Gross Mass) kg 17 17								
Speed Steps 0		Туре		Cross F	low Fan	Cross F	low Fan	
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ir Filter Participant Proof Permovable / Washable / Mildew Proof Permovable / Mole / Washable / Mildew Proof Permovable / Mole / Washable / Mildew Proof Permovable / Mashable / Mildew Proof Permovable / Mole / Washable / Mildew Proof / Washable / Washable / Mildew Proof / Washable / Washable / Washable / Washable / Washa		Speed	Steps	5 Steps, C	Quiet, Auto	5 Steps, C	Quiet, Auto	
unning Current (Rated) A 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.14 0.13 - 0.12 - 0.12 0.16 - 0.15 - 0.1 ower Consumption (Rated) W 26 - 26 - 26 32 - 32 - 32 26 - 26 - 26 32 - 32 - 32 ower Factor % 90 9 - 94.2 - 90.3 90 9 - 92.8 - 95.2 90 9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.2 90.9 - 94.2 - 90.3 90.9 - 92.8 - 95.1 91.5 16 16 17 11 11 11 11 11 11 11 11 16 105 16 10.4 / 20 / 22 42 / 36 / 29 / 26 42 / 34 / 26 / 23 42 / 36 / 29 / 26 42 / 34 / 26 / 23 42 / 36 / 29 / 26 10.0 / 10.0 / 10.0 / 10.0 / 10.0 / 10.0 / 10.0 / 10.0 / 10.0 / 10.0 / 10.0 / 10.0 / 10.0 / 10.0 / 10.0 / 10.	Air Direction C	Control	-	Right, Left, Horiz	ontal, Downward	Right, Left, Horiz	ontal, Downward	
ower Consumption (Rated) W 26-26-26 32-32-32 26-26-26 32-32-32 ower Factor % 90.9-94.2-90.3 90.9-92.8-95.2 90.9-94.2-90.3 90.9-92.8-95.2 immersions (H × W × D) mm 295 × 915 × 155 296 × 915 × 155 296 × 915 × 155 ackaged Dimensions (H × W × D) mm 286 × 1003 × 377 285 × 1003 × 377 285 × 1003 × 377 delight (Mass) kg 11 11 11 iross Weight (Gross Mass) kg 15 16 ound messure H/ M / L / SL dB(A) 42 / 36 / 29 / 26 42 / 34 / 26 / 23 42 / 36 / 29 / 26 ound Power Level dB 58 58 58 58 udoor Unit mt RXG35K2V1B RXG35K2V1B asing Color firigerant Type Hermetically Sealed Swing Type Hermetically Sealed Swing Type ompressor Model 10/23/24/24/24 9/24/24/24/24 9/24/24/24/24/24 ower Source Type RYG23AEXD 10/23/24/26/23 42/36/29/26 utdoo	Air Filter							
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ound H/M/L/SL dB(A) 42/34/26/23 42/36/29/26 42/34/26/23 42/36/29/26 ound Power Level dB 58<								
ound Power Level dB 58 58 58 58 58 utdoor Unit asing Color RXG35K2V1B RXG35K2V1B RXG35K2V1B asing Color Ivory White Ivory White Ivory White ompressor Type Hermetically Sealed Swing Type Hermetically Sealed Swing Type Model 1YC23AEXD 1YC23AEXD 1YC23AEXD efrigerant Type FVC50K FVC50K Model 0.375 0.375 0.375 efrigerant Type R410A R-410A Charge kg 1.05 1.05 Ifflow Rate SL (cfm) 30.0 (1,271) 30.2 (1,066) 36.0 (1,271) 30.2 (1,066) an Type Propeller Propeller Propeller Propeller an Type Propeller SL 5.6 5.6 5.6 ower Consumption (Rated) A 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 4.97 - 4.68 - 4.86 9.8 - 9.58 - 958 9.64 - 864 - 864 - 964 9.598 - 958 9.64 - 864	Sound Pressure				-		42 / 36 / 29 / 26	
Nutdoor Unit RXG35K2V1B RXG35K2V1B asing Color Ivory White Ivory White Ivory White ompressor Model 1YC23AEXD 1YC23AEXD Model 1YC23AEXD 1YC23AEXD 1YC23AEXD Motor Output W 600 600 ferigerant Type FVC50K FVC50K Il Charge L 0.375 0.375 Type R-410A R-410A R-410A Charge kg 1.05 1.05 irflow Rate H m ⁹ min 36.0 (1,271) 30.2 (1,066) 36.0 (1,271) 30.2 (1,066) an Type Propeller 1.05 1.05 1.05 unning Current (Rated) A 4.97 - 4.88 - 4.48 5.44 - 5.15 - 4.96 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 ower Consumption (Rated) W 864 - 864 - 864 - 958 - 958 864 - 864 - 864 - 864 - 958 - 958 - 958 950 × 765 × 285 360 × 765 × 285 360 × 765 × 285 360 × 765 × 285 360 × 765 × 285 360 × 765 × 285 360 × 765 × 2			dD	59	50	50	50	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			uБ					
Type Hermetically Sealed Swing Type Hermetically Sealed Swing Type important Model 1YC23AEXD 1YC23AEXD Motor Output W 600 600 iefrigerant Type FVC50K FVC50K Charge L 0.375 0.375 efrigerant Type R-410A R-410A Type R-410A R-410A charge kg 1.05 1.05 iiflow Rate H m*/min 36.0 (1,271) 30.2 (1,066) 36.0 (1,271) 30.2 (1,066) an Type Propeller Propeller 23 23 23 unning Current (Rated) A 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 ower Consumption (Rated) W 864 - 864 958 - 958 864 - 864 - 864 958 - 958 ower Factor % 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 iternersions (H × W × D) mm 550 × 765 × 285 550 ×								
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Motor Output W 600 600 lefrigerant ill Type FVC50K FVC50K Charge L 0.375 0.375 tefrigerant ill Type R-410A R-410A Type R-410A R-410A Charge kg 1.05 inflow Rate H m ⁶ /min SL (cfm) 30.0 (1,271) 30.2 (1,066) an Type Propeller Propeller Motor Output W 23 23 unning Current (Rated) A 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 ower Factor % 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 ower Factor % 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 imensions (H × W × D) mm 550 × 765 × 285 550 × 765 × 285 insensions (H × W × D) mm 612 × 906 × 364 612 × 906 × 364 veld 38 38 38 38 ound Power H/SL dB(A) 48/44 48/45						,	0 71	
Type FVC50K FVC50K Charge L 0.375 0.375 efrigerant inflow Rate Type R-410A R-410A H m³/min SL 1.05 1.05 an Type Propeller Propeller Motor Output W 23 23 tunning Current (Rated) A 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 ower Consumption (Rated) W 864 - 864 958 - 958 ower Cansumption (Rated) W 864 - 864 - 864 958 - 958 itring Current A 5.6 56 imensions (H × W × D) mm 560 × 765 × 285 550 × 765 × 285 incess Weight (Gross Mass) kg 34 34 verei A 48/44 48/45 48/44 48/44 48/45 48/44 48/45	Jompressor		14/					
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an visual		SL	(cfm)				· · · · ·	
Motor Output W 23 23 tunning Current (Rated) A 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 4.97 - 4.68 - 4.48 5.44 - 5.15 - 4.96 ower Consumption (Rated) W 864 - 864 - 864 958 - 958 864 - 864 - 864 958 - 958 ower Factor % 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 tarting Current A 5.6 5.6 5.6 5.6 innensions (H × W × D) mm 550 × 765 × 285 550 × 765 × 285 560 × 364 ackaged Dimensions (H × W × D) mm 612 × 906 × 364 612 × 906 × 364 612 × 906 × 364 /eight (Mass) kg 34 34 34 34 ross Weight (Gross Mass) kg 38 38 38 ound ressure evel H / SL dB(A) 48 / 44 48 / 45 48 / 44 48 / 45	an							
ower Consumption (Rated) W 864 - 864 958 - 958 864 - 864 958 - 958 ower Factor % 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 tarting Current A 5.6 5.6 5.6 imensions (H × W × D) mm 550 × 765 × 285 550 × 765 × 285 ackaged Dimensions (H × W × D) mm 612 × 906 × 364 612 × 906 × 364 /eight (Mass) kg 34 34 ross Weight (Gross Mass) kg 38 38 ound H / SL dB(A) 48 / 44 48 / 45 48 / 44 48 / 45 ound ressure H / SL dB(A) 62 62 62 62 62 62							-	
were Factor % 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 79.0 - 80.3 - 80.3 80.1 - 80.9 - 80.5 tarting Current A 5.6	0	\ /					5.44 - 5.15 - 4.96	
A 5.6 5.6 imensions (H × W × D) mm 550 × 765 × 285 550 × 765 × 285 ackaged Dimensions (H × W × D) mm 612 × 906 × 364 612 × 906 × 364 veight (Mass) kg 34 34 irross Weight (Gross Mass) kg 38 38 ound ressure evel H / SL dB(A) 48 / 44 48 / 45 48 / 44 48 / 45 ound Power H dB 62 63 63 63	Power Consur	mption (Rated)		864 - 864 - 864			958 - 958 - 958	
immensions (H × W × D) mm 550 × 765 × 285 550 × 765 × 285 ackaged Dimensions (H × W × D) mm 612 × 906 × 364 612 × 906 × 364 /eight (Mass) kg 34 34 irross Weight (Gross Mass) kg 38 38 ound ressure evel H / SL dB(A) 48 / 44 48 / 45 48 / 44 48 / 45 ound Power H dB 62 63 63 63	Power Factor		%	79.0 - 80.3 - 80.3	80.1 - 80.9 - 80.5	79.0 - 80.3 - 80.3	80.1 - 80.9 - 80.5	
immensions (H × W × D) mm 550 × 765 × 285 550 × 765 × 285 ackaged Dimensions (H × W × D) mm 612 × 906 × 364 612 × 906 × 364 /eight (Mass) kg 34 34 irross Weight (Gross Mass) kg 38 38 ound ressure evel H / SL dB(A) 48 / 44 48 / 45 48 / 44 48 / 45 ound Power H dB 62 63 63 63	Starting Curre	nt	A	5.	6	5.	.6	
ackaged Dimensions (H × W × D) mm 612 × 906 × 364 612 × 906 × 364 /eight (Mass) kg 34 34 iross Weight (Gross Mass) kg 38 38 ound ressure evel H / SL dB(A) 48 / 44 48 / 45 48 / 44 48 / 45 ound Power H dB 62 63 63 63	Dimensions (H	Η×W×D)	mm	550 × 76	65 × 285	550 × 76	65 × 285	
kg 34 34 iross Weight (Gross Mass) kg 38 38 ound ressure evel H/SL dB(A) 48/44 48/45 48/44 48/45 ound Power H dB 62 63 63 63								
iross Weight (Gross Mass) kg 38 38 ound ressure evel H/SL dB(A) 48/44 48/45 48/44 48/45 ound Power H dB 62 63 63 63								
ound ound ressure H/SL dB(A) 48/44 48/45 48/44 und Power H								
ound Power L dB 62 63 63 63 63	Sound Pressure			-	-		-	
	Level Sound Power Level	н	dB	63	63	63	63	
	Drawing No.	<u>.</u>	-	3D07	2847	C: 3D0	72845A	

Note:

The data are based on the cond	ditions shown in the table below.
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[Cooling	Heating	Piping Length
	Indoor ; 27°CDB / 19°CWB Outdoor ; 35°CDB / 24°CWB	Indoor ; 20°CDB Outdoor ; 7°CDB / 6°CWB	5 m

Conversion Formulae
$kcal/h = kW \times 860$ Btu/h = kW × 3412 cfm = m ³ /min × 35.3

Models Capacity Rated (Min. ~ Power Consu Rated (Min. ~ Power Factor EER (Cooling Rated (Min. ~ Piping	rent (Rated)	kW Btu/h kcal/h A	FTXG50 RXG50 5.0 (1.7 ~ 5.3) 17,100 (5,800 ~ 18,100) 4,300 (1,460 ~ 4,560)		FTXG50JV1BS, RXG50 Cooling 5.0 (1.7 ~ 5.3)	K2V1B Heating 5.8 (1.7 ~ 6.5)
Rated (Min. ~ Running Curr Power Consu Rated (Min. ~ Power Factor EER (Cooling Rated (Min. ~	Max.)	Btu/h kcal/h	5.0 (1.7 ~ 5.3) 17,100 (5,800 ~ 18,100)	5.8 (1.7 ~ 6.5)	V	
Rated (Min. ~ Running Curr Power Consu Rated (Min. ~ Power Factor EER (Cooling Rated (Min. ~	rent (Rated)	Btu/h kcal/h	17,100 (5,800 ~ 18,100)	(/	5.0 (1.7 ~ 5.3)	$58(17 \sim 65)$
Rated (Min. ~ Running Curr Power Consu Rated (Min. ~ Power Factor EER (Cooling Rated (Min. ~	rent (Rated)	kcal/h		10 900 (5 900 00 000)		0.0 (1.7 ~ 0.0)
Running Curro Power Consu Rated (Min. ~ Power Factor EER (Cooling Rated (Min. ~	rent (Rated)		4.300 (1.460 ~ 4.560)	19,000 (5,000 ~ 22,200)	17,100 (5,800 ~ 18,100)	19,800 (5,800 ~ 22,200
Power Consu Rated (Min. ~ Power Factor EER (Cooling Rated (Min. ~		A		4,990 (1,460 ~ 5,590)	4,300 (1,460 ~ 4,560)	4,990 (1,460 ~ 5,590)
Power Factor EER (Cooling Rated (Min. ~	Imption Max.)	_	7.2 - 6.9 - 6.6	7.4 - 7.1 - 6.8	7.2 - 6.9 - 6.6	7.4 - 7.1 - 6.8
Power Factor EER (Cooling Rated (Min. ~	Max.)	14/	1 500 (450 - 1 000)	1 000 (500 0 500)	1 500 (450 - 1 000)	1 000 (500 0 500)
EER (Cooling Rated (Min. ~		W	1,560 (450 ~ 1,880)	1,600 (520 ~ 2,500)	1,560 (450 ~ 1,880)	1,600 (520 ~ 2,500)
Rated (Min. ~		%	98.5 - 98.3 - 98.5	98.3 - 98.0 - 98.0	98.5 - 98.3 - 98.5	98.3 - 98.0 - 98.0
,	g) / COP (Heating)	W/W	3.21 (3.78 ~ 2.82)	3.63 (3.27 ~ 2.60)	3.21 (3.78 ~ 2.82)	3.63 (3.27 ~ 2.60)
Dinina	,		- ()	· · · · ·	. ,	, ,
	Liquid	mm	φ 6			5.4
Connections	Gas	mm	φ 1		ф 12.7	
	Drain	mm	φ 1			8.0
-leat Insulatio			Both Liquid a			nd Gas Pipes
	t Piping Length	m	3			0
	t Height Difference	m	2	-		0
Chargeless		m	1	0	1	0
Amount of Ad	ditional Charge of	g/m	2	0	2	0
Refrigerant				-		-
ndoor Unit			FTXG50		,	FTXG50JV1BA
Front Panel C			Wh		Silver, Brushed	
	Н	_	10.3 (364)	11.4 (402)	10.3 (364)	11.4 (402)
Airflow Rate	M	m³/min	8.5 (300)	9.8 (346)	8.5 (300)	9.8 (346)
	L	(cfm)	6.7 (237)	8.1 (286)	6.7 (237)	8.1 (286)
	SL		5.7 (201)	7.1 (251)	5.7 (201)	7.1 (251)
	Туре		Cross F	low Fan	Cross F	low Fan
Fan	Motor Output	W	4	-	40	
	Speed	Steps	5 Steps, C	Quiet, Auto	5 Steps, C	Quiet, Auto
Air Direction (Control	-	Right, Left, Horizo	ontal, Downward	Right, Left, Horiz	ontal, Downward
Air Filter			Removable / Wash	able / Mildew Proof	Removable / Wash	able / Mildew Proof
Running Curr	ent (Rated)	Α	0.16 - 0.15 - 0.14	0.19 - 0.18 - 0.17	0.16 - 0.15 - 0.14	0.19 - 0.18 - 0.17
Power Consu	Imption (Rated)	W	32 - 32 - 32	38 - 38 - 38	32 - 32 - 32	38 - 38 - 38
Power Factor		%	90.9 - 92.8 - 95.2	90.9 - 91.8 - 93.1	90.9 - 92.8 - 95.2	90.9 - 91.8 - 93.1
Temperature Control			Microcompu			uter Control
		mm	295 × 915 × 155			15 × 155
		mm	285 × 1,003 × 377		285 × 1,0	
Weight (Mass	, ,	kg	11		1	
	t (Gross Mass)	kg	1		16	
Sound		- Ng		5	1	<u> </u>
Pressure Level	H/M/L/SL	dB(A)	44 / 40 / 35 / 32	44 / 40 / 35 / 32	44 / 40 / 35 / 32	44 / 40 / 35 / 32
Sound Power		dB	60	60	60	60
Outdoor Unit	t		RXG50	K2V1B	RXG50	K2V1B
Casing Color			Ivory White		lvory	White
	Туре		Hermetically Sea	aled Swing Type	Hermetically Sea	aled Swing Type
Compressor	Model	-	2YC3	6BXD	2YC3	6BXD
	Motor Output	W	1,100		1,100	
Refrigerant	Туре		FVC	50K	FVC50K	
Dil	Charge	L	0.6	65	0.65	
D-64	Туре		R-410A		R-410A	
Refrigerant	Charge	kg	1.			.6
	H	m³/min	50.9 (1,797)	45.0 (1,589)	50.9 (1,797)	45.0 (1,589)
Airflow Rate	SL	(cfm)	48.9 (1,727)	43.1 (1,522)	48.9 (1,727)	43.1 (1.522)
_	Туре		Prop		(, ,	beller
-an	Motor Output	W	5			3
Running Curr		A	7.04 - 6.75 - 6.46	7.21 - 6.92 - 6.63	7.04 - 6.75 - 6.46	7.21 - 6.92 - 6.63
	· · · /	W	1,528 - 1,528 - 1,528	1,562 - 1,562 - 1,562	1,528 - 1,528 - 1,528	1,562 - 1,562 - 1,562
0		%	98.7 - 98.4 - 98.6	98.5 - 98.1 - 98.2	98.7 - 98.4 - 98.6	98.5 - 98.1 - 98.2
Power Consu		A	90.7 - 90.4 - 90.0 7.		90.7 - 90.4 - 90.0	
Power Consu Power Factor					735 × 82	
Power Consu Power Factor Starting Curre		mm	735 × 825 × 300			
Power Consu Power Factor Starting Curre Dimensions (H	H×W×D)	mm	797 × 960 × 390		797 × 960 × 390	
Power Consu Power Factor Starting Curre Dimensions (I Packaged Dir	$H \times W \times D$) mensions ($H \times W \times D$)	mm			48	
Power Consu Power Factor Starting Curre Dimensions (H Packaged Dir Weight (Mass	$H \times W \times D$) mensions ($H \times W \times D$) s)	mm kg	4	8	4	
Power Consu Power Factor Starting Curre Dimensions (I Packaged Dir Weight (Mass Gross Weight	$H \times W \times D$) mensions ($H \times W \times D$)	mm		8	4	8 3
Power Consu Power Factor Starting Curre Dimensions (I Packaged Dir Weight (Mass	$H \times W \times D$) mensions ($H \times W \times D$) s)	mm kg	4	8	4	
Power Consu Power Factor Starting Curre Dimensions (I Packaged Dir Weight (Mass Gross Weight Sound Pressure	$H \times W \times D)$ mensions (H × W × D) s) t (Gross Mass) H / SL	mm kg kg	4 5	8 3	4 5	3

Note:

The data are based on the conditions shown in the table b	elow.
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Cooling	Heating	Piping Length
Indoor ; 27°CDB / 19°CWB Outdoor ; 35°CDB / 24°CWB	Indoor ; 20°CDB Outdoor ; 7°CDB / 6°CWB	5 m

Conversion Formulae
$kcal/h = kW \times 860$ Btu/h = kW × 3412 cfm = m ³ /min × 35.3

	Indoor Unit		FTXG2	FTXG25JV1BW FTXG25JV1BA			
Models Outdoor Unit			RXG25	K3V1B	RXG25K3V1B		
	Outdoor Unit	Ī	Cooling	Heating	Cooling	Heating	
	-	kW	2.5 (1.3 ~ 3.0)	3.4 (1.3 ~ 4.5)	2.5 (1.3 ~ 3.0)	3.4 (1.3 ~ 4.5)	
Capacity Rated (Min. ~	Max)	Btu/h	8,500 (4,400 ~ 10,200)	11,600 (4,400 ~ 15,400)	8,500 (4,400 ~ 10,200)	11,600 (4,400 ~ 15,400)	
	Max.)	kcal/h	2,150 (1,120 ~ 2,580)	2,920 (1,120 ~ 3,870)	2,150 (1,120 ~ 2,580)	2,920 (1,120 ~ 3,870)	
Running Curre		A	3.2 - 3.0 - 2.9	4.4 - 4.2 - 4.1	3.2 - 3.0 - 2.9	4.4 - 4.2 - 4.1	
Power Consur		W	560 (350 ~ 820)	780 (320 ~ 1,320)	560 (350 ~ 820)	780 (320 ~ 1,320)	
Rated (Min. ~	,		(, ,		· · · · ·		
Power Factor		%	79.5 - 81.2 - 80.5	80.6 - 80.7 - 79.3	79.5 - 81.2 - 80.5	80.6 - 80.7 - 79.3	
EER (Cooling) Rated (Min. ~) / COP (Heating) Max.)	W/W	4.46 (3.71 ~ 3.66)	4.36 (4.06 ~ 3.41)	4.46 (3.71 ~ 3.66)	4.36 (4.06 ~ 3.41)	
Disting	Liquid	mm	φ (6.4	φ	6.4	
Piping Connections	Gas	mm	φ 9	9.5	φ	9.5	
001110010110	Drain	mm	φ 16.0 c	or	φ 16.0 ¢	or	
Heat Insulation	'n		Both Liquid a	nd Gas Pipes	Both Liquid a	and Gas Pipes	
Max. Interunit	Piping Length	m	2	20		20	
Max. Interunit	Height Difference	m	1	5	1	15	
Chargeless		m	1	0	1	10	
	ditional Charge of	a/m		0		20	
Refrigerant	<u> </u>	g/m		-			
Indoor Unit				5JV1BW	-	5JV1BA	
Front Panel C				nite		minium Panel	
	Н		8.8 (311)	9.6 (339)	8.8 (311)	9.6 (339)	
Airflow Rate	М	m³/min	6.8 (240)	7.9 (279)	6.8 (240)	7.9 (279)	
AINOW Hale	L	(cfm)	4.7 (166)	6.2 (219)	4.7 (166)	6.2 (219)	
	SL	7 F	3.8 (134)	5.4 (191)	3.8 (134)	5.4 (191)	
	Туре		Cross F	low Fan	Cross F	Flow Fan	
Fan	Motor Output	W	2	9	2	29	
	Speed	Steps	5 Steps, C	Quiet, Auto	5 Steps, 0	Quiet, Auto	
Air Direction Control			Right, Left, Horiz	ontal, Downward	Right, Left, Horiz	zontal, Downward	
Air Filter				able / Mildew Proof	Removable / Wash	hable / Mildew Proof	
Running Curre	ent (Rated)	А	0.09 - 0.08 - 0.08 0.12 - 0.11 - 0.11		0.09 - 0.08 - 0.08	0.12 - 0.11 - 0.11	
5	mption (Rated)	W	18 - 18 - 18	24 - 24 - 24	18 - 18 - 18	24 - 24 - 24	
Power Factor		%	90.9 - 97.8 - 93.8	90.9 - 94.9 - 90.9	90.9 - 97.8 - 93.8	90.9 - 94.9 - 90.9	
Temperature Control		,,,		uter Control		outer Control	
		mm		15 × 155		15 × 155	
		mm	285 × 1,003 × 377			003 × 377	
		kg	11		,	11	
Gross Weight		kg	15			16	
Sound	(01033 11033)	- Ry		5			
Pressure Level	H/M/L/SL	dB(A)	38 / 32 / 25 / 22	39 / 34 / 28 / 25	38 / 32 / 25 / 22	39 / 34 / 28 / 25	
Sound Power	Level	dB	56	57	56	57	
Outdoor Unit			RXG25	K3V1B	RXG25	5K3V1B	
Casing Color			Ivory White		Ivory	White	
	Туре		Hermetically Se	aled Swing Type	Hermetically Se	aled Swing Type	
Compressor	Model		1YC23	BAEXD	1YC2	3AEXD	
	Motor Output	W	60	00	600		
Refrigerant	Туре		FVC	250K	FVC50K		
Oil	Charge	L	0.3	375	0.375		
Defrigerent	Туре		R-4	10A	R-410A		
Refrigerant	Charge	kg	1.	05	1.	.05	
Airflow Date	Н	m³/min	33.5 (1,183)	30.2 (1,066)	33.5 (1,183)	30.2 (1,066)	
Airflow Rate	SL	(cfm)	30.1 (1,063)	25.6 (904)	30.1 (1,063)	25.6 (904)	
F	Туре		Pror	peller	Pro	peller	
Fan	Motor Output	W	2	3	2	23	
Running Curre		Α	3.11 - 2.92 - 2.82	4.28 - 4.09 - 3.99	3.11 - 2.92 - 2.82	4.28 - 4.09 - 3.99	
	mption (Rated)	W	542 - 542 - 542	756 - 756 - 756	542 - 542 - 542	756 - 756 - 756	
Power Factor	/	%	79.2 - 80.7 - 80.1	80.3 - 80.4 - 79.0	79.2 - 80.7 - 80.1	80.3 - 80.4 - 79.0	
Starting Curre	ent	A		.4	4	.4	
Dimensions (H		mm		65 × 285		65 × 285	
Packaged Dimensions ($H \times W \times D$) mm			612 × 906 × 364			06 × 364	
Weight (Mass) kg				4		34	
Gross Weight		kg		8		38	
Sound Pressure	H/SL	dB(A)	46 / 43	47 / 44	46 / 43	47 / 44	
Level Sound Power Level	н	dB	62	63	62	63	
	<u> </u>						
Drawing No.		3D080182		3D080183			

Note:

The data are based on the co	onditions shown in the table below.
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Cooling	Heating	Piping Length
Indoor ; 27°CDB / 19°C Outdoor ; 35°CDB / 24°C		5 m

Conversion Formulae	
kcal/h = kW × 860 Btu/h = kW × 3412 cfm = m³/min × 35.3	

Models Capacity Rated (Min Power Consu Rated (Min Power Factor EER (Cooling Rated (Min Piping Connections Heat Insulatio	ent (Rated)	kW Btu/h kcal/h	RXG35 Cooling 3.5 (1.4 ~ 3.8) 11,900 (4,800 ~ 13,000)	Heating 4.0 (1.4 ~ 5.0)	Cooling 3.5 (1.4 ~ 3.8)	K3V1B Heating 4.0 (1.4 ~ 5.0)
Rated (Min. ~ Power Consu Rated (Min. ~ Power Factor EER (Cooling Rated (Min. ~ Piping Connections	Max.) ent (Rated)	Btu/h	3.5 (1.4 ~ 3.8)	4.0 (1.4 ~ 5.0)	3.5 (1.4 ~ 3.8)	
Rated (Min. ~ Running Curn Power Consu Rated (Min. ~ Power Factor EER (Cooling Rated (Min. ~ Piping Connections	ent (Rated)	Btu/h	(/	· · · · · ·	· · · · ·	4.0 (1.4 ~ 5.0)
Rated (Min. ~ Running Curn Power Consu Rated (Min. ~ Power Factor EER (Cooling Rated (Min. ~ Piping Connections	ent (Rated)		11,900 (4,800 ~ 13,000)			
Running Curn Power Const. Rated (Min Power Factor EER (Cooling Rated (Min Piping Connections	ent (Rated)	kcal/h		13,600 (4800 ~ 17,100)	11,900 (4,800 ~ 13,000)	13,600 (4800 ~ 17,100
Power Consu Rated (Min. ~ Power Factor EER (Cooling Rated (Min. ~ Piping Connections			3,010 (1,200 ~ 3,270)	3,440 (1,200 ~ 4,300)	3,010 (1,200 ~ 3,270)	3,440 (1,200 ~ 4,300)
Power Factor EER (Cooling Rated (Min. ~ Piping Connections	mption	A	5.1 - 4.8 - 4.6	5.6 - 5.3 - 5.1	5.1 - 4.8 - 4.6	5.6 - 5.3 - 5.1
Power Factor EER (Cooling Rated (Min. ~ Piping Connections		W	890 (360 ~ 1,220)	990 (320 ~ 1,500)	890 (360 ~ 1,220)	990 (320 ~ 1,500)
EER (Cooling Rated (Min. ~ Piping Connections						
Rated (Min. ~ Piping Connections		%	79.3 - 80.6 - 80.6	80.4 - 81.2 - 80.9	79.3 - 80.6 - 80.6	80.4 - 81.2 - 80.9
Piping Connections		W/W	3.93 (3.89 ~ 3.11)	4.04 (4.38 ~ 3.33)	3.93 (3.89 ~ 3.11)	4.04 (4.38 ~ 3.33)
Connections	Liquid	mm		<u> </u>	φ6	\$1
	Gas	mm	φ 9 φ 9		φ0 φ9	
leat Insulation	Drain	mm	φ 3 φ 16.0 o			
		11011	Both Liquid ar		∳ 16.0 or ∲ 18.0 Both Liquid and Gas Pipes	
	Piping Length	m	2		20	
	Height Difference	m			15	
Chargeless		m		0	10	-
	lditional Charge of					-
Amount of Ac Refrigerant	iunonal Unarge of	g/m	2	0	20	0
ndoor Unit			FTXG35	JV1BW	FTXG35	JV1BA
Front Panel C	Color		Wh		Brushed Alun	
	H		10.1 (357)	10.8 (381)	10.1 (357)	10.8 (381)
	M	m³/min	7.3 (258)	8.6 (304)	7.3 (258)	8.6 (304)
Airflow Rate	L	(cfm)	4.6 (162)	6.4 (226)	4.6 (162)	6.4 (226)
	SL	(,	3.9 (138)	5.6 (198)	3.9 (138)	5.6 (198)
	Туре		Cross F	()	Cross Fl	· · · · ·
an	Motor Output	W	29		29	
an	Speed	Steps	5 Steps, C	-	5 Steps, Q	-
in Direction		Sieps	Right, Left, Horizo			
Air Direction	Jontrol		5		Right, Left, Horizontal, Downward Removable / Washable / Mildew Proof	
Air Filter			Removable / Washa			
Running Curr		A	0.13 - 0.12 - 0.12	0.16 - 0.15 - 0.14	0.13 - 0.12 - 0.12	0.16 - 0.15 - 0.14
	mption (Rated)	W	26 - 26 - 26	32 - 32 - 32	26 - 26 - 26	32 - 32 - 32
Power Factor		%	90.9 - 94.2 - 90.3	90.9 - 92.8 - 95.2	90.9 - 94.2 - 90.3	90.9 - 92.8 - 95.2
Temperature Control		Microcomputer Control		Microcompu		
Dimensions $(H \times W \times D)$ mm		295 × 91		295 × 91		
Packaged Dimensions $(H \times W \times D)$ mm			285 × 1,003 × 377		285 × 1,003 × 377	
Neight (Mass		kg	1		1.	
ě	(Gross Mass)	kg	1	5	16	6
Sound Pressure _evel	H/M/L/SL	dB(A)	42 / 34 / 26 / 23	42 / 36 / 29 / 26	42 / 34 / 26 / 23	42 / 36 / 29 / 26
Sound Power	Level	dB	60	60	60	60
Outdoor Uni	t		RXG35	K3V1B	RXG35	K3V1B
Casing Color			Ivory White		Ivory White	
0	Type		Hermetically Sea	aled Swing Type	Hermetically Sea	aled Swing Type
Compressor	Model		1YC23		1YC23	0 1
	Motor Output	W	60		60	
Refrigerant	Туре		FVC		FVC	
Dil	Charge	L	0.3		0.3	
	Туре		R-4		R-41	
Refrigerant	Charge	kg	1.(1.0	
	H	m³/min	36.0 (1,271)	30.2 (1,066)	36.0 (1,271)	30.2 (1,066)
Airflow Rate	SL	(cfm)	30.1 (1.063)	25.6 (904)	30.1 (1,063)	25.6 (904)
	Туре	. ,	Prop		Prop	
an	Motor Output	W	2		23	
Running Curr		A	4.97 - 4.68 - 4.48	5.44 - 5.15 - 4.96	4.97 - 4.68 - 4.48	5.44 - 5.15 - 4.96
0	mption (Rated)	Ŵ	864 - 864 - 864	958 - 958 - 958	864 - 864 - 864	958 - 958 - 958
Power Factor		%	79.0 - 80.3 - 80.4	80.0 - 80.9 - 80.5	79.0 - 80.3 - 80.4	80.0 - 80.9 - 80.5
Starting Curre		A	79.0 - 80.3 - 80.4		79.0 - 60.3 - 60.4	
		mm				
munerone /			550 × 765 × 285 612 × 906 × 364		550 × 765 × 285	
	5				612 × 906 × 364 34	
Packaged Dii		kg	34			
Packaged Dii Weight (Mass	(Gross iviass)	kg	3	5	38	5
Packaged Dii Neight (Mass Gross Weigh	(i		1
Packaged Dii	H/SL	dB(A)	48 / 44	48 / 45	48 / 44	48 / 45
Packaged Dii Veight (Mass Gross Weigh Gound Pressure		dB(A) dB	48 / 44 63 3D08	63	48 / 44 63 3D08	63

Note:

The data are based on the conditions shown in	n the table below.
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Cooling	Heating	Piping Length
Indoor ; 27°CDB / 19°CWB Outdoor ; 35°CDB / 24°CWB	Indoor ; 20°CDB Outdoor ; 7°CDB / 6°CWB	5 m

Conversion Formulae
$\begin{array}{l} \text{kcal/h} = \text{kW} \times 860 \\ \text{Btu/h} = \text{kW} \times 3412 \\ \text{cfm} = \text{m}^3/\text{min} \times 35.3 \end{array}$

	Indoor Unit		FTXG50	JV1BW	FTXG5	0JV1BA
Models	Outdoor Unit		RXG50	K3V1B	RXG50	K3V1B
			Cooling	Heating	Cooling	Heating
Capacity		kW	5.0 (1.7 ~ 5.3)	5.8 (1.7 ~ 6.5)	5.0 (1.7 ~ 5.3)	5.8 (1.7 ~ 6.5)
Rated (Min. ~	Max.)	Btu/h	17,100 (5,800 ~ 18,100)	19,800 (5,800 ~ 22,200)	17,100 (5,800 ~ 18,100)	19,800 (5,800 ~ 22,200)
	•	kcal/h	4,300 (1,460 ~ 4,560)	4,990 (1,460 ~ 5,590)	4,300 (1,460 ~ 4,560)	4,990 (1,460 ~ 5,590)
Moisture Rem		L/h	2.9	_	2.9	-
Running Curre	()	A	7.2 - 6.9 - 6.6	7.4 - 7.1 - 6.8	7.2 - 6.9 - 6.6	7.4 - 7.1 - 6.8
Power Consul Rated (Min. ~	mption Max)	W	1,560 (450 ~ 1,880)	1,600 (520 ~ 2,500)	1,560 (450 ~ 1,880)	1,600 (520 ~ 2,500)
Power Factor	With .)	%	98.5 - 98.3 - 98.5	98.3 - 98.0 - 98.0	98.5 - 98.3 - 98.5	98.3 - 98.0 - 98.0
) / COP (Heating)					
Rated (Min. ~	Max.)	W/W	3.21 (3.78 ~ 2.82)	3.63 (3.27 ~ 2.60)	3.21 (3.78 ~ 2.82)	3.63 (3.27 ~ 2.60)
Piping	Liquid	mm	φ 6			6.4
Connections	Gas	mm	φ1		φ 12.7	
	Drain	mm	φ1			8.0
Heat Insulatio			Both Liquid a		1	nd Gas Pipes
	Piping Length	m	3		-	60
	Height Difference	m	2			0
Chargeless		m	1	0	1	0
Amount of Ad	ditional Charge of	a∕m	2	0	2	0
Refrigerant Indoor Unit		3	- FTXG50			OJV1BA
Front Panel C	olor					minium Panel
FION Panel C		1		11 4 (402)	Brusned Alui 10.3 (364)	
	Н	- <u>.</u> .	10.3 (364)	11.4 (402)	(/	11.4 (402)
Airflow Rate	M	m³/min	8.5 (300)	9.8 (346)	8.5 (300)	9.8 (346)
	L	(cfm)	6.7 (237)	8.1 (286)	6.7 (237) 5.7 (201)	8.1 (286)
	SL		5.7 (201)	7.1 (251)	- (-)	7.1 (251)
-	Туре	144	Cross F			Flow Fan
Fan	Motor Output	W	4	-	40	
	Speed	Steps	5 Steps, C			Quiet, Auto
Air Direction C	Control		Right, Left, Horiz	,		contal, Downward
Air Filter			Removable / Wash			able / Mildew Proof
Running Curre		A	0.16 - 0.15 - 0.14	0.19 - 0.18 - 0.17	0.16 - 0.15 - 0.14	0.19 - 0.18 - 0.17
	mption (Rated)	W	32 - 32 - 32	38 - 38 - 38	32 - 32 - 32	38 - 38 - 38
Power Factor		%	90.9 - 92.8 - 95.2	90.9 - 91.8 - 93.1	90.9 - 92.8 - 95.2	90.9 - 91.8 - 93.1
Temperature			Microcomp			uter Control
Dimensions $(H \times W \times D)$ mm		295 × 915 × 155			15 × 155	
Packaged Din	nensions ($H \times W \times D$)	mm	285 × 1,0	003 × 377	285 × 1,0	003 × 377
Weight (Mass		kg	1	1	1	1
Gross Weight	(Gross Mass)	kg	1	5	1	6
Sound						
Pressure Level	H/M/L/SL	dB(A)	44 / 40 / 35 / 32	44 / 40 / 35 / 32	44 / 40 / 35 / 32	44 / 40 / 35 / 32
Sound Power	l evel	dB	60	60	60	60
Outdoor Unit			RXG50			K3V1B
Casing Color			Ivory	-		White
out ing obioi	Туре		Hermetically Sea		,	aled Swing Type
Compressor	Model		2YC3	0 71		6BXD
Comproceed	Motor Output	W	1,1			100
Refrigerant	Туре			250K	,	C50K
Oil	Charge	L		65		65
	Type			10A		10A
Refrigerant	Charge	kg		.6		.6
	H	m³/min	50.9 (1,797)	45.0 (1,589)	50.9 (1,797)	45.0 (1,589)
Airflow Rate	SL	(cfm)	48.9 (1,727)	43.1 (1,522)	48.9 (1,727)	43.1 (1,522)
_	Type	. /		Propeller Propeller		
Fan	Motor Output	W	5			3
Running Curre		A	7.04 - 6.75 - 6.46	7.21 - 6.92 - 6.63	7.04 - 6.75 - 6.46	7.21 - 6.92 - 6.63
0	mption (Rated)	Ŵ	1,528 - 1,528 - 1,528	1,562 - 1,562 - 1,562	1,528 - 1,528 - 1,528	1,562 - 1,562 - 1,562
Power Factor		%	98.7 - 98.4 - 98.6	98.5 - 98.1 - 98.2	98.7 - 98.4 - 98.6	98.5 - 98.1 - 98.2
Starting Curre		A		.4		.4
Dimensions (H		mm				.+ 25 × 300
Packaged Dimensions ($H \times W \times D$) mm		735 × 825 × 300 797 × 992 × 390		735 × 625 × 300 797 × 992 × 390		
Weight (Mass) kg					7	
Gross Weight		kg		2		2
Sound		''y	5			-
Pressure Level	H/SL	dB(A)	48 / 44	48 / 45	48 / 44	48 / 45
Sound Power Level	н	dB	63	63	63	63
Drawing No.	1	•	3D08	0642	3D08	30643

Note:

The data are based on the conditions shown in the table below.

Cooling	Heating	Piping Length
Indoor ; 27°CDB / 19°CW Outdoor ; 35°CDB / 24°CV		5 m

Conversion Formulae
$kcal/h = kW \times 860$ Btu/h = kW × 3412
cfm = m³/min × 35.3

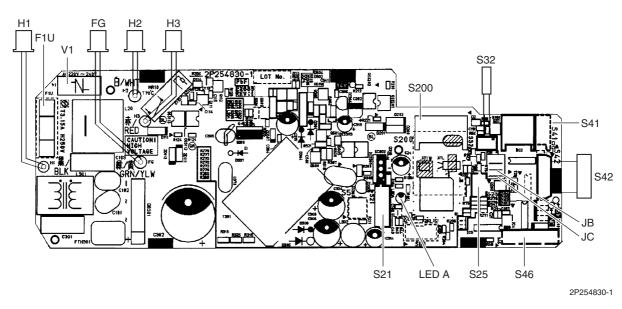
Part 3 Printed Circuit Board Connector Wiring Diagram

Indo	or Unit	15
Outd	loor Unit	17
2.2	RXG50K2V1B	19
2.3	RXG50K3V1B	20
	Outo 2.1 2.2	Indoor Unit Outdoor Unit 2.1 25/35 Class 2.2 RXG50K2V1B 2.3 RXG50K3V1B

1. Indoor Unit

Control PCB

1) S21	Connector for centralized control (HA)
2) S25	Connector for INTELLIGENT EYE sensor PCB
3) S32	Connector for indoor heat exchanger thermistor
4) S41	Connector for swing motors
5) S42	Connector for reduction motor (front panel mechanism) and limit switch
6) S46	Connector for signal receiver / display PCB
7) S200	Connector for fan motor
8) H1, H2, H3,	Connector for terminal board (indoor - outdoor transmission)
9) FG	Connector for terminal board (frame ground)
10) JB	Fan speed setting when compressor stops for thermostat OFF
JC	Power failure recovery function (auto-restart)
	* Refer to page 130 for detail.
11) LED A	LED for service monitor (green)
12) F1U	Fuse (3.15 A, 250 V)
13) V1	Varistor



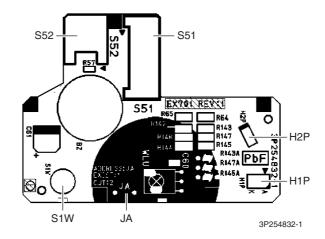
Caution

Replace the PCB if you accidentally cut the jumpers other than JB and JC. Jumpers are necessary for electronic circuit. Improper operation may occur if you cut any of them.

Signal Receiver / Display PCB

1) S51	Connector for control PCB
2) S52	Connector for room temperature thermistor
3) S1W	Forced cooling operation [ON/OFF] button
	 Refer to page 124 for detail.
4) H1P	LED for operation (multi-color)
5) H2P	LED for INTELLIGENT EYE (green)
	A . I. I

- 6) JA Address setting jumper
 - * Refer to page 127 for detail.



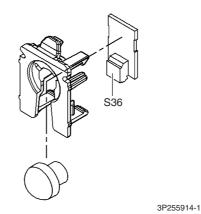


Replace the PCB if you accidentally cut the jumpers other than JA. Jumpers are necessary for electronic circuit. Improper operation may occur if you cut any of them.

INTELLIGENT EYE Sensor PCB

1) S36

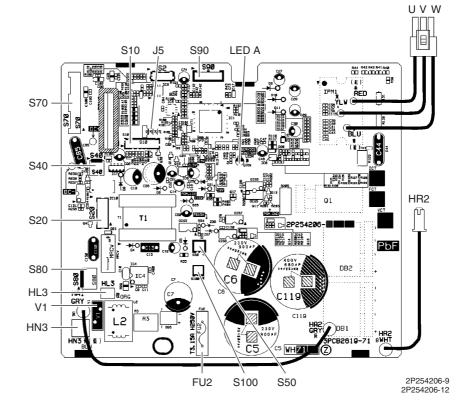
Connector for control PCB



2. Outdoor Unit 2.1 25/35 Class

Main PCB

1) S10	Connector for filter PCB
2) S20	Connector for outdoor electronic expansion valve coil
3) S40	Connector for overload protector
4) S50	Connector for magnetic relay
5) S70	Connector for fan motor
6) S80	Connector for four way valve coil
7) S90	Connector for thermistors
	(outdoor temperature, outdoor heat exchanger, discharge pipe)
8) S100	Connector for forced operation button PCB
9) HL3, HN3	Connector for filter PCB
10) HR2	Connector for reactor
11) U, V, W	Connector for compressor
12) FU2 Fuse (3.15 A, 250 V)	
13) LED A	LED for service monitor (green)
14) V1	Varistor
15) J5	Jumper for improvement of defrost performance * Refer to page 130 for detail.



Caution

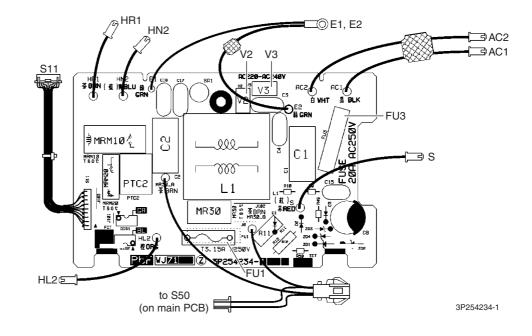
Replace the PCB if you accidentally cut the jumpers other than J5.

Jumpers are necessary for electronic circuit. Improper operation may occur if you cut any of them.

Filter PCB

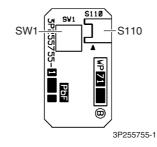
1) S11	Connector for main PCB
2) AC1, AC2, S	Connector for terminal board
3) E1, E2	Terminal for earth wire
4) HL2, HN2	Connector for main PCB
5) HR1	Connector for reactor
6) FU1	Fuse (3.15 A, 250 V)
7) FU3	Fuse (20 A, 250 V)

8) V2, V3 Varistor



Forced Operation Button PCB

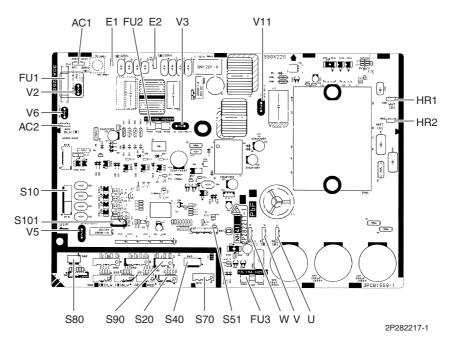
- 1) S110 2) SW1
- Connector for main PCB
- Forced cooling operation [ON/OFF] switch
 - * Refer to page 124 for detail.



2.2 RXG50K2V1B

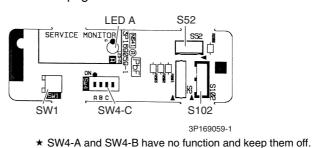
Main PCB

1) S10	Connector for terminal board (indoor - outdoor transmission)
2) S20	Connector for outdoor electronic expansion valve coil
3) S40	Connector for overload protector
4) S51, S101	Connector for service monitor PCB
5) S70	Connector for fan motor
6) S80	Connector for four way valve coil
7) S90	Connector for thermistors
	(outdoor temperature, outdoor heat exchanger, discharge pipe)
8) AC1, AC2	Connector for terminal board (power supply)
9) E1, E2	Connector for earth wire
10)HR1, HR2	Connector for reactor
11)U, V, W	Connector for compressor
12)FU1	Fuse (30 A, 250 V)
13)FU2, FU3	Fuse (3.15 A, 250 V)
14)V2, V3, V5 V6, V11	Varistor



Service Monitor PCB

- 1) S52, S102
 2) LED A
- 3) SW1
- Connector for main PCB LED for service monitor (green)
- Forced cooling operation [ON/OFF] button
- * Refer to page 124 for detail.
- 4) SW4-C Switch for improvement of defrost performance * Refer to page 130 for detail.

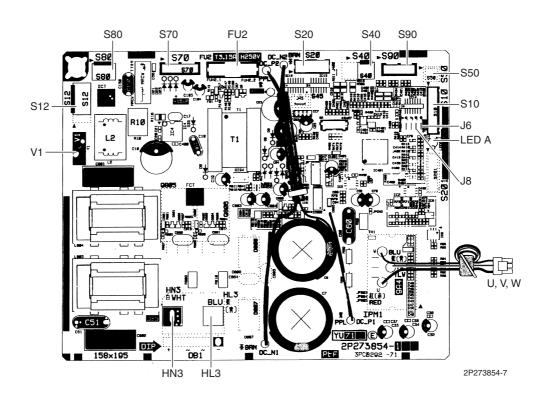


Printed Circuit Board Connector Wiring Diagram

2.3 RXG50K3V1B

Main PCB

1) S10	Connector for [S11] on filter PCB
2) S12	Connector for [HL4] [HN4] on filter PCB
3) S20	Connector for outdoor electronic expansion valve coil
4) S40	Connector for overload protector
5) S50	Connector for magnetic relay
6) S70	Connector for fan motor
7) S80	Connector for four way valve coil
8) S90	Connector for thermistors
	(outdoor temperature, outdoor heat exchanger, discharge pipe)
9) HL3, HN3	Connector for [HL2] [HN2] on filter PCB
10) U, V, W	Terminal for compressor
11) FU2	Fuse (3.15 A, 250 V)
12) LED A	LED for service monitor (green)
13) V1	Varistor
14)J6	Jumper for facility setting
	* Refer to page 129 for detail.
15) J8	Jumper for improvement of defrost performance
	* Refer to page 130 for detail.



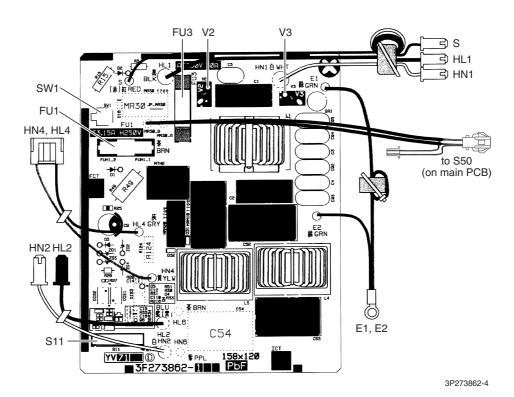
Caution

Replace the PCB if you accidentally cut the jumpers other than J6 and J8.

Jumpers are necessary for electronic circuit. Improper operation may occur if you cut any of them.

Filter PCB

- 1) S11 Connector for [S10] on main PCB
- 2) HL1, HN1, S Connector for terminal board
- 3) E1, E2 Terminal for earth wire
- 4) HL2, HN2 Connector for [HL3] [HN3] on main PCB
- 5) HL4, HN4 Connector for [S12] on main PCB
- 6) FU1 Fuse (3.15 A, 250 V)
- 7) FU3 Fuse (30 A, 250 V)
- 8) V2, V3Varistor9) SW1Forced of
 - Forced cooling operation [ON/OFF] button
 - * Refer to page 124 for detail.



Printed Circuit Board Connector Wiring Diagram

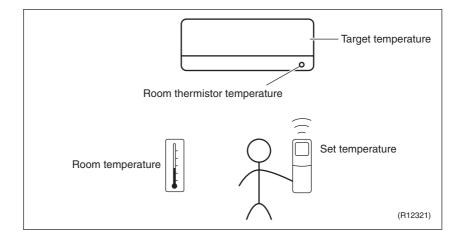
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Main Functions Temperature Control

Definitions of Temperatures The definitions of temperatures are classified as following.

- · Room temperature: temperature of lower part of the room
- Set temperature: temperature set by remote controller
- Room thermistor temperature: temperature detected by room temperature thermistor
- · Target temperature: temperature determined by microcomputer



Temperature Control

The temperature of the room is detected by the room temperature thermistor. However, there is a difference between the "temperature detected by room temperature thermistor" and the "temperature of lower part of the room", depending on the type of the indoor unit or installation condition. Practically, the temperature control is done by the "target temperature appropriately adjusted for the indoor unit" and the "temperature detected by room temperature thermistor".

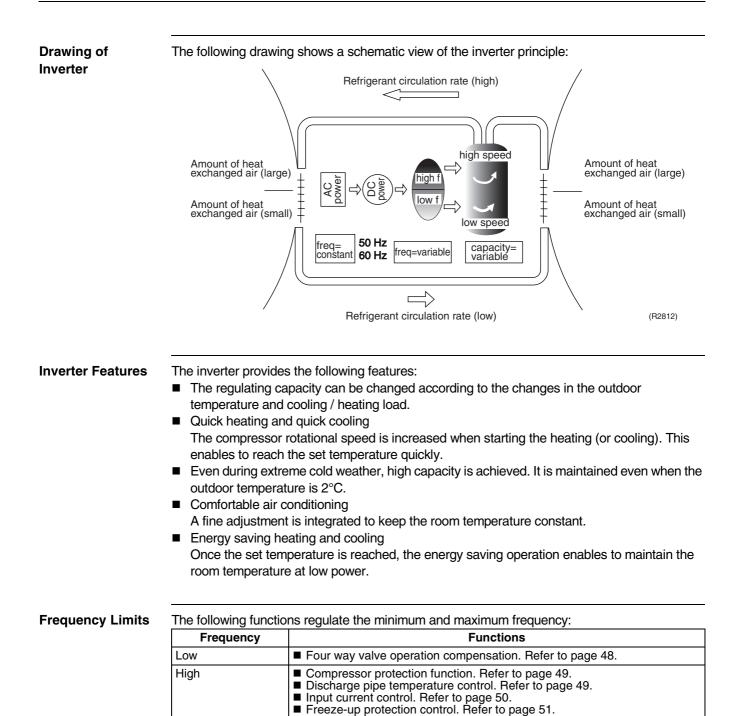
When the frequency decreases, the rotation speed of the compressor decreases resulting in a decreased refrigerant circulation. This leads to a lower amount of the heat

1.2 Frequency Principle

Main Control The frequency of the compressor is controlled by the following 2 parameters: **Parameters** The load condition of the operating indoor unit The difference between the room thermistor temperature and the target temperature Additional The target frequency is adapted by additional parameters in the following cases: Control Frequency restrictions Initial settings **Parameters** Forced cooling operation **Inverter Principle** To regulate the capacity, a frequency control is needed. The inverter makes it possible to alter the rotation speed of the compressor. The following table explains the conversion principle: Phase Description The supplied AC power source is converted into the DC power source for the present. 1 2 The DC power source is reconverted into the three phase AC power source with variable frequency When the frequency increases, the rotation speed of the compressor increases resulting in an increased refrigerant circulation. This leads to a higher amount of the heat

exchange per unit.

exchange per unit.



Heating peak-cut control. Refer to page 51.

Defrost control. Refer to page 53.

Forced Cooling	Refer to page 124 for detail.
Operation	

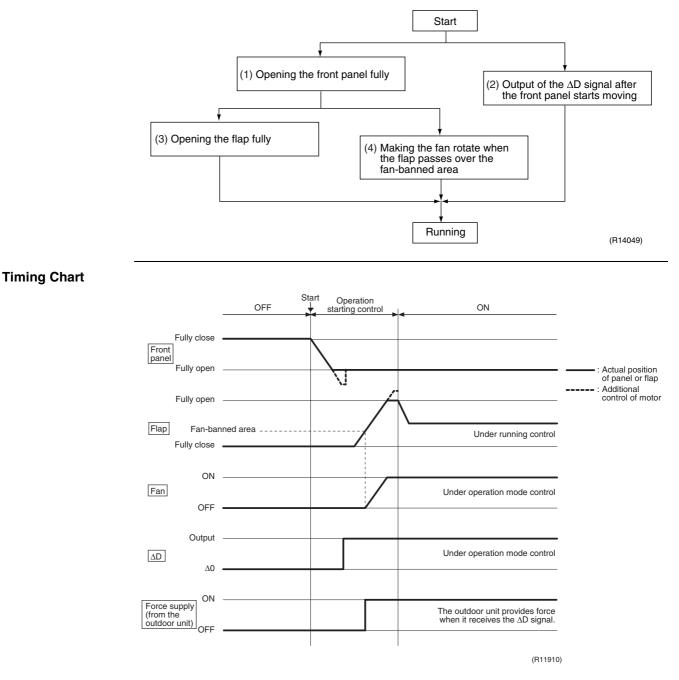
1.3 Operation Starting Control

Outline

The system carries out the following control at the beginning to conduct every functional parts properly.

- 1. Opening the front panel fully
- 2. Output of the ΔD signal after the front panel starts moving
- 3. Opening the flap fully after the front panel opens fully
- 4. Making the fan rotate when the flap passes over the fan-banned area

Control Flow



1.4 Airflow Direction Control

Power-AirflowThe large flap sends a large volume of air downward to the floor and provides an optimumDual Flapscontrol in cooling, dry, and heating operation.

<Cooling / Dry>

During cooling or dry operation, the flap retracts into the indoor unit. Then, cool air can be blown far and distributed all over the room.

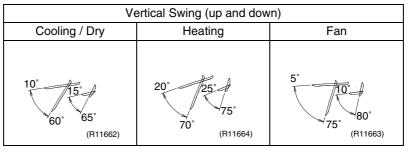
<Heating>

During heating operation, the large flap directs airflow downward to spread the warm air to the entire room.

Wide-AngleThe louvers, made of elastic synthetic resin, provide a wide range of airflow that guaranteesLouverscomfortable air distribution.

Auto-Swing

The following table explains the auto swing process for cooling, dry, heating, and fan.



COMFORT AIRFLOW Operation The vertical swing flap is controlled not to blow the air directly at the people in the room.

Cooling / Dry	Heating
5°	
(R11665)	75° (R11666)

1.5 Fan Speed Control for Indoor Unit

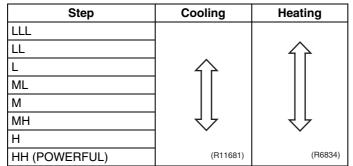
Outline

Phase control and fan speed control contains 9 steps: LLL, LL, SL, L, ML, M, MH, H, and HH. The airflow rate can be automatically controlled depending on the difference between the room thermistor temperature and the target temperature. This is done through phase control and Hall IC control.

For more information about Hall IC, refer to the troubleshooting for fan motor on page 71.

Automatic Fan Speed Control

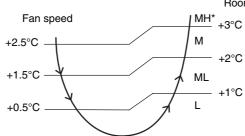
In automatic fan speed operation, the step "SL" is not available.



= The airflow rate is automatically controlled within this range when the [FAN] setting button is set to <u>automatic</u>.

<Cooling>

The following drawing explains the principle of fan speed control for cooling.



Room thermistor temperature - target temperature

(R14588)

*The upper limit is M tap in 30 minutes from the operation start.

<Heating>

In heating operation, the fan speed is regulated according to the indoor heat exchanger temperature and the difference between the room thermistor temperature and the target temperature.



1. During POWERFUL operation, the fan rotates at H tap + 50 rpm.

2. The fan stops during defrost control.

COMFORT AIRFLOW Operation

- The fan speed is controlled automatically.
- The latest command has the priority between POWERFUL and COMFORT AIRFLOW.

1.6 Program Dry Operation

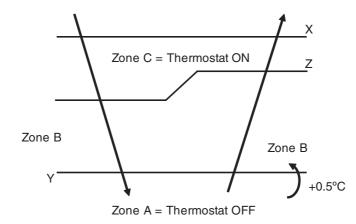
Outline

Program dry operation removes humidity while preventing the room temperature from lowering. Since the microcomputer controls both the temperature and airflow rate, the temperature adjustment and [FAN] setting buttons are inoperable.

Detail

The microcomputer automatically sets the temperature and airflow rate. The difference between the room thermistor temperature at start-up and the target temperature is divided into two zones. Then, the unit operates in an appropriate capacity for each zone to maintain the temperature and humidity at a comfortable level.

Room thermistor temperature at start-up	Target temperature X	Thermostat OFF point Y	Thermostat ON point Z
24°C or more	Room thermistor	X − 2.5°C	X – 0.5°C or Y + 0.5°C (zone B) continues for 10 min.
23.5°C ≀ 18°C	temperature at start-up	X – 2.0°C	X – 0.5°C or Y + 0.5°C (zone B) continues for 10 min.
17.5℃ ≀	18°C	X – 2.0°C	$X - 0.5^{\circ}C = 17.5^{\circ}C$ or $Y + 0.5^{\circ}C$ (zone B) continues for 10 min.



(R11581)

1.7 Automatic Operation

	-
Outline	Automatic Cooling / Heating Function When the automatic operation is selected with the remote controller, the microcomputer automatically determines the operation mode as cooling or heating according to the room temperature and the set temperature at start-up. The unit automatically switches the operation mode to maintain the room temperature at the set temperature.
Detail	Ts: set temperature (set by remote controller) T: target temperature (determined by microcomputer) T: room thermistor temperature (detected by room temperature thermistor) C: correction value 1. The set temperature (Ts) determines the target temperature (Tt). (Ts = 18 ~ 30°C). 2. The target temperature (Tt) is calculated as; Tt = Ts + C where C is the correction value. C = 0°C 3. Thermostat ON/OFF point and operation mode switching point are as follows. Tr means the room thermistor temperature. (1) Heating \rightarrow Cooling switching point: Tr \geq Tt + 3.0°C (2) Cooling \rightarrow Heating switching point: Tr < Tt - 2.5°C (3) Thermostat ON/OFF point is the same as the ON/OFF point of cooling or heating operation. 4. During initial operation Tr \geq Ts : Cooling operation Tr < Ts : Heating operation
	Target temperature - $2.0^{\circ}C$ Cooling OperationTarget temperature + $3.0^{\circ}C$ = Thermostat OFF= Thermostat OFFTarget temperature - $2.5^{\circ}C$ Heating Operation
	Ex: When the target temperature is 25° C Cooling $\rightarrow 23^{\circ}$ C: Thermostat OFF $\rightarrow 22^{\circ}$ C: Switch to heating

Heating \rightarrow 27°C: Thermostat OFF \rightarrow 28°C: Switch to cooling

Function and Control

Thermostat Control 1.8

Outline

Thermostat control is based on the difference between the room thermistor temperature and the target temperature.

Detail

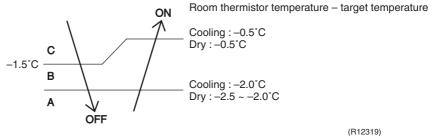
Thermostat OFF Condition

• The temperature difference is in the zone A.

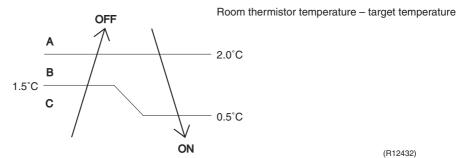
Thermostat ON Condition

- The temperature difference returns to the zone C after being in the zone A. ٠
- The system resumes from defrost control in any zones except A.
- The operation turns on in any zones except A. ٠
- The monitoring time has passed while the temperature difference is in the zone B. (Cooling / Dry: 10 minutes, Heating: 10 seconds)

<Cooling / Dry>



<Heating>



(R12432)



Refer to "Temperature Control" on page 23 for detail.

1.9 NIGHT SET Mode

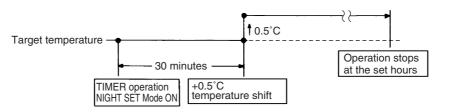
Outline

When the OFF TIMER is set, the NIGHT SET Mode is automatically activated. The NIGHT SET Mode keeps the airflow rate setting.

Detail

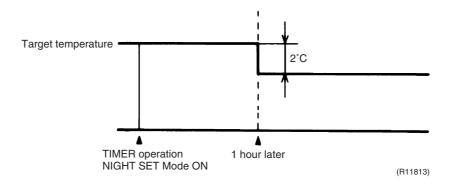
The NIGHT SET Mode continues operation at the target temperature for the first one hour, then automatically raises the target temperature slightly in the case of cooling, or lowers it slightly in the case of heating. This prevents excessive cooling in summer and excessive heating in winter to ensure comfortable sleeping conditions, and also conserves electricity.

<Cooling>



(R18034)

<Heating>



1.10 ECONO Operation

Outline

ECONO operation reduces the maximum operating current and the power consumption. This operation is particularly convenient for energy-saving-oriented users. It is also a major bonus for those whose breaker capacities do not allow the use of multiple electrical devices and air conditioners.

It is easily activated from the wireless remote controller by pushing the [ECONO] button.

Detail

- When this function is activated, the maximum capacity also decreases.
- The remote controller can send the ECONO command when the unit is in cooling, heating, dry, or automatic operation. This function can only be set when the unit is running. Pressing the [ON/OFF] button on the remote controller cancels the function.
- This function and POWERFUL operation cannot be used at the same time. The latest command has the priority.

Power consumption and current	Normal	Maximum during normal operation
	\square	Maximum during ECONO operation
	ECONO Operation	
	Time	
		(R9288)

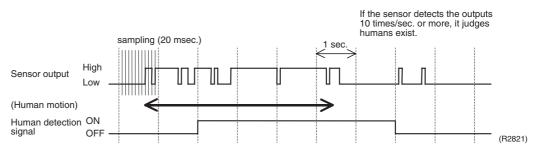
1.11 INTELLIGENT EYE Operation

Outline

This function detects the existence of humans in the room with a motion sensor (INTELLIGENT EYE) and reduces the capacity when there is nobody in the room in order to save electricity.

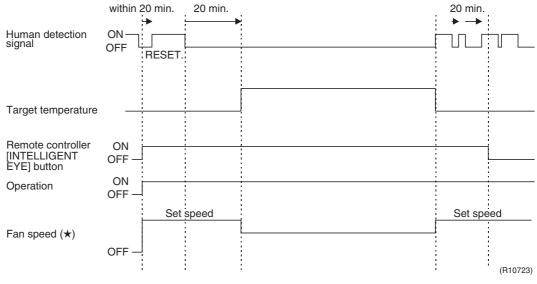
Detail

1. Detection method by INTELLIGENT EYE



- The sensor detects human motion by receiving infrared rays and displays the pulse wave output.
- The microcomputer in the indoor unit carries out a sampling every 20 msec. and if it detects 10 cycles of the wave in 1 second in total (corresponding to 20 msec. × 10 = 200 msec.), it judges humans are in the room as the motion signal is ON.

2. The motions (for example: in cooling)



- When the microcomputer does not have a signal from the sensor in 20 minutes, it judges that nobody is in the room and operates the unit at a temperature shifted from the target temperature. (cooling / dry: 1 ~ 2°C higher, heating: 2°C lower, automatic: according to the operation mode at that time.)
- ★ In FAN operation, the fan speed is reduced by 60 rpm.

Others

For dry operation, you cannot set the temperature with a remote controller, but the target temperature is shifted internally.

1.12 Inverter POWERFUL Operation

Outline

In order to exploit the cooling and heating capacity to full extent, operate the air conditioner by increasing the indoor fan rotating speed and the compressor frequency.

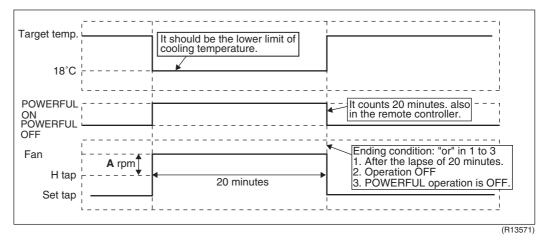
Detail

When the [POWERFUL] button is pressed, the fan speed and target temperature are converted to the following states for 20 minutes.

Operation mode	Fan speed	Target temperature
COOL	H tap + A rpm	18°C
DRY	Dry rotating speed + A rpm	Lowered by 2.5°C
HEAT	H tap + A rpm	31°C
FAN	H tap + A rpm	—
AUTO	Same as cooling / heating in POWERFUL operation	The target temperature is kept unchanged.

A = 50 rpm

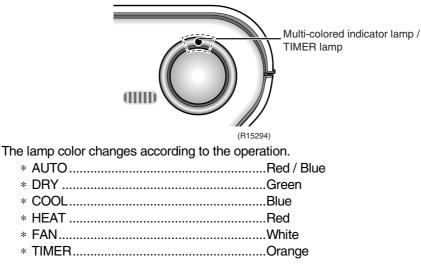
Ex: POWERFUL operation in cooling



1.13 Multi-Colored Indicator Lamp / TIMER Lamp

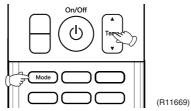
Features

Current operation mode is displayed in color of the lamp of the indoor unit. Operating status can be monitored even in automatic operation in accordance with the actual operation mode.

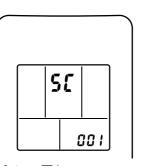


Brightness Setting The brightness of the multi-colored indicator lamp can be adjusted L (low), H (high), or OFF.

1. Press the center of the [Temp] button and the [Mode] button at the same time.

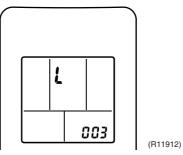


SE is displayed on the LCD.

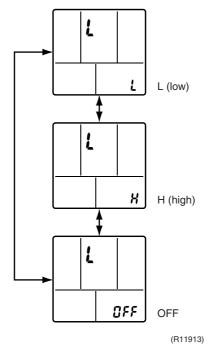


(R11911)

2. Select ι (light) with the [Temp] \blacktriangle or \checkmark button.



- 3. Press the [Mode] button to enter the brightness setting mode.
- 4. Press the [Temp] \blacktriangle or \triangledown button to adjust the brightness of the multi-colored indicator lamp.

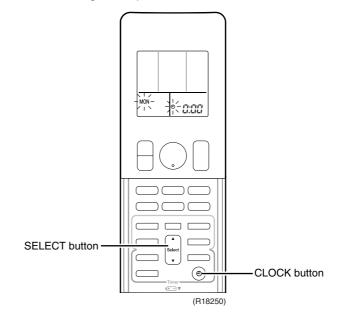


 Press the [Mode] button for 5 seconds to exit from the brightness setting mode. (When the remote controller is left untouched for 60 seconds, it returns to the normal mode also.)

1.14 Clock Setting

ARC466 Series

- The clock can be set by taking the following steps:
- 1. Press the [CLOCK] button. \rightarrow []:[][] is displayed and **MON** and ④ blink.
- 2. Press the [SELECT] ▲ or ▼ button to set the clock to the current day of the week.
- 3. Press the [CLOCK] button.
 - \rightarrow \bigcirc blinks.
- Press the [SELECT] ▲ or ▼ button to set the clock to the present time.
 Holding down the [SELECT] ▲ or ▼ button increases or decreases the time display rapidly.
- 5. Press the [CLOCK] button. (Point the remote controller at the indoor unit when pressing the button.)
 - \rightarrow blinks and clock setting is completed.

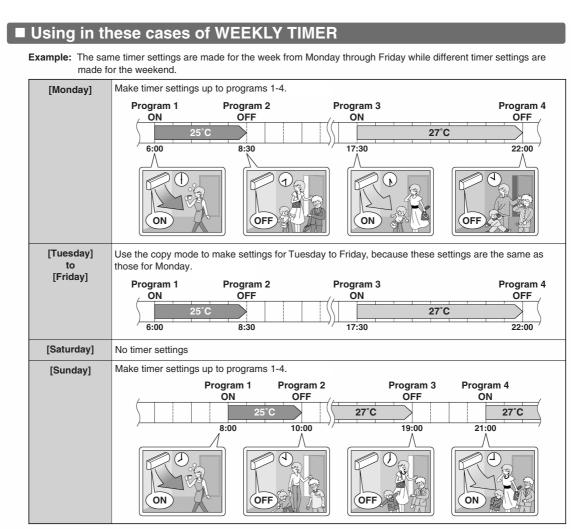


1.15 WEEKLY TIMER Operation

Outline

Up to 4 timer settings can be saved for each day of the week (up to 28 settings in total). The 3 items: "ON/OFF", "temperature", and "time" can be set.

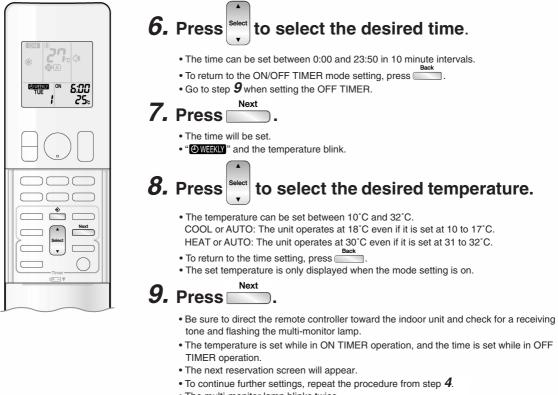
Detail



• Up to 4 reservations per day and 28 reservations per week can be set in the WEEKLY TIMER. The effective use of the copy mode ensures ease of making reservations.

• The use of ON-ON-ON settings, for example, makes it possible to schedule operating mode and set temperature changes. Furthermore, by using OFF-OFF-OFF-OFF settings, only the turn off time of each day can be set. This will turn off the air conditioner automatically if the user forgets to turn it off.

	■ To use WEEKLY TIMER operation
	Setting mode
	• Make sure the day of the week and time are set. If not, set the day of the week and time.
	Program 1 Program 2 Program 3 Program 4
<u>;</u> 25₽	[Monday]
◆	Day and number ON/OFF Time Temperature
Select	
	7. Press .
	 The day of the week and the reservation number of the current day will be displayed. 1 to 4 settings can be made per day.
	2. Press to select the desired day of the week
	and reservation number.
	• Pressing see changes the reservation number and the day of the week.
	3. Press Next
	The day of the week and reservation number will be set.
	• "OWEEKLY" and "ON" blink.
	A Dropp select to polect the desired mode
	4. Press to select the desired mode.
	• Pressing thanges " 0N " or " 0FF " setting in sequence.
	Pressing \blacktriangle alternates the following items appearing on the LCD in rotational
	sequence.
	ON TIMER OFF TIMER blank
	 In case the reservation has already been set, selecting "blank" deletes the reservation.
	• Go to step 9 if "blank" is selected.
	To return to the day of the week and reservation number setting, press
	5. Press $$.
	• The ON/OFF TIMER mode will be set.
	• "OWEEKLY" and the time blink.



The multi-monitor lamp blinks twice.

The TIMER lamp periodically lights orange.

The multi-monitor lamp will not blink orange if all the reservation settings are deleted.



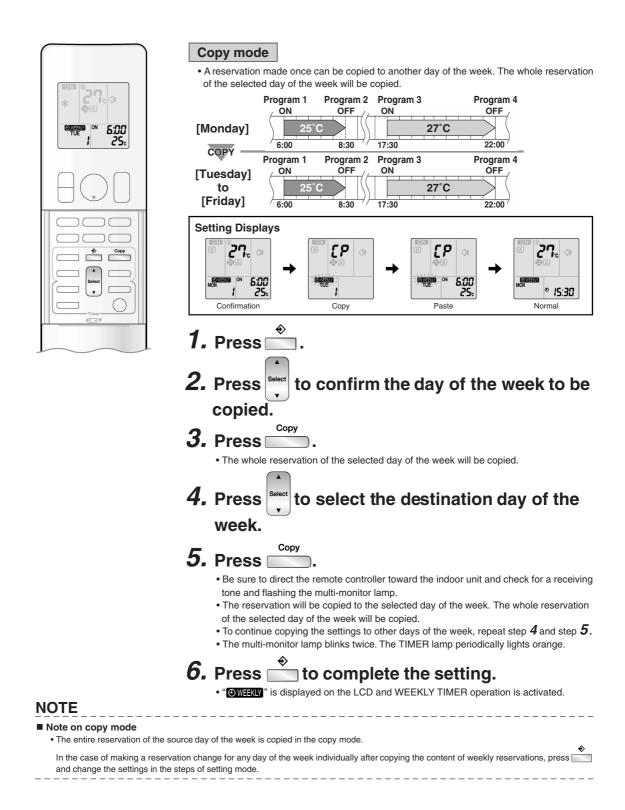
10. Press to complete the setting.

"OWERKY" is displayed on the LCD and WEEKLY TIMER operation is activated.
A reservation made once can be easily copied and the same settings used for another day of the week. Refer to copy mode.

NOTE

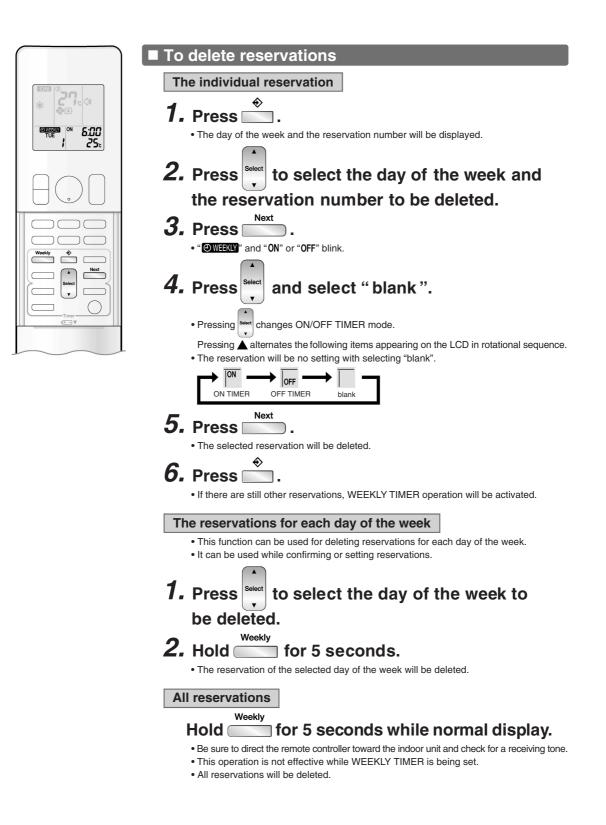
■ Notes on WEEKLY TIMER operation

- Do not forget to set the clock on the remote controller first.
- The day of the week, ON/OFF TIMER mode, time and set temperature (only for ON TIMER mode) can be set with WEEKLY TIMER. Other settings for ON TIMER are based on the settings just before the operation.
- Both WEEKLY TIMER and ON/OFF TIMER operation cannot be used at the same time. The ON/OFF TIMER operation has priority if it is set while WEEKLY TIMER is still active. The WEEKLY TIMER will go into standby state, and "OWEEKLY" will disappear from the LCD. When ON/OFF TIMER is up, the WEEKLY TIMER will automatically become active.
- Shutting the breaker off, power failure, and other similar events will render operation of the indoor unit's internal clock inaccurate. Reset the clock.



	Confirming a reservation
ON ()	The reservation can be confirmed.
	Setting Displays
	Normal Confirmation
	1. Press [◆] .
	• The day of the week and the reservation number of the current day will be displayed.
	2. Press to select the day of the week and the
Select	reservation number to be confirmed.
Timer	• Pressing steet displays the reservation details.
[
	 To change the confirmed reserved settings, select the reservation number and press ^{Next} .
	The mode is switched to setting mode. Go to setting mode step 2 .
	0 - *
	<i>3.</i> Press $\stackrel{\diamond}{=}$ to exit confirming mode.
	To deactivate WEEKLY TIMER operation
	Press while "OWEEKLY" is displayed on
	the LCD.
	• The "OWEEKLY" will disappear from the LCD.
	The TIMER lamp goes off. Weekly To reactivate the WEEKLY TIMER operation, press
	If a reservation deactivated with is activated once again, the last reservation
	mode will be used.

If not all the reservation settings are reflected, deactivate the WEEKLY TIMER operation once. Then press again to reactivate the WEEKLY TIMER operation.



1.16 Other Functions

1.16.1 Hot-Start Function

In order to prevent the cold air blast that normally comes when heating operation is started, the temperature of the indoor heat exchanger is detected, and the airflow is either stopped or made very weak thereby carrying out comfortable heating of the room.

*The cold air blast is also prevented using similar control when the defrost control starts or when the thermostat is turned ON.

1.16.2 Signal Receiving Sign

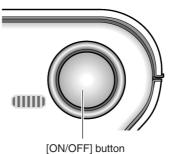
When the indoor unit receives a signal from the remote controller, the unit emits a signal receiving sound.

1.16.3 Indoor Unit [ON/OFF] Button

An [ON/OFF] button is provided on the display of the unit.

- Press the [ON/OFF] button once to start operation. Press once again to stop it.
- The [ON/OFF] button is useful when the remote controller is missing or the battery has run out.
- The operation mode refers to the following table.

Operation mode	Temperature setting	Airflow rate
AUTO	25°C	Automatic



(R18273)

<Forced cooling operation>

Forced cooling operation can be started by pressing the [ON/OFF] button for 5 to 9 seconds while the unit is not operating.

Refer to page 124 for detail.



When the [ON/OFF] button is pressed for 10 seconds or more, the forced cooling operation is stopped.

1.16.4 Titanium Apatite Photocatalytic Air-Purifying Filter

This filter combines the Air-Purifying Filter and Titanium Apatite Photocatalytic Deodorizing Filter as a single highly effective filter. The filter traps microscopic particles, decomposes odors and even deactivates bacteria and viruses. It lasts for 3 years without replacement if washed about once every 6 months.

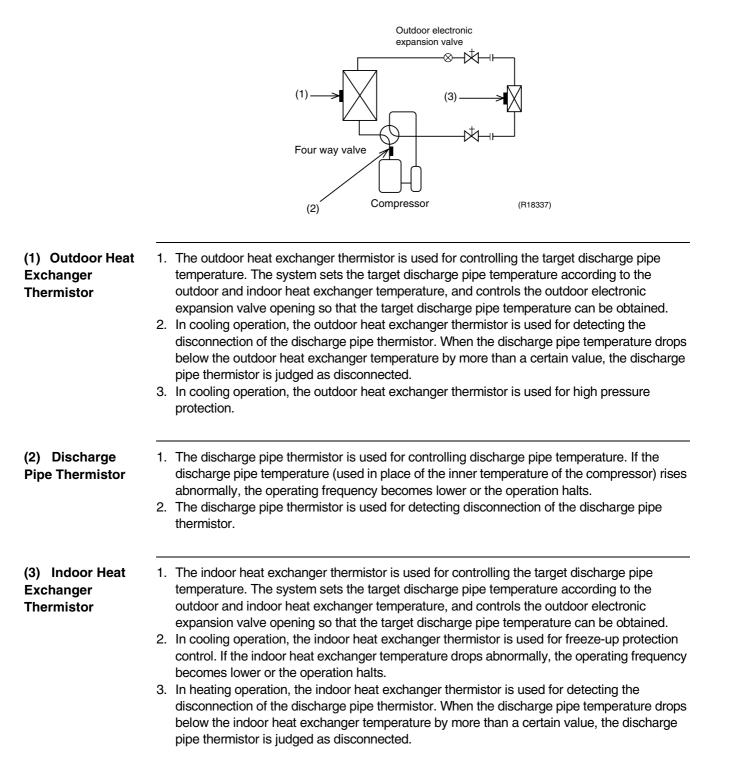
1.16.5 Auto-restart Function

If a power failure (including one for just a moment) occurs during the operation, the operation restarts automatically when the power is restored in the same condition as before the power failure.



It takes 3 minutes to restart the operation because the 3-minute standby function is activated.

2. Function of Thermistor

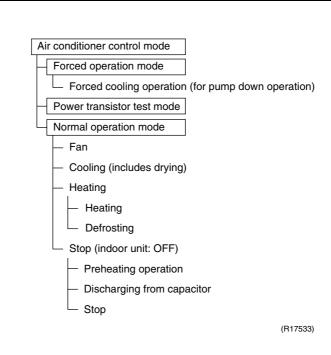


3. Control Specification3.1 Mode Hierarchy

Outline

Air conditioner control has normal operation mode, forced operation mode, and power transistor test mode for installation and servicing.







e: Unless specified otherwise, a dry operation command is regarded as cooling operation.

3.2 Frequency Control

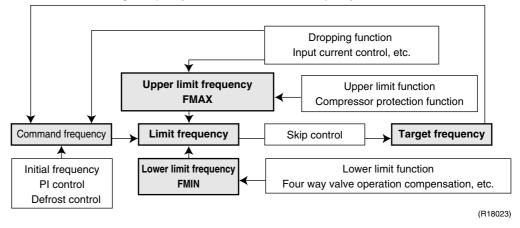
Outline

Frequency is determined according to the difference between the room thermistor temperature and the target temperature.

The function is explained as follows.

- 1. How to determine frequency
- 2. Frequency command from the indoor unit (Difference between the room thermistor temperature and the target temperature)
- 3. Frequency initial setting
- 4. PI control

When the shift of the frequency is less than zero (Δ F<0) by PI control, the target frequency is used as the command frequency.



Detail

How to Determine Frequency

The compressor's frequency is determined by taking the following steps.

1. Determine command frequency

Command frequency is determined in the following order of priority.
 1.Limiting defrost control time
 2.Forced cooling

3.Indoor frequency command

2. Determine upper limit frequency

 The minimum value is set as an upper limit frequency among the frequency upper limits of the following functions:
 Compressor protection, input current, discharge pipe temperature, heating peak-cut, freezeup protection, defrost.

3. Determine lower limit frequency

 The maximum value is set as a lower limit frequency among the frequency lower limits of the following functions:

Four way valve operation compensation, draft prevention, pressure difference upkeep.

4. Determine prohibited frequency

• There is a certain prohibited frequency such as a power supply frequency.

Indoor Frequency Command (△D signal)

The difference between the room thermistor temperature and the target temperature is taken as the " ΔD signal" and is used for frequency command.

Temperature difference	∆D signal	Temperature difference	ΔD signal	Temperature difference	∆D signal	Temperature difference	∆D signal
-2.0	*Th OFF	0	4	2.0	8	4.0	С
-1.5	1	0.5	5	2.5	9	4.5	D
-1.0	2	1.0	6	3.0	A	5.0	E
-0.5	3	1.5	7	3.5	В	5.5	F

*Th OFF = Thermostat OFF

Frequency Initial Setting

<Outline>

When starting the compressor, the frequency is initialized according to the ΔD value and the Q value of the indoor unit.

Q value: Indoor unit output determined from indoor unit volume, airflow rate and other factors.

PI Control (Determine Frequency Up / Down by ΔD Signal)

1. P control

The ΔD value is calculated in each sampling time (15 ~ 20 seconds), and the frequency is adjusted according to its difference from the frequency previously calculated.

2. I control

If the operating frequency does not change for more than a certain fixed time, the frequency is adjusted according to the ΔD value.

When the ΔD value is low, the frequency is lowered.

When the ΔD value is high, the frequency is increased.

3. Frequency management when other controls are functioning

- When frequency is dropping;
- Frequency management is carried out only when the frequency drops.
- For limiting lower limit

Frequency management is carried out only when the frequency rises.

4. Upper and lower limit of frequency by PI control

The frequency upper and lower limits are set according to the command of the indoor unit. When the indoor or outdoor unit quiet operation command comes from the indoor unit, the upper limit frequency is lower than the usual setting.

3.3 Controls at Mode Changing / Start-up

3.3.1 Preheating Control

Outline

The inverter operation in open phase starts with the conditions of the preheating command from the indoor unit, the outdoor temperature, and the discharge pipe temperature.

Detail

Outdoor temperature $\ge \mathbf{A}^{\circ}\mathbf{C} \rightarrow \text{Control I}$ Outdoor temperature $< \mathbf{A}^{\circ}\mathbf{C} \rightarrow \text{Control II}$

Control I

- ON condition
 - Discharge pipe temperature < B°C OFF condition
 - Discharge pipe temperature > $C^{\circ}C$ Radiation fin temperature > 90°C

Control II

- ON condition
 Discharge pipe temperature < D°C
- OFF condition Discharge pipe temperature > E°C Radiation fin temperature ≥ 90°C

	A (°C)	B (°C)	C (°C)	D (°C)	E (°C)
RXG25/35J2V1B, RXG25/35K2V1B	7	10	12	20	22
RXG50K2V1B	10	6	8	10.5	12
RXG25/35/50K3V1B	-2.5	0	2	10	12

3.3.2 Four Way Valve Switching

Outline

In heating operation, current is conducted, and in cooling operation and defrost control, current is not conducted. In order to eliminate the switching sound as the four way valve coil switches from ON to OFF when the heating is stopped, the OFF delay switch of the four way valve is carried out.

Detail

OFF delay switch of four way valve:

The four way valve coil is energized for 150 ~ 160 seconds after the operation is stopped.

3.3.3 Four Way Valve Operation Compensation

Outline

At the beginning of the operation as the four way valve is switched, the pressure difference to activate the four way valve is acquired by having output frequency which is more than a certain fixed frequency, for a certain fixed time.

Detail

Starting Conditions

- 1. When the compressor starts and the four way valve switches from OFF to ON
- 2. When the four way valve switches from ON to OFF during operation
- 3. When the compressor starts after resetting
- 4. When the compressor starts after the fault of four way valve switching

The lower limit of frequency keeps **A** Hz for **B** seconds with any conditions 1 through 4 above.

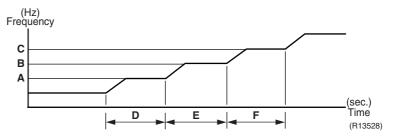
	25/35	class	50 class		
	Cooling Heating		Cooling	Heating	
A (Hz)	68	66	48		
B (seconds)	45		7	0	

3.3.4 3-minute Standby

Turning on the compressor is prohibited for 3 minutes after turning it off. (Except when defrosting.)

3.3.5 Compressor Protection Function

When turning the compressor from OFF to ON, the upper limit of frequency is set as follows. (The function is not activated when defrosting.)



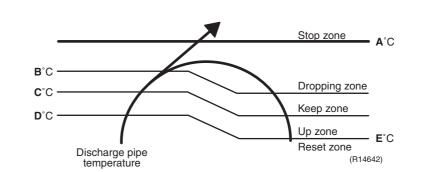
	25/35 class	50 class
A (Hz)	48	55
B (Hz)	64	70
C (Hz)	88	85
D (seconds)	240	120
E (seconds)	360	200
F (seconds)	180	470

3.4 Discharge Pipe Temperature Control

Outline

The discharge pipe temperature is used as the internal temperature of the compressor. If the discharge pipe temperature rises above a certain level, the upper limit of frequency is set to keep the discharge pipe temperature from rising further.

Detail



Zone	Control
Stop zone	When the temperature reaches the stop zone, the compressor stops.
Dropping zone	The upper limit of frequency decreases.
Keep zone	The upper limit of frequency is kept.
Up zone	The upper limit of frequency increases.
Reset zone	The upper limit of frequency is canceled.

	25/35 class	50 class
A (°C)	110	110
B (°C)	105	103
C (°C)	101	101.5
D (°C)	99	100
E (°C)	97	95

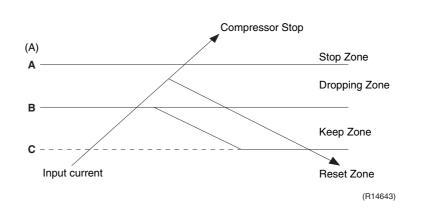
3.5 Input Current Control

Outline

The microcomputer calculates the input current while the compressor is running, and sets the frequency upper limit from the input current.

In case of heat pump models, this control which is the upper limit control of the frequency takes priority over the lower limit of control of four way valve operation compensation.

Detail



Frequency control in each zone

- Stop zone
- After 2.5 seconds in this zone, the compressor is stopped.

Dropping zone

- The upper limit of the compressor frequency is defined as operation frequency 2 Hz.
- After this, the output frequency is lowered by 2 Hz every second until it reaches the keep zone.

Keep zone

• The present maximum frequency goes on.

Reset zone

• Limit of the frequency is canceled.

	25 c	25 class 35 class		RXG50	K2V1B	RXG50K3V1B		
	Cooling	Heating	Cooling Heating		Cooling	Heating	Cooling	Heating
A (A)	9.:	25	9.25		20.0		20.0	
B (A)	6.25	7.5	8.25		10.0	15.0	13.0	15.0
C (A)	5.5	6.75	7.5		9.0	14.0	12.0	14.0

Limitation of current dropping and stop value according to the outdoor temperature

• The current drops when outdoor temperature becomes higher than a certain level (depending on the model).

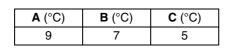
(R14718)

3.6 Freeze-up Protection Control

Outline

During cooling operation, the signal sent from the indoor unit controls the operating frequency limitation and prevents freezing of the indoor heat exchanger. (The signal from the indoor unit is divided into zones.)

Detail



Keep zone

Stop zone

Dropping zone

B°C

C°C

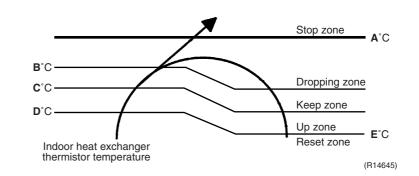
0°C

3.7 Heating Peak-cut Control

Outline

During heating operation, the indoor heat exchanger temperature determines the frequency upper limit to prevent abnormal high pressure.

Detail



Zone	Control
Stop zone	When the temperature reaches the stop zone, the compressor stops.
Dropping zone	The upper limit of frequency decreases.
Keep zone	The upper limit of frequency is kept.
Up zone	The upper limit of frequency increases.
Reset zone	The upper limit of frequency is canceled.

	25/35 class	50 class
A (°C)	65	65
B (°C)	56	56
C (°C)	53	55
D (°C)	51	53
E (°C)	46	51

3.8 Outdoor Fan Control

1. Fan ON control to cool down the electrical box

The outdoor fan is turned ON when the electrical box temperature is high while the compressor is OFF.

2. Fan OFF control during defrosting

The outdoor fan is turned OFF during defrosting.

3. Fan OFF delay when stopped

The outdoor fan is turned OFF 60 seconds after the compressor stops.

4. Fan speed control for pressure difference upkeep

The rotation speed of the outdoor fan is controlled for keeping the pressure difference during cooling operation with low outdoor temperature.

- When the pressure difference is low, the rotation speed of the outdoor fan is reduced.
- When the pressure difference is high, the rotation speed of the outdoor fan is controlled as well as normal operation.

5. Fan speed control during forced cooling operation

The outdoor fan is controlled as well as normal operation during forced cooling operation.

6. Fan speed control during POWERFUL operation

The rotation speed of the outdoor fan is increased during POWERFUL operation.

7. Fan speed control during indoor / outdoor unit quiet operation

The rotation speed of the outdoor fan is reduced by the command of the indoor / outdoor unit quiet operation.

8. Fan ON/OFF control when operation starts / stops

The outdoor fan is turned ON when the operation starts. The outdoor fan is turned OFF when the operation stops.

3.9 Liquid Compression Protection Function

Outline

In order to obtain the dependability of the compressor, the compressor is stopped according to the outdoor temperature and the outdoor heat exchanger temperature.

Detail

Operation stops depending on the outdoor temperature. Compressor turns off under the conditions that the system is in cooling operation and outdoor temperature is below -12°C.

3.10 Defrost Control

Outline

Defrosting is carried out by the cooling cycle (reverse cycle). The defrosting time or outdoor heat exchanger temperature must be more than a certain value to finish.

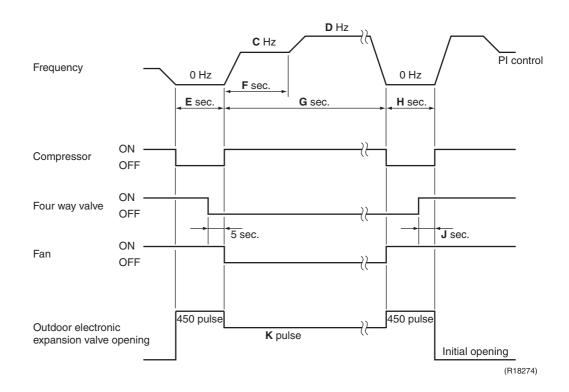
Detail

Conditions for Starting Defrost

- The starting conditions are determined with the outdoor temperature and the outdoor heat exchanger temperature.
- The system is in heating operation.
- The compressor operates for 6 minutes.
- More than A minutes of accumulated time pass after the start of the operation, or ending the previous defrosting.

Conditions for Canceling Defrost

The judgment is made with the outdoor heat exchanger temperature. (B°C)



	25/35 class	RXG50K2V1B	RXG50K3V1B
A (minutes)	28	44	44
B (°C)	4 ~18	4 ~12	4 ~12
C (Hz)	76	55	55
D (Hz)	86	90	90
E (seconds)	50	60	60
F (seconds)	60	120	120
G (seconds)	480	340	340
H (seconds)	60	50	50
J (seconds)	5	15	5
K (pulse)	350	450	450

3.11 Outdoor Electronic Expansion Valve Control

Outline

The following items are included in the outdoor electronic expansion valve control. **Outdoor electronic expansion valve is fully closed.**

- 1. Outdoor electronic expansion valve is fully closed when turning on the power.
- 2. Pressure equalizing control

Open Control

- 1. Outdoor electronic expansion valve control when starting operation
- 2. Outdoor electronic expansion valve control when the frequency changes
- 3. Outdoor electronic expansion valve control for defrosting
- 4. Outdoor electronic expansion valve control when the discharge pipe temperature is abnormally high
- 5. Outdoor electronic expansion valve control when the discharge pipe thermistor is disconnected

Feedback Control

Target discharge pipe temperature control

Detail

The followings are the examples of outdoor electronic expansion valve control which function in each operation mode.

● : Holding Functions — : No Functions	When the power turns on or when the compressor stops	When the operation starts	When the frequency changes under starting control	During target discharge pipe temperature control	When the frequency changes under target discharge pipe temperature control	When the disconnection of the discharge pipe thermistor is ascertained	When the frequency changes under the control for disconnection of the discharge pipe thermistor	Under defrost control
Cooling								
Starting control	-	•	-	-	-	-	-	-
Control when the frequency changes	-	-	•	-	•	-	-	-
Target discharge pipe temperature control	-	-	_	•	-	-	_	Ι
Control for disconnection of the discharge pipe thermistor	Ι	-	-	-	-	•	•	Ι
High discharge pipe temperature control	-	•	•	•	•	-	-	-
Pressure equalizing control	•	-	-	-	-	-	-	-
Opening limit control	-	•	•	•	•	•	•	-
Heating								
Starting control	-	٠	-	-	-	-	-	-
Control when the frequency changes	-	-	•	-	•	-	-	-
Target discharge pipe temperature control	-	-	_	•	-	-	_	-
Control for disconnection of the discharge pipe thermistor	-	-	-	-	-	•	•	-
High discharge pipe temperature control	-	•	•	•	•	-	-	-
Defrost control	-	-	-	-	-	-	-	•
Pressure equalizing control	•	-	-	-	-	-	-	-
Opening limit control	-	•	•	•	•	•	•	-

3.11.1 Fully Closing with Power ON

The outdoor electronic expansion valve is initialized when turning on the power. The opening position is set and the pressure equalization is developed.

3.11.2 Pressure Equalizing Control

When the compressor is stopped, the pressure equalizing control is activated. The outdoor electronic expansion valve opens, and develops the pressure equalization.

3.11.3 Opening Limit Control

Outline

A maximum and minimum opening of the outdoor electronic expansion valve are limited.

Detail

	25/35 class	50 class
Maximum opening (pulse)	480	480
Minimum opening (pulse)	52	54

The outdoor electronic expansion valve is fully closed when cooling operation stops, and is opened at fixed degree during defrosting.

3.11.4 Starting Operation Control

The outdoor electronic expansion valve opening is controlled when the operation starts, and prevents the superheating or liquid compression.

3.11.5 Control when the Frequency Changes

When the target discharge pipe temperature control is active, if the target frequency is changed for a specified value in a certain time period, the target discharge pipe temperature control is canceled and the target opening of the outdoor electronic expansion valve is changed according to the shift.

3.11.6 High Discharge Pipe Temperature

When the compressor is operating, if the discharge pipe temperature exceeds a certain value, the outdoor electronic expansion valve opens and the refrigerant runs to the low pressure side. This procedure lowers the discharge pipe temperature.

3.11.7 Control for Disconnection of the Discharge Pipe Thermistor

Outline	is detected by comparing the discharge pipe the discharge pipe thermistor is lve opens according to the outdoor s for a specified time, and then stops. if the discharge pipe thermistor is sconnected, the system stops after operating tem is shut down. When the compressor runs is reset.			
Detail	for disconnection the following adju 1. When the ope When the follo ascertained. Discharge pip 2. When the ope When the follo ascertained.	of the discharge ustment is made. eration mode is co owing condition is be temperature + eration mode is he owing condition is	pipe thermistor (coling s fulfilled, the disc 6°C < outdoor he eating s fulfilled, the disc	ting: B seconds) finishes, the detection timer (C seconds) starts. When the timer is over, charge pipe thermistor disconnection is eat exchanger temperature charge pipe thermistor disconnection is at exchanger temperature
		25/35 class	50 class	
	A (seconds)	10	10	
	B (seconds)	120	30	
	C (seconds)	810	540	

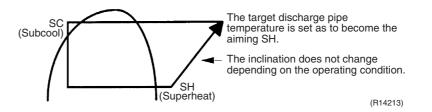
Adjustment when the thermistor is disconnected

When the disconnection is ascertained, the compressor continues operation for 9 minutes and then stops.

If the compressor stops repeatedly, the system is shut down.

3.11.8 Target Discharge Pipe Temperature Control

The target discharge pipe temperature is obtained from the indoor and outdoor heat exchanger temperature, and the outdoor electronic expansion valve opening is adjusted so that the actual discharge pipe temperature becomes close to the target discharge pipe temperature. (Indirect SH (superheating) control using the discharge pipe temperature)



The outdoor electronic expansion valve opening and the target discharge pipe temperature are adjusted every 20 seconds. The target discharge pipe temperature is controlled by indoor heat exchanger temperature and outdoor heat exchanger temperature. The opening degree of the outdoor electronic expansion valve is controlled by the followings.

- Target discharge pipe temperature
- Actual discharge pipe temperature
- Previous discharge pipe temperature

3.12 Malfunctions

3.12.1 Sensor Malfunction Detection

Sensor malfunction may occur in the thermistor.

Relating to Thermistor Malfunction

- 1. Outdoor heat exchanger thermistor
- 2. Discharge pipe thermistor
- 3. Radiation fin thermistor
- 4. Outdoor temperature thermistor

3.12.2 Detection of Overcurrent and Overload

Outline

An excessive output current is detected and the OL temperature is observed to protect the compressor.

Detail

- If the OL (compressor head) temperature exceeds 120°C, the system shuts down the compressor.
- If the inverter current exceeds 9.25 ~ 20 A (depending on the model), the system shuts down the compressor.

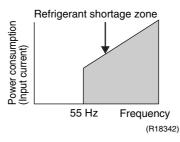
3.12.3 Refrigerant Shortage Control

Outline

I: Detecting by power consumption

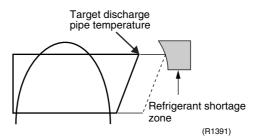
If the power consumption is below the specified value and the frequency is higher than the specified frequency, it is regarded as refrigerant shortage.

The power consumption is low comparing with that in the normal operation when refrigerant is insufficient, and refrigerant shortage is detected by checking power consumption.



II: Detecting by discharge pipe temperature

If the discharge pipe temperature is higher than the target discharge pipe temperature, and the outdoor electronic expansion valve is fully open for more than the specified time, it is regarded as refrigerant shortage.



III: Detecting by the difference of temperature

If the difference between suction and discharge temperature is smaller than the specified value, it is regarded as refrigerant shortage.

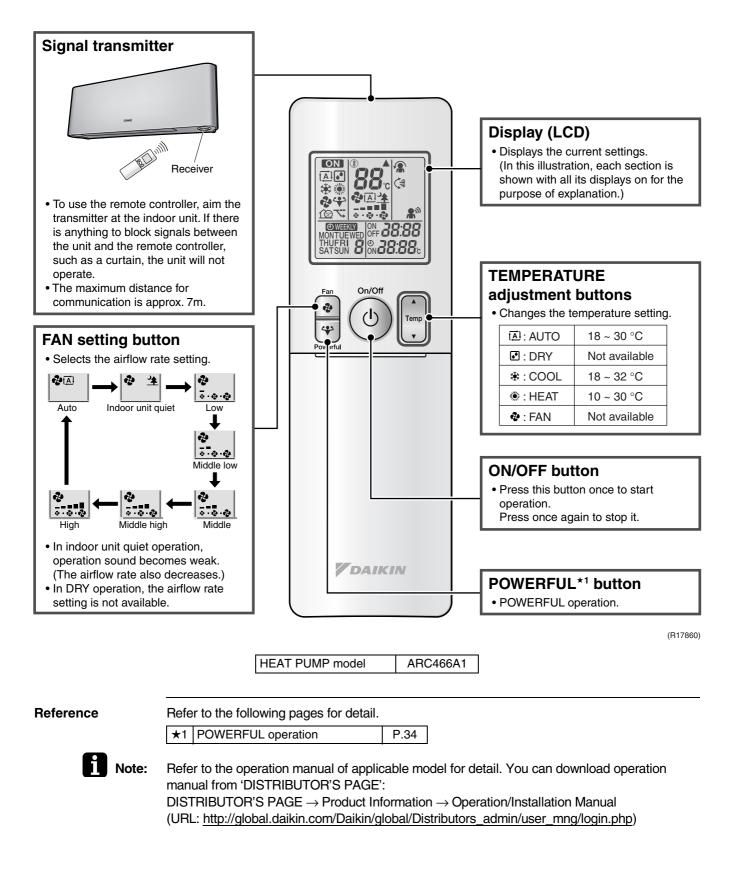


Refer to page 75 for detail.

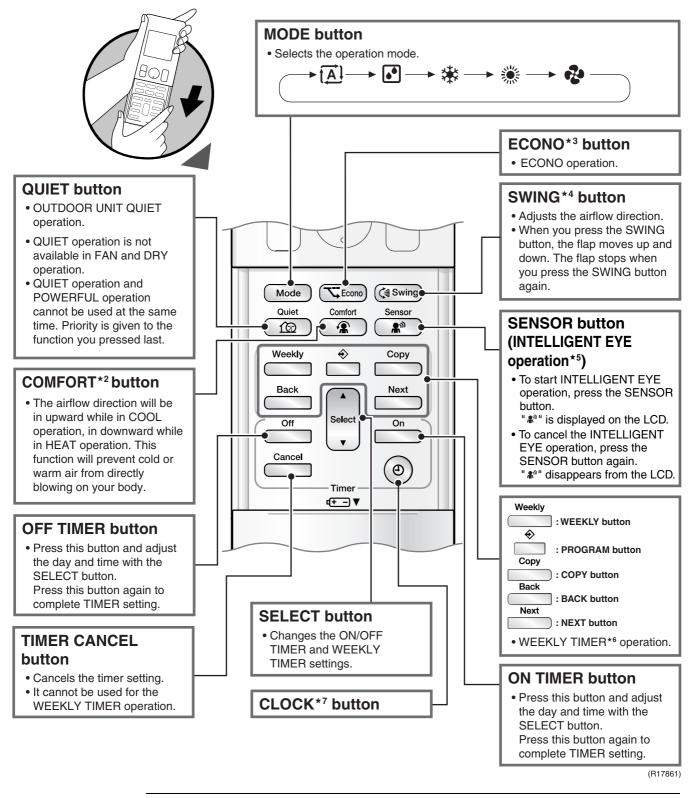
Part 5 Remote Controller

1.	FTXG25/35/50JV1BW(S)(A)	59	
••		00	

1. FTXG25/35/50JV1BW(S)(A)



Open the Front Cover



Reference

Refer to the following pages for detail.

★2	COMFORT AIRFLOW operation	P.26, 27	★5	INTELLIGENT EYE operation	P.33
★3	ECONO operation	P.32	★6	WEEKLY TIMER operation	P.37
★4	Auto swing setting	P.26	★7	Clock setting	P.36

Note:

Refer to the operation manual of applicable model for detail. You can download operation manual from 'DISTRIBUTOR'S PAGE':

Part 6 Service Diagnosis

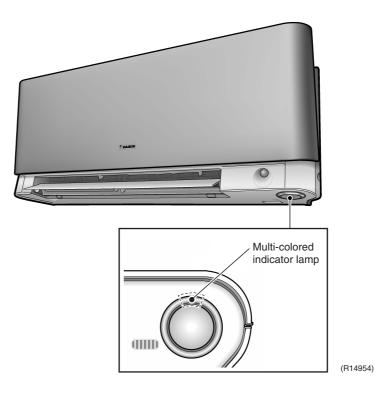
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	4.10 Signal Transmission Error on Outdoor Unit PCB	
	(RXG50K2V1B Only)	
	4.11 Unspecified Voltage (between Indoor Unit and Outdoor Unit)	
	4.12 Outdoor Unit PCB Abnormality	
	4.13 OL Activation (Compressor Overload)	
	4.14 Compressor Lock	
	4.15 DC Fan Lock	
	4.16 Input Overcurrent Detection	
	4.17 Four Way Valve Abnormality	
	4.18 Discharge Pipe Temperature Control	
	4.19 High Pressure Control in Cooling	
	4.20 Compressor System Sensor Abnormality	
	4.21 Position Sensor Abnormality	
	4.22 DC Voltage / Current Sensor Abnormality (25/35 Class Only)	
	4.23 CT or Related Abnormality (RXG50K2V1B Only)	
	4.24 Thermistor or Related Abnormality (Outdoor Unit)	
	4.25 Electrical Box Temperature Rise	
	4.26 Radiation Fin Temperature Rise	
_	4.27 Output Overcurrent Detection	
5.	Check	
	5.1 Thermistor Resistance Check	
	5.2 Fan Motor Connector Output Check	
	5.3 Power Supply Waveforms Check	
	5.4 Outdoor Electronic Expansion Valve Check	
	5.5 Four Way Valve Performance Check	
	5.6 Inverter Units Refrigerant System Check	
	5.7 Inverter Analyzer Check5.8 Rotation Pulse Check on the Outdoor Unit PCB	
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5.12 Main Circuit Short Check	118
5.13 Capacitor Voltage Check	119
5.14 Power Module Check	120

Troubleshooting with LED Indoor Unit

Operation Lamp

- The multi-colored indicator lamp blinks when any of the following errors is detected.
- 1. When a protection device of the indoor or outdoor unit is activated, or when the thermistor malfunctions.
- 2. When a signal transmission error occurs between the indoor and outdoor units.
- In either case, conduct the diagnostic procedure described in the following pages.



Service Monitor The indoor unit has one green LED (LED A) on the control PCB. When the microcomputer works in order, the LED A blinks.

1.2 Outdoor Unit

The outdoor unit has one green LED (LED A) on the PCB. When the microcomputer works in order, the LED A blinks.

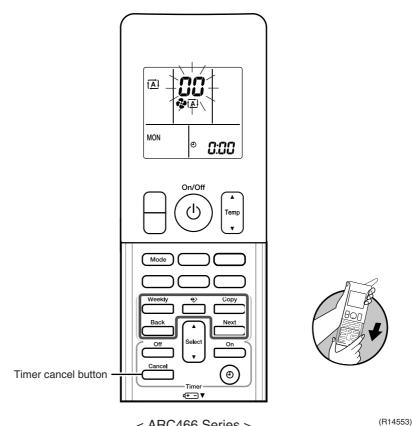
2. Problem Symptoms and Measures

Symptom	Check Item	Details of Measure	Reference Page
The unit does not operate.	Check the power supply.	Check if the rated voltage is supplied.	—
	Check the type of the indoor unit.	Check if the indoor unit type is compatible with the outdoor unit.	_
	Check the outdoor temperature.	Heating operation cannot be used when the outdoor temperature is 18° CWB or higher, and cooling operation cannot be used when the outdoor temperature is below $-10 \sim 10^{\circ}$ CDB (depending on the model).	_
	Diagnose with remote controller indication.	_	68
	Check the remote controller addresses.	Check if address settings for the remote controller and indoor unit are correct.	127
Operation sometimes stops.	Check the power supply.	A power failure of 2 to 10 cycles stops air conditioner operation. (Operation lamp OFF)	_
	Check the outdoor temperature.	Heating operation cannot be used when the outdoor temperature is 18° CWB or higher, and cooling operation cannot be used when the outdoor temperature is below $-10 \sim 10^{\circ}$ CDB (depending on the model).	_
	Diagnose with remote controller indication.	_	68
The unit operates but does not cool, or does not heat.	Check for wiring and piping errors in the connection between the indoor unit and outdoor unit.	_	_
	Check for thermistor detection errors.	Check if the thermistor is mounted securely.	_
	Check for faulty operation of the outdoor electronic expansion valve.	Set the unit to cooling operation, and check the temperature of the liquid pipe to see if the outdoor electronic expansion valve works.	_
	Diagnose with remote controller indication.	_	68
	Diagnose by service port pressure and operating current.	Check for refrigerant shortage.	75
Large operating noise and vibrations	Check the output voltage of the power module.	_	120
	Check the power module.		_
	Check the installation condition.	Check if the required spaces for installation (specified in the installation manual) are provided.	_

3. Service Check Function

Check Method 1

1. When the timer cancel button is held down for 5 seconds, 32 is displayed on the temperature display screen.



< ARC466 Series >

2. Press the timer cancel button repeatedly until a long beep sounds.

	The code indication changes in the sequence shown below.
--	--

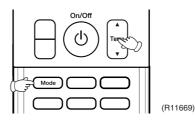
No.	Code	No.	Code	No.	Code
1	88	13	57	25	UR
2	<i>U</i> 4	14	83	26	UК
3	LS	15	X8	27	<i>P</i> 4
4	88	16	XS	28	13
5	XS	17	63	29	14
6	XC	18	64	30	83
7	88	19	εs	31	U2
8	£7	20	<i>3</i> 3	32	88
9	uв	21	<i>3</i> 8	33	88
10	83	22	٤S	34	F8
11	<i>8</i> 5	23	8;	35	81
12	۶8	24	81	36	<i>P</i> 3



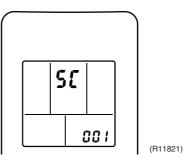
- 1. A short beep or two consecutive beeps indicate non-corresponding codes.
- 2. To return to the normal mode, hold the timer cancel button down for 5 seconds. When the remote controller is left untouched for 60 seconds, it also returns to the normal mode.
- 3. Not all the error codes are displayed. When you cannot find the error code, try the check method 2. (\rightarrow Refer to page 66.)

Check Method 2

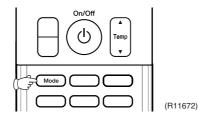
1. Press the center of the [Temp] button and the [Mode] button at the same time.



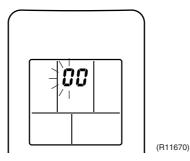
SC is displayed on the LCD.



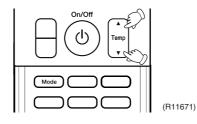
- 2. Select S: (service check) with the [Temp] \blacktriangle or \triangledown button.
- 3. Press the [Mode] button to enter the service check mode.



The left-side number blinks.



4. Press the [Temp] ▲ or ▼ button and change the number until you hear the two consecutive beeps or the long beep.

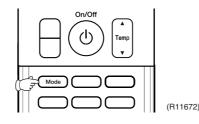


5. Diagnose by the sound.

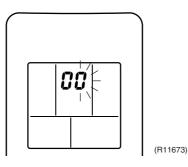
 \star beep : The left-side number does not correspond with the error code.

★two consecutive beeps : The left-side number corresponds with the error code but the right-side number does not.

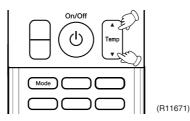
- ★long beep : Both the left-side and right-side numbers correspond with the error code. (The numbers indicated when you hear the long beep are the error code. → Refer to page 68.)
- 6. Press the [Mode] button.



The right-side number blinks.



7. Press the [Temp] \blacktriangle or \triangledown button and change the number until you hear the long beep.



8. Diagnose by the sound.

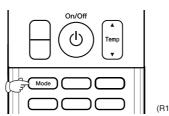
★beep : The left-side number does not correspond with the error code.
 ★two consecutive beeps : The left-side number corresponds with the error code but the right-side number does not.

★long beep : Both the left-side and right-side numbers correspond with the error code.

9. Determine the error code.

The numbers indicated when you hear the long beep are the error code. Error codes and description \rightarrow Refer to page 68.

 Press the [Mode] button for 5 seconds to exit from the service check mode. (When the remote controller is left untouched for 60 seconds, it returns to the normal mode also.)



Service Diagnosis

4. Troubleshooting

4.1 Error Codes and Description

	Error Codes	Description	Reference Page
System	88	Normal	_
	uu*	Refrigerant shortage	75
	42	Low-voltage detection or over-voltage detection	78
	김옥	Signal transmission error (between indoor unit and outdoor unit)	80
	U8	Unspecified voltage (between indoor unit and outdoor unit)	83
Indoor Unit	81	Indoor unit PCB abnormality	69
Unit	85	Freeze-up protection control or heating peak-cut control	70
	88	Fan motor (DC motor) or related abnormality	71
	64	Indoor heat exchanger thermistor or related abnormality	73
	<u>[]</u>	Front panel open / close fault	74
	63	Room temperature thermistor or related abnormality	73
Outdoor Unit	81	Outdoor unit PCB abnormality	84
Onic	85 *	OL activation (compressor overload)	86
	88 ★	Compressor lock	88
	£7 ★	DC fan lock	89
	88	Input overcurrent detection	90
	88	Four way valve abnormality	91
	83	Discharge pipe temperature control	93
	88	High pressure control in cooling	94
	80	Compressor system sensor abnormality	95
	X8	Position sensor abnormality	97
	X8	DC voltage / current sensor abnormality (25/35 class only)	100
	10	CT or related abnormality (RXG50K2V1B only)	101
	X3	Outdoor temperature thermistor or related abnormality	103
	13 ×	Discharge pipe thermistor or related abnormality	103
	JS	Outdoor heat exchanger thermistor or related abnormality	103
	13	Electrical box temperature rise	105
	14	Radiation fin temperature rise	106
	L5 ★	Output overcurrent detection	108
	рч	Radiation fin thermistor or related abnormality	103
	มา	Signal transmission error on outdoor unit PCB (RXG50K2V1B only)	82

★: Displayed only when system-down occurs.

Indoor Unit PCB Abnormality 4.2 81 **Error Code** Method of Error The system checks if the circuit works properly within the microcomputer of the indoor unit. Detection The system cannot set the internal settings. **Error Decision** Conditions Supposed Wrong models interconnected Causes Defective indoor unit PCB Disconnection of connector Reduction of power supply voltage Troubleshooting Be sure to turn off the power switch before connecting or disconnecting Caution connectors, or parts may be damaged. Check the combination of the indoor and outdoor unit. NO OK? Match the compatible models. YES To secure the connection, Check the connection of once disconnect the connector connectors (See Note.). and then reconnect it. YES Check the power supply OK? voltage. NO NO Correct the power Voltage as rated? supply. YES Start operation. Correct the connection. YES Error repeats? Replace the indoor unit PCB (1). NO Completed. YES Check the power supply Error repeats? voltage. NO NO Voltage as rated? Correct the power supply. YES Start operation. YES Error repeats? Replace the indoor unit PCB (1). NO Completed. Completed. (R15270) Note: Check the following connector. Model Type Connector Terminal board ~ Control PCB (H1, H2, H3) Wall mounted type

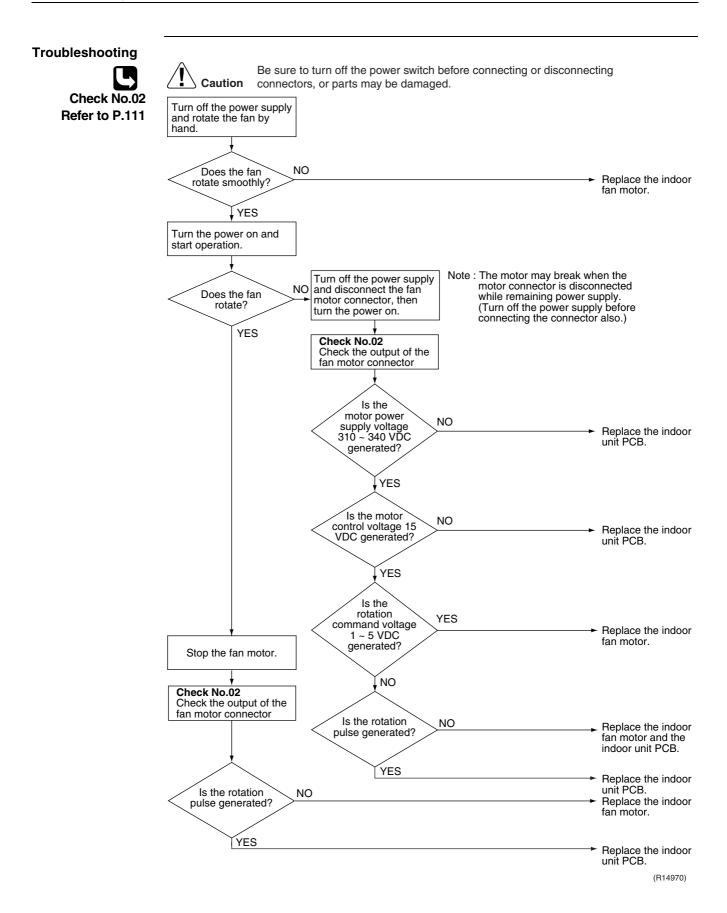
4.3 Freeze-up Protection Control or Heating Peak-cut Control

E e e e e e e	85
Error Code	···
Method of Error Detection	 Freeze-up protection control During cooling operation, the freeze-up protection control (operation halt) is activated according to the temperature detected by the indoor heat exchanger thermistor. Heating peak-cut control During heating operation, the temperature detected by the indoor heat exchanger thermistor is used for the heating peak-cut control (operation halt, outdoor fan stop, etc.)
Error Decision Conditions	 Freeze-up protection control During cooling operation, the indoor heat exchanger temperature is below 0°C. Heating peak-cut control During heating operation, the indoor heat exchanger temperature is above 65°C.
Supposed Causes	 Short-circuited air Clogged air filter of the indoor unit Dust accumulation on the indoor heat exchanger Defective indoor heat exchanger thermistor Defective indoor unit PCB
Troubleshooting Check No.01 Refer to P.110	Caution Be sure to turn off the power switch before connecting or disconnecting connectors, or parts may be damaged. Check the air passage.
	Is there any short circuit? YES Provide sufficient air passage.
	Check the air filter.
	Check the dust accumulation on the indoor heat exchanger.
	As described in the thermistor characteristic chart?
	YES Replace the indoor unit PCB.
	(R15715)

4.4 Fan Motor (DC Motor) or Related Abnormality

Error Code	88
Method of Error Detection	The rotation speed detected by the Hall IC during fan motor operation is used to determine abnormal fan motor operation.
Error Decision Conditions	The detected rotation speed does not reach the demanded rotation speed of the target tap, and is less than 50% of the maximum fan motor rotation speed.
Supposed Causes	 Layer short inside the fan motor winding Breaking of wire inside the fan motor Breaking of the fan motor lead wires Defective capacitor of the fan motor

Defective indoor unit PCB



4.5 Thermistor or Related Abnormality (Indoor Unit)

Error Code	C4,C3
Method of Error Detection	The temperatures detected by the thermistors determine thermistor errors.
Error Decision Conditions	The thermistor input is more than 4.96 V or less than 0.04 V during compressor operation.
Supposed Causes	 Disconnection of connector Defective thermistor Defective indoor unit PCB
Troubleshooting Check No.01 Refer to P.110	Image: Caution interview Be sure to turn off the power switch before connecting or disconnecting connectors, or parts may be damaged. Image: Check the connection of connectors. Image: Check the connection of connectors. Image: No correct the connection. Image: Check No. 01 Check the thermistor resistance value.
	Normal? NO Replace the thermistor.
	YES Replace the indoor unit PCB.
	(R15717)

१५ : Indoor heat exchanger thermistor

 $\mathcal{L}\mathcal{G}$: Room temperature thermistor

4.6 Front Panel Open / Close Fault

Error Code	<u>[]</u>
Method of Error Detection	
Error Decision Conditions	If the error repeats, the system is shut down.
Supposed Causes	 Defective reduction motor Malfunction or deterioration of the front panel mechanism Defective limit switch
Troubleshooting	Image: Note of the series of the power switch before connecting or disconnecting on disconnect

(R17249)

Note: You cannot operate the unit by the remote controller when the front panel mechanism breaks down.

<To the dealers: temporary measure before repair>

- 1. Turn off the power.
- 2. Remove the front panel.
- 3. Turn on the power.

(Wait until the initialization finishes.)

4. Operate the unit by the indoor unit [ON/OFF] button.

4.7 Refrigerant Shortage

Error Code	10				
Method of Error	Refrigerant shor	tage detection I	•		
Detection	Refrigerant shorta	age is detected b	y checking the ir	•	e and the compressor er than the normal value.
	Refrigerant shor	tage detection I	l:		
	Refrigerant shorta	age is detected by	y checking the di	scharge pipe tem	perature and the opening of
	the outdoor electr	onic expansion v	alve. If the refrig	gerant is short, the	e discharge pipe
	temperature tend	s to rise.			
	Refrigerant shor	tage detection I	II:		
	Refrigerant shorta	age is detected b	y checking the d	lifference betwee	n suction and discharge
	temperature.				
Error Decision	Refrigerant shor	tage detection I	:		
Conditions	The following conditions continue for 7 minutes.				
	<25/35 class, RXG50K3V1B>				
	• Input current × input voltage \leq A × output frequency + B				
 Output frequency > C 					
		A (–)	B (W)	C (Hz)]
	25/35 class	640/256	0	55	
	RXG50K3V1B	2000/256	-181	55]
	<rxg50k2v1b></rxg50k2v1b>				
	• Input current \leq D × output frequency + E				
	 Output frequency > F 				
					1

D (-) E (A) F (Hz) RXG50K2V1B 18/1000 0.7 55

Refrigerant shortage detection II:

The following conditions continue for 80 seconds.

- Opening of the outdoor electronic expansion valve $\geq {\bm G}$
- Discharge pipe temperature > H × target discharge pipe temperature + J

	G (pulse)	H (–)	J (°C)
25/35 class	480	128/128	30
RXG50K2V1B	480	128/128	cooling: 20, heating: 45
RXG50K3V1B	480	128/128	cooling: 60, heating: 45

Refrigerant shortage detection III: (25/35 class only)

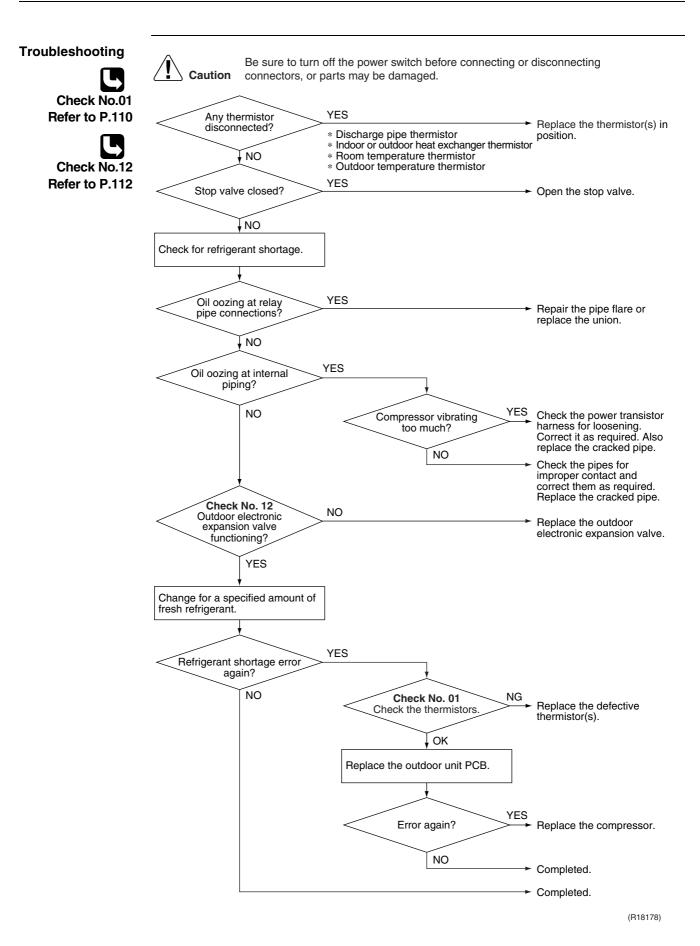
When the difference of the temperature is smaller than $K^{\circ}C$, it is regarded as refrigerant shortage.

Operation mode	Description	K (°C)
Cooling	room thermistor temperature – indoor heat exchanger temperature	4.0
	outdoor heat exchanger temperature – outdoor temperature	4.0
Heating	indoor heat exchanger temperature – room thermistor temperature	3.0
	outdoor temperature – outdoor heat exchanger temperature	3.0

- If the error repeats, the system is shut down.
- Reset condition: Continuous run for about 60 minutes without any other error

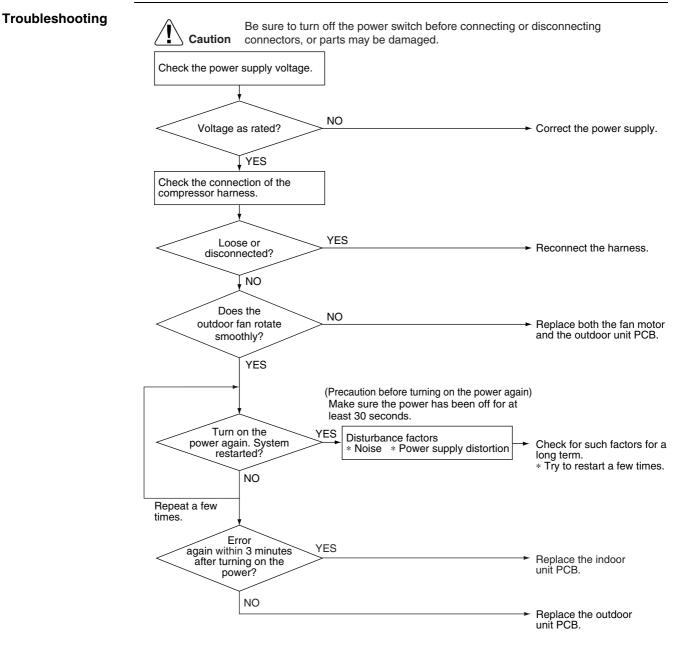
Supposed Causes

- Disconnection of the discharge pipe thermistor, indoor or outdoor heat exchanger thermistor, room or outdoor temperature thermistor
- Closed stop valve
- Refrigerant shortage (refrigerant leakage)
- Poor compression performance of compressor
- Defective outdoor electronic expansion valve



4.8 Low-voltage Detection or Over-voltage Detection

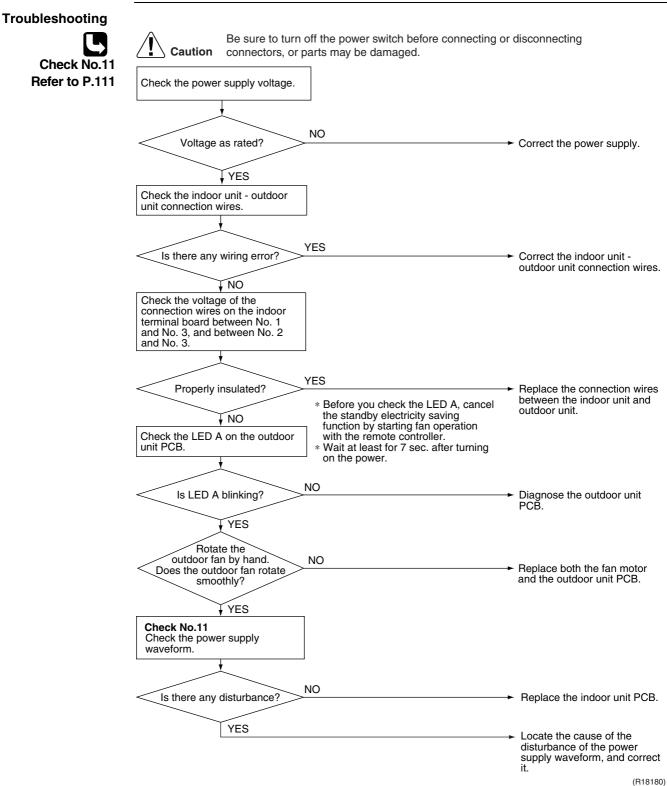
Error Code				
Method of Error Detection	★ Indoor Unit			
	The zero-cross detection of the power supply is evaluated by the indoor unit PCB.			
	★ Outdoor Unit			
	Low-voltage detection: An abnormal voltage drop is detected by the DC voltage detection circuit.			
	Over-voltage detection: An abnormal voltage rise is detected by the over-voltage detection circuit.			
Error Decision Conditions	★ Indoor Unit			
Conditions	There is no zero-cross detection in approximately 10 seconds.			
	★ Outdoor Unit			
	Low-voltage detection:			
	The voltage detected by the DC voltage detection circuit is below 150 ~ 180 V (depending on the model).			
	The compressor stops if the error occurs, and restarts automatically after 3-minute standby.			
	Over-voltage detection:			
	 An over-voltage signal is fed from the over-voltage detection circuit to the microcomputer. The compressor stops if the error occurs, and restarts automatically after 3-minute standby. 			
Supposed	 Power supply voltage is not as specified. 			
Causes	 Defective DC voltage detection circuit Defective over voltage detection circuit 			
	 Defective over-voltage detection circuit Defective PAM control part 			
	 Disconnection of compressor harness 			
	Short circuit inside the fan motor winding			
	■ Noise			
	Momentary fall of voltage			
	Momentary power failure			
	Defective indoor unit PCB			



(R18179)

4.9 Signal Transmission Error (between Indoor Unit and Outdoor Unit)

Error Code	
Method of Error Detection	The data received from the outdoor unit in signal transmission is checked whether it is normal.
Error Decision Conditions	The data sent from the outdoor unit cannot be received normally, or the content of the data is abnormal.
Supposed Causes	 Reduction of power supply voltage Wiring error Breaking of the connection wires between the indoor and outdoor units (wire No. 3) Defective outdoor unit PCB Short circuit inside the fan motor winding Defective indoor unit PCB Disturbed power supply waveform



4.10 Signal Transmission Error on Outdoor Unit PCB (RXG50K2V1B Only)

Error Code	្រុះ
Method of Error Detection	Communication error between microcomputer mounted on the main microcomputer and PM1.
Error Decision Conditions	 The abnormality is determined when the data sent from the PM1 can not be received for 9 seconds. The error counter is reset when the data from the PM1 can be successfully received.
Supposed Causes	Defective outdoor unit PCB
Troubleshooting	Image: Note that the end of the power switch before connecting or disconnecting connecting connectors, or parts may be damaged. Image: Note that the power and turn it on again. Image: Note that the power and turn it on again. Image: Note that the power again? Image: Note the pow

(R7185)

4.11 Unspecified Voltage (between Indoor Unit and Outdoor Unit)

Error Code	UR III III III III III III III III III I	
Method of Error Detection	The supply power is detected for its requirements (different from pair type and multi type) by th indoor / outdoor transmission signal.	ie
Error Decision Conditions	The pair type and multi type are interconnected.	
Supposed Causes	 Wrong models interconnected Wrong wiring of connecting wires Wrong indoor unit PCB or outdoor unit PCB mounted Defective indoor unit PCB Defective outdoor unit PCB 	
Troubleshooting	Image: Caution in the source of the power switch before connecting or disconnecting connectors, or parts may be damaged. Check the combination of the indoor and outdoor unit. Image: OK? NO OK? NO OK? Match the compatible models Image: VES Are the connecting wires connected no property? Image: VES Check the code numbers (2P01234, for example) of the indoor and outdoor unit PCB with the Parts List. Image: VES Matched compatibly? Image: VES Change for the correct PCB. Image: VES Replace the indoor unit PCB (or the outdoor unit PCB).	
	(et the exteel attin ee). (R11707)	

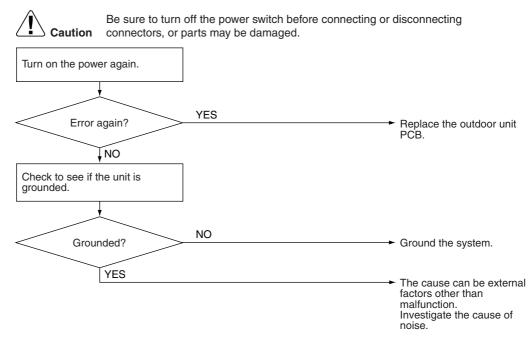
4.12 Outdoor Unit PCB Abnormality

Error Code	ε:	
Method of Error Detection	 The system checks if the microprocessor is working in order. The system checks if the zero-cross signal comes in properly. 	
Error Decision Conditions	The microprocessor program runs out of control.The zero-cross signal is not detected.	
Supposed Causes	 Defective outdoor unit PCB Broken harness between PCBs Noise Momentary fall of voltage Momentary power failure 	
Troubleshooting	YES Check to see if the outdoor unit is grounded.	cting or disconnecting Replace the outdoor unit PCB (2).
	Grounded? NO	Ground the system.
	VES Is the harness broken? NO	Replace the harness.

 Zero-cross signal abnormality.
 Replace the outdoor unit PCB (1).

(R16910)

Troubleshooting RXG50K2V1B

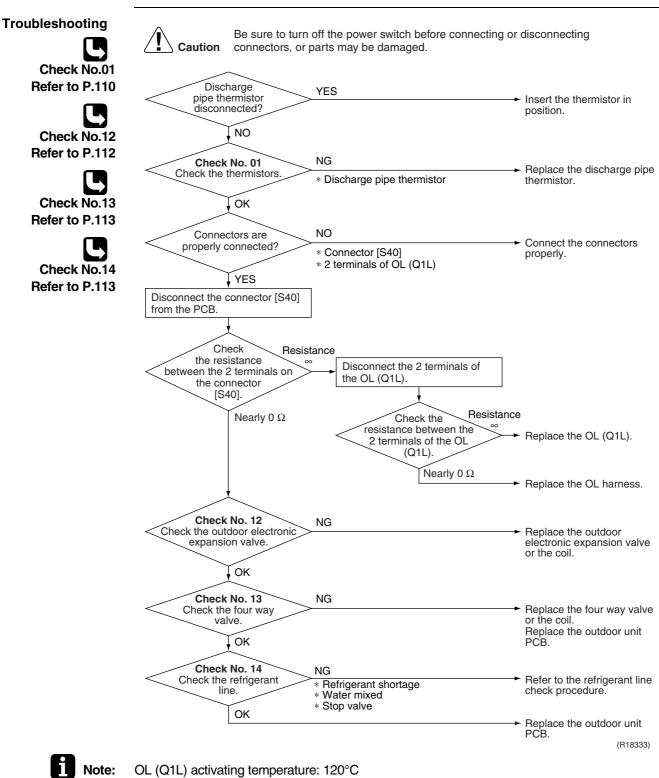


(R16690)

4.13 OL Activation (Compressor Overload)

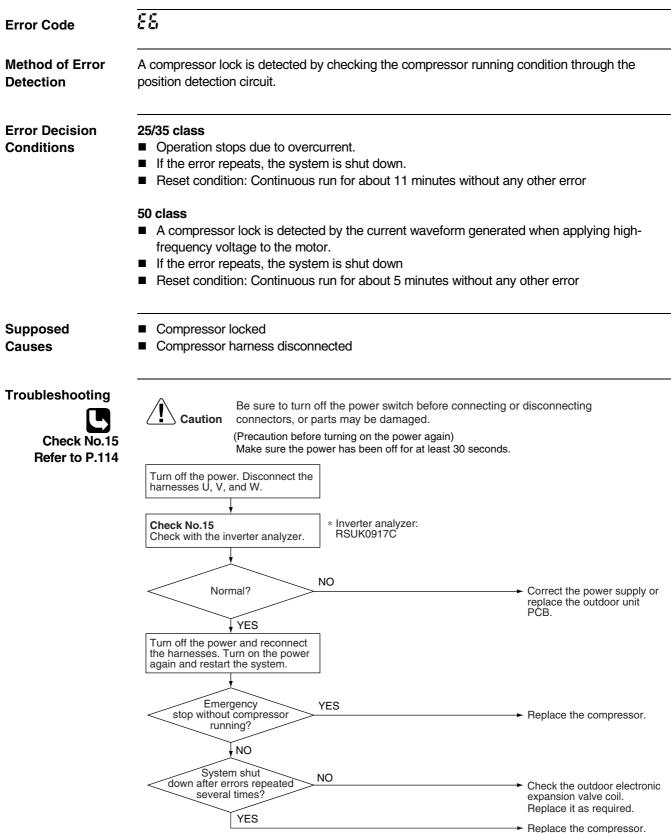
Error Code	85			
Method of Error Detection	A compressor overload is detected through compressor OL.			
Error Decision	If the error repeats, the system is shut down.			
Conditions	Reset condition: Continuous run for about 60 minutes without any other error			
Supposed	 Disconnection of discharge pipe thermistor 			
Causes	Defective discharge pipe thermistor			
	 Disconnection of connector [S40] 			
	Disconnection of 2 terminals of OL (Q1L)			
	Defective OL (Q1L)			
	Broken OL harness			
	 Defective outdoor electronic expansion valve or coil 			
	Defective four way valve or coil			
	Defective outdoor unit PCB			
	Refrigerant shortage			
	Water mixed in refrigerant			

Defective stop valve



OL (Q1L) recovery temperature: 95°C

4.14 Compressor Lock



(R18317)

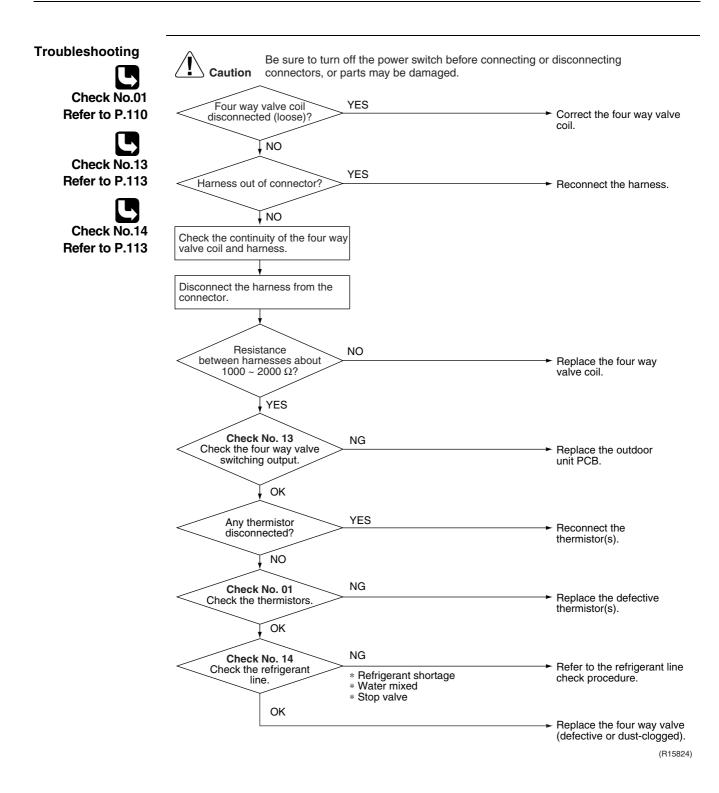
4.15 DC Fan Lock 27 **Error Code** Method of Error An error is determined with the high-voltage fan motor rotation speed detected by the Hall IC. Detection **Error Decision** The fan does not start in about 15 ~ 30 seconds even when the fan motor is running. Conditions If the error repeats, the system is shut down. Reset condition: Continuous run for about 11 minutes (25/35 class) or 5 minutes (50 class) without any other error Supposed Disconnection of the fan motor Causes Foreign matter stuck in the fan Defective fan motor Defective outdoor unit PCB Troubleshooting Be sure to turn off the power switch before connecting or disconnecting Caution connectors, or parts may be damaged. Check No.16 YES Fan motor connector Refer to P.116 Turn off the power and disconnected? reconnect the connector. NO YES Foreign matters in or Remove the foreign around the fan? matters. , NO Turn on the power. Rotate the fan. NO Fan rotates smoothly? Replace the outdoor fan motor. YES Check No. 16 Check the rotation pulse input on the outdoor unit PCB. NO Pulse signal generated? Replace the outdoor fan motor. YES Replace the outdoor unit PCB. (R15675)

4.16 Input Overcurrent Detection

	88	
Error Code	co 	
Method of Error Detection	An input overcurrent is detected by checking the input current value running.	with the compressor
Error Decision Conditions	The current exceeds about 9.25 ~ 20 A (depending on the model) fo compressor running. (The upper limit of the current decreases when the outdoor temperatilevel.)	
Supposed Causes	 Outdoor temperature is out of operation range. Defective compressor Defective power module Defective outdoor unit PCB Short circuit 	
Troubleshooting	Be sure to turn off the power switch before connecting or	disconnecting
Check No.15 Refer to P.114	 Caution connectors, or parts may be damaged. * An input overcurrent may result from wrong internal wiring. If the system is ini overcurrent after the wires have been disconnected and reconnected for part wiring again. 	terrupted by an input replacement, check the
Check No.17 Refer to P.117	Check No. 17 Check the installation condition.	
Refer to P.117	above its stop level?	 Replace the outdoor unit PCB.
	↓ YES Turn off the power and disconnect the harnesses U, V, and W.	
	Check No.15 Check with the inverter analyzer. * Inverter analyzer: RSUK0917C	
	Any LED off? VES NO Turn off the power, and reconnect the harnesses. Turn on the power again and start operation.	 Correct the power supply or replace the outdoor unit PCB.
	Check No. 18 Check the discharge pressure.	(R18318)

4.17 Four Way Valve Abnormality

Error Code	88
Method of Error Detection	The room temperature thermistor and the indoor heat exchanger thermistor are checked if they function within their normal ranges in each operation mode.
Error Decision Conditions	 A following condition continues over 1 ~ 10 minutes (depending on the model) after operating for 5 ~ 10 minutes (depending on the model). Cooling / Dry (room thermistor temp. – indoor heat exchanger temp.) < -5°C Heating (indoor heat exchanger temp. – room thermistor temp.) < -5°C If the error repeats, the system is shut down. Reset condition: Continuous run for about 60 minutes without any other error
Supposed Causes	 Disconnection of four way valve coil Defective four way valve, coil, or harness Defective outdoor unit PCB Defective thermistor Refrigerant shortage Water mixed in refrigerant Defective stop valve



turo Control -. D' -0

Error Code	83					
Nethod of Error Detection	An error is de	etermined with th	e temperature dete	cted by the	discharge pipe therm	istor.
Error Decision Conditions	compress	or stops. is cleared when			tor rises above A °C, has dropped below	
		- 		A (°C)	B (°C)	
	(1) above 45	Hz (rising) above	e 40 Hz (dropping)	110	97	
		z (rising), 25 ~ 40		105	92	
			25 Hz (dropping)	99	86	
		riz (rising), below	23 Hz (dropping)	33	00	
	<50 class>					
	A (°C) 110	B (°C) 95				
Supposed Causes	 (Defective Defective Refrigerar Defective Water mix Defective 		changer thermistor ic expansion valve		temperature thermist	or)
roubleshooting	Cautio				ecting or disconnecting	
Check No.01			or parts may be dama	gea.		
Refer to P.110	Ch	eck No. 01	NG			
	Check	the thermistors.	* Discharge pipe th * Outdoor heat exc		 Replace the d thermistor. 	lefective
		↓ OK	* Outdoor tempera			
Check No.12						
Refer to P.112		eck No. 12 outdoor electronic	> NG		Replace the o	outdoor
	exp	ansion valve coil.			electronic exp or the coil.	ansion valve
Check No.14		↓ OK				
Refer to P.113						
		eck No. 14	NG		- Doforto the re-	ofrigoropt lin-
	Check	the refrigerant line.	* Refrigerant short * Four way valve	age	Refer to the re check proced	
		ОК	Water mixedStop valve			

Replace the outdoor unit PCB.

(R15274)

4.19 High Pressure Control in Cooling

Error Code	F8	
Method of Error Detection	High-pressure control (operation halt, frequency drop, etc.) the temperature sensed by the outdoor heat exchanger the	· · · ·
Error Decision Conditions	 The temperature sensed by the outdoor heat exchange 60 ~ 65°C (depending on the model). The error is cleared when the temperature drops below 	
Supposed Causes	 The installation space is not large enough. Dirty outdoor heat exchanger Defective outdoor fan motor Defective stop valve Defective outdoor electronic expansion valve or coil Defective outdoor heat exchanger thermistor Defective outdoor unit PCB 	
Troubleshooting	Be sure to turn off the power switch before co connectors, or parts may be damaged.	nnecting or disconnecting
Check No.01		
Refer to P.110	Check the installation space.	
	<u>+</u>	
Check No.12	Check No. 17 NG	← Change the installation
Refer to P.112	Check the installation condition.	location or direction.
_		Clean the outdoor heat
	↓ OK	exchanger.
Check No.17	Check No. 19 NG	
Refer to P.117	Check the outdoor fan.	Replace the outdoor fan
		motor. Reconnect the connector or
	Į OK	fan motor lead wires.
Check No.18		
Refer to P.117	Check No. 18 NG Check the discharge	Replace the stop valve.
	pressure.	
	I OK	
Check No.19	Check No. 12	
Refer to P.118	Check the outdoor electronic NG	Replace the outdoor
	expansion valve.	electronic expansion valve
		or the coil. Replace the outdoor unit
	¥ OK	PCB.
	Check No. 01 NG	
	exchanger thermistor.	Replace the outdoor heat exchanger thermistor.
		exchanger inernision.
	OK	
		→ Replace the outdoor unit
		PCB.
		(R18182)
		(

4.20 Compressor System Sensor Abnormality 4.20.1 25/35 Class, RXG50K3V1B

Error Code	×8	_
Method of Error Detection	The system checks the DC current before the compressor starts.	
Error Decision Conditions	 The DC current before compressor start-up is out of the range 0.5 ~ 4.5 V (sensor output converted to voltage value) The DC voltage before compressor start-up is below 50 V. 	
Supposed Causes	 Broken or disconnected harness Defective outdoor unit PCB 	_
Troubleshooting	Image: Construction of the power switch before connecting or disconnecting connectors, or parts may be damaged. Check the relay harness for the compressor. Image: VES Is the harness broken? VI VI Is the harness broken? VES Replace the harness. Image: VES Restart operation and error displayed again? VES NO Replace the outdoor unit PCB.	
	(B11712)	

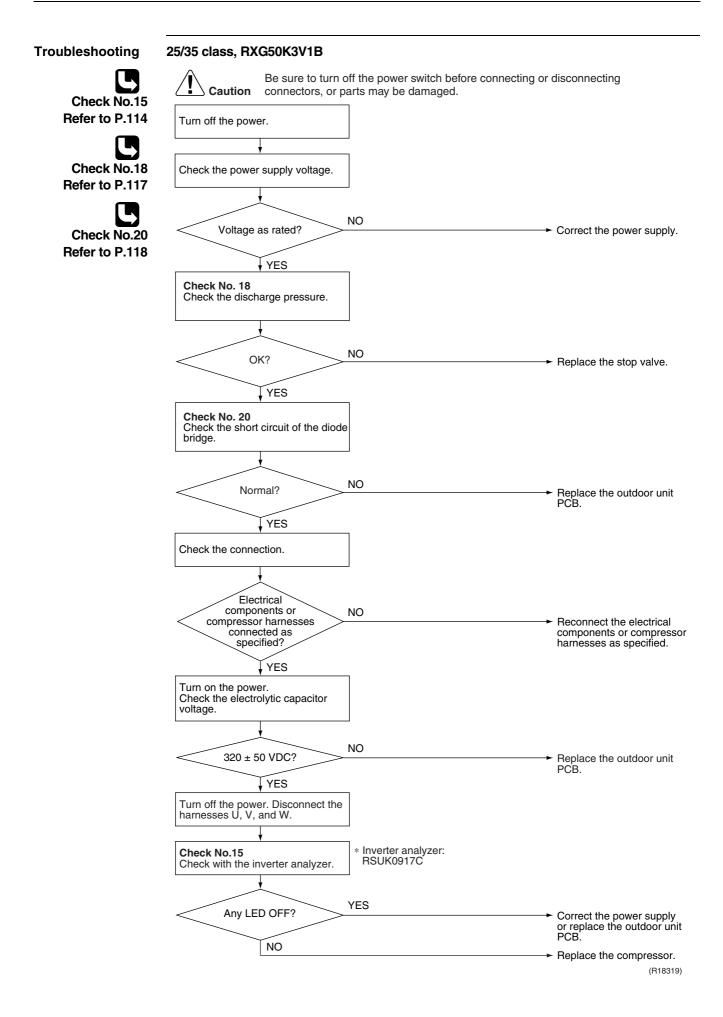
4.20.2 RXG50K2V1B

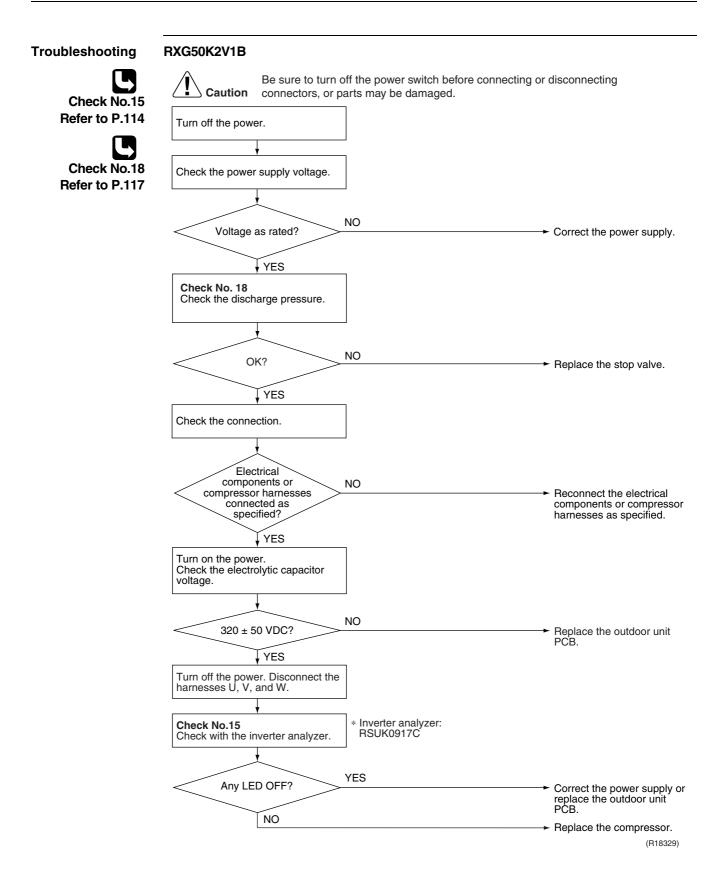
Error Code	<u>88</u>			
Method of Error Detection	 The system checks the power supply voltage and the DC voltage before the compressor starts. The system checks the compressor current right after the compressor starts. 			
Error Decision Conditions		and the DC voltage is obviously low or les not run when the compressor starts	-	
Supposed Causes	 Disconnection of reactor Disconnection of compress Defective outdoor unit PCB Defective compressor 			
Troubleshooting				
	Caution connectors, or Turn off the power. Check the connection of the reactor. Connection OK? YES Check the connection of the compressor. Connection OK?	n off the power switch before connecting or r parts may be damaged.	 Connect the reactor properly. Connect the compressor properly. 	
	YES Check the reactor. 10 $Ω$ or less? YES Check the compressor. 10 $Ω$ or less between each terminal? YES	Disconnect the compressor relay harness from the outdoor unit PCB and measure the resistance value between the each 3 terminals of the compressor with tester.	 Replace the reactor. Replace the compressor or the compressor relay harness. Restart the operation again and if the error occurs 	
			and if the error occurs again, replace the outdoor unit PCB.	

(R15891)

4.21 Position Sensor Abnormality

Error Code	XS
Method of Error Detection	A compressor start-up failure is detected by checking the compressor running condition through the position detection circuit.
Error Decision Conditions	 If the error repeats, the system is shut down. Reset condition: Continuous run for about 11 minutes (25/35 class) or 5 minutes (50 class) without any other error
Supposed Causes	 Disconnection of the compressor relay cable Defective compressor Defective outdoor unit PCB Start-up failure caused by the closed stop valve Input voltage is outside the specified range.





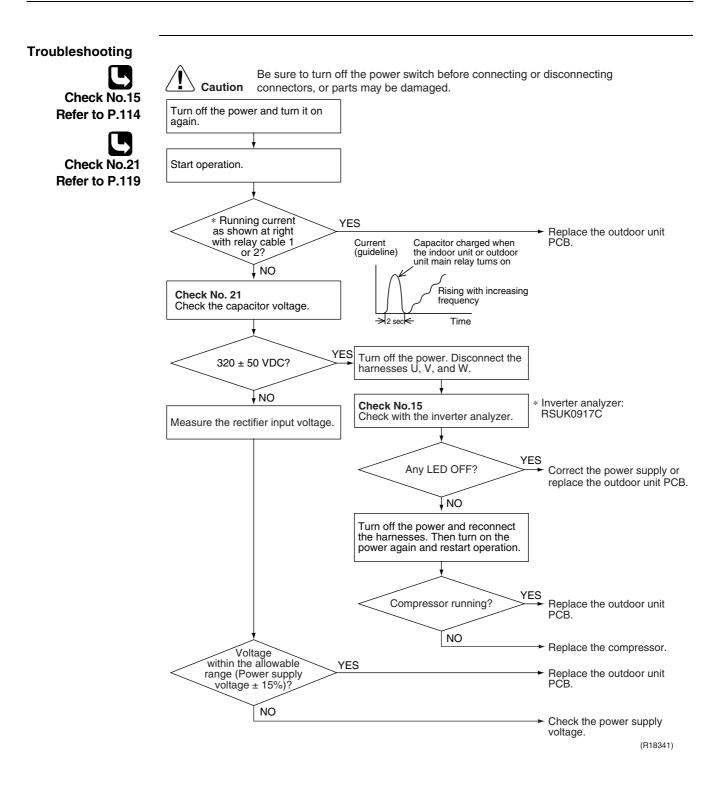
4.22 DC Voltage / Current Sensor Abnormality (25/35 Class Only)

Error Code	8
Method of Error Detection	DC voltage or DC current sensor abnormality is identified based on the compressor running frequency and the input current.
Error Decision Conditions	 If the error repeats, the system is shut down. Reset condition: Continuous run for about 60 minutes without any other error
Supposed Causes	Defective outdoor unit PCB
Troubleshooting	
	Caution Be sure to turn off the power switch before connecting or disconnecting connectors, or parts may be damaged.

Replace the outdoor unit PCB.

4.23 CT or Related Abnormality (RXG50K2V1B Only)

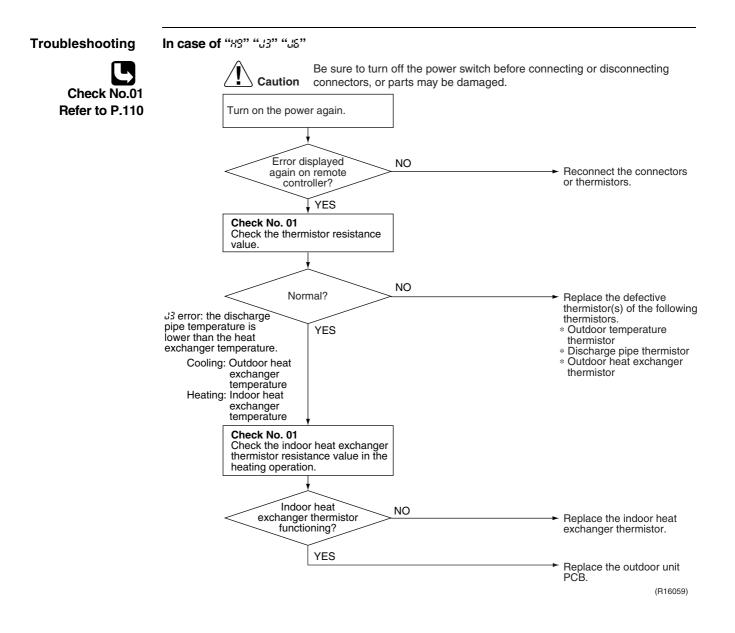
Error Code	X8
Method of Error Detection	A CT or related error is detected by checking the compressor running frequency and CT- detected input current.
Error Decision Conditions	The compressor running frequency is more than A Hz, and the CT input current is less than B A.
	A (Hz) B (A)
	55 0.5
	 If the error repeats, the system is shut down. Reset condition: Continuous run for about 60 minutes without any other error
Supposed	Defective power module
Causes	 Broken or disconnected wiring Defective reseter
	 Defective reactor Defective outdoor unit PCB



4.24 Thermistor or Related Abnormality (Outdoor Unit)

Error Code	X3, J3, J6, PY			
Method of Error Detection	This fault is identified based on the thermistor input voltage to the microcomputer. A thermistor fault is identified based on the temperature sensed by each thermistor.			
Error Decision Conditions	 The thermistor input voltage is above 4.96 V or below 0.04 V with the power on. J3 error is judged if the discharge pipe temperature is lower than the heat exchanger temperature. 			
Supposed Causes	 Disconnection of the connector for the thermistor Defective thermistor corresponding to the error code Defective heat exchanger thermistor in the case of <i>3</i> error (outdoor heat exchanger thermistor in cooling operation, or indoor heat exchanger thermistor in heating operation) Defective outdoor unit PCB 			
Troubleshooting	In case of "°°			
	Caution Be sure to turn off the power switch before connecting or disconnecting connectors, or parts may be damaged.			
	Replace the outdoor unit PCB.			
	(W) Dediction fin thermister			

P4 : Radiation fin thermistor



83: Outdoor temperature thermistor

- 33 : Discharge pipe thermistor
- 35 : Outdoor heat exchanger thermistor

4.25 Electrical Box Temperature Rise

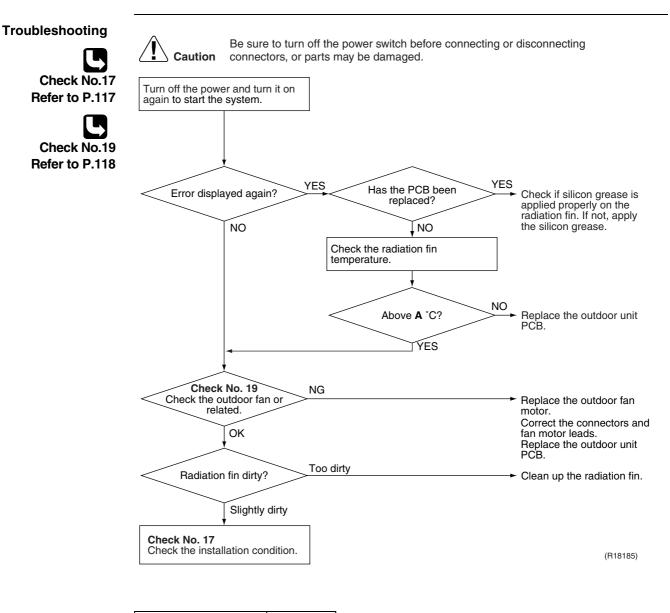
				-	
Error Code	13				
Method of Error Detection	An electrical box tempo compressor off.	erature rise i	is detected by	/ checking the	e radiation fin thermistor with the
Error Decision Conditions	 With the compresso The error is cleared To cool the electrication rises above C°C and 	l when the ra al componer	adiation fin te nts, the outdo	mperature dro or fan starts v	
		A (°C)	B (°C)	C (°C)	
	25/35 class	98	75	83	
	RXG50K2V1B	95	80	85	
	RXG50K3V1B	122	64	113	
			•	<u> </u>	
Supposed Causes	 Defective outdoor fa Short circuit Defective radiation Disconnection of co Defective outdoor u 	fin thermisto	Dr		
Troubleshooting		uro to turn off	the new or owit	ah hafara aanna	acting or disconnecting
			the power switt ts may be dama		ecting or disconnecting
	Turn off the power and t				
Check No.17 Refer to P.117	again.			the outdo radiation	e electrical components, or fan starts when the fin temperature rises 'C and stops when it ow B °C.
Refer to P.118	Error again or out	door YE	S	_	
	fan activated?				
	NO			Ļ	
			Check the rad	iation fin	
			temperature.		
				<u>+</u>	
			Abo	ove A °C?	NO Replace the outdoor unit PCB.
				YES	
	Check No. 19 Check the outdoor	_ III	à		Replace the outdoor fan
	related.				motor. Correct the connectors
	ОК				and fan motor lead wire. Replace the outdoor unit PCB.
	Radiation fin dirt	y?	o dirty		← Clean up the radiation fin.
	Slight	ly dirty			
	Check No. 17 Check the installation of	ondition.			(R14444)
					· · · · · ·

4.26 Radiation Fin Temperature Rise

Error Code	14			
Method of Error Detection	A radiation fin tempe compressor on.	erature rise is de	etected by cl	hecking the radiation fin thermistor with the
Error Decision Conditions	 If the radiation fin temperature with the compressor on is above A°C. The error is cleared when the radiation fin temperature drops below B°C. If the error repeats, the system is shut down. Reset condition: Continuous run for about 60 minutes without any other error 			
		A (°C)	B (°C)]
	25/35 class	98	78	-
	RXG50K2V1B	105	99	1
	RXG50K3V1B	85	56	1

Supposed Causes

- Defective outdoor fan motor
- Short circuit
- Defective radiation fin thermistor
- Disconnection of connector
- Defective outdoor unit PCB
- Silicon grease is not applied properly on the radiation fin after replacing the outdoor unit PCB.



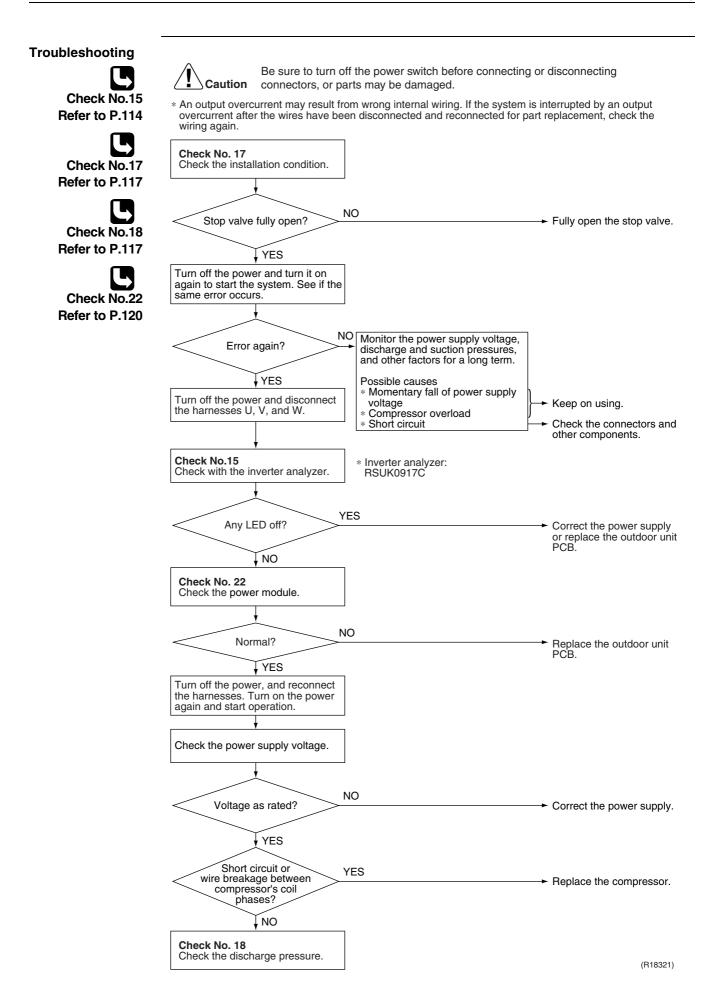
	A (°C)
25/35 class	98
RXG50K2V1B	105
RXG50K3V1B	85



Refer to "Silicon Grease on Power Transistor / Diode Bridge" on page 131 for detail.

4.27 Output Overcurrent Detection

Error Code	25
Method of Error Detection	An output overcurrent is detected by checking the current that flows in the inverter DC section.
Error Decision Conditions	 A position signal error occurs while the compressor is running. A speed error occurs while the compressor is running. An output overcurrent signal is fed from the output overcurrent detection circuit to the microcomputer. If the error repeats, the system is shut down. Reset condition: Continuous run for about 11 minutes (25/35 class) or 5 minutes (50 class) without any other error
Supposed Causes	 Poor installation condition Closed stop valve Defective power module Wrong internal wiring Abnormal power supply voltage Defective outdoor unit PCB Defective compressor



5. Check 5.1 Thermistor Resistance Check

Check No.01

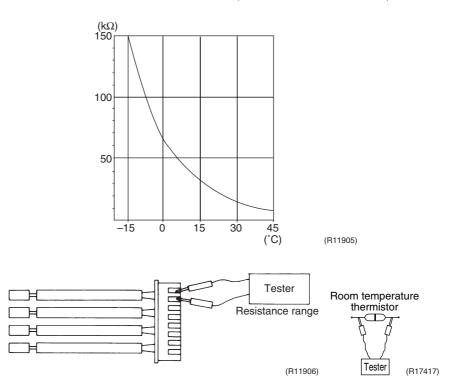
Disconnect the connectors of the thermistors from the PCB, and measure the resistance of each thermistor using tester.

The relationship between normal temperature and resistance is shown in the table and the graph below.

The data is for reference purpose only.				
Thermistor temperature (°C)	Resistance (k Ω)			
-20	197.8			
-15	148.2			
-10	112.1			
-5	85.60			
0	65.93			
5	51.14			
10	39.99			
15	31.52			
20	25.02			
25	20.00			
30	16.10			
35	13.04			
40	10.62			
45	8.707			
50	7.176			

The data is for reference purpose only.

(R25°C = 20 kΩ, B = 3950 K)

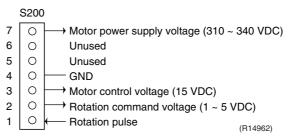


- When the room temperature thermistor is directly mounted on the display PCB, remove the display PCB from the control PCB to measure the resistance.
- When the connector of the indoor heat exchanger thermistor is soldered on the PCB, remove the thermistor and measure the resistance.

5.2 Fan Motor Connector Output Check

Check No.02

- 1. Check the connection of connector.
- 2. Check the motor power supply voltage output (pins 4 7).
- 3. Check the motor control voltage (pins 4 3).
- 4. Check the rotation command voltage (pins 4 2).
- 5. Check the rotation pulse (pins 4 1).



5.3 Power Supply Waveforms Check

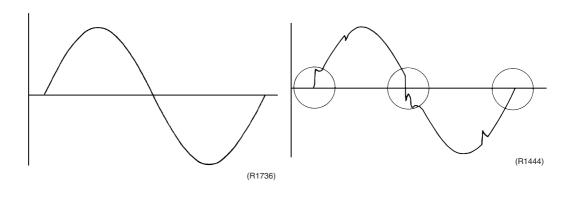
Check No.11

Measure the power supply waveform between No. 1 and No. 2 on the terminal board, and check the waveform disturbance.

- Check to see if the power supply waveform is a sine wave. (Fig.1)
- Check to see if there is waveform disturbance near the zero cross. (sections circled in Fig.2)

Fig.1

Fig.2

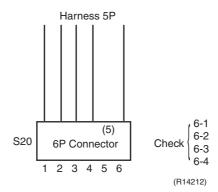


5.4 Outdoor Electronic Expansion Valve Check

Check No.12

Conduct the followings to check the outdoor electronic expansion valve (EV).

- 1. Check to see if the EV connector is correctly connected to the PCB.
- 2. Turn the power off and on again, and check to see if the EV generates a latching sound.
- If the EV does not generate a latching sound in the above step 2, disconnect the connector and check the continuity using a tester.
- 4. Check the continuity between the pins 1 6, 2 6, 3 6, and 4 6. If there is no continuity between the pins, the EV coil is faulty.



5. If the continuity is confirmed in step 3, the outdoor unit PCB is faulty.

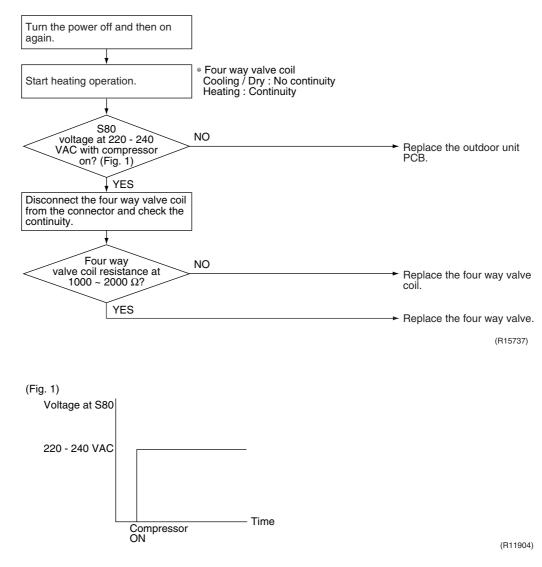


Please note that the latching sound varies depending on the valve type.

112

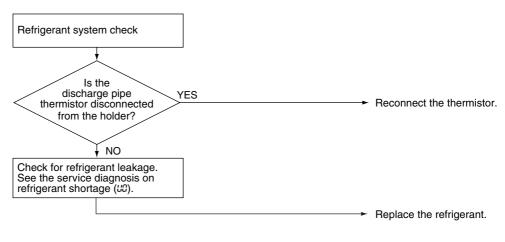
5.5 Four Way Valve Performance Check

Check No.13



5.6 Inverter Units Refrigerant System Check

Check No.14



(R15833)

5.7 Inverter Analyzer Check

Check No.15

Characteristics

Inverter analyzer: RSUK0917C

If an abnormal stop occurs due to compressor startup failure or overcurrent output when using an inverter unit, it is difficult to judge whether the stop is caused by the compressor failure or some other failure (main PCB, power module, etc.). The inverter analyzer makes it possible to judge the cause of trouble easily and securely. (Connect an inverter analyzer as a quasicompressor instead of compressor and check the output of the inverter)

Operation Method

Step 1

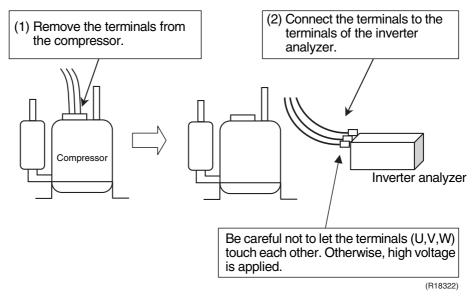
Be sure to turn the power off.

Step 2

Install an inverter analyzer instead of a compressor.

Note:

Make sure the charged voltage of the built-in smoothing electrolytic capacitor drops to 10 VDC or below before carrying out the service work.



Reference:

If the terminals of the compressor are not FASTON terminals (difficult to remove the wire on the terminals), it is possible to connect wires available on site to the outdoor unit from output side of PCB. (Do not connect them to the compressor at the same time, otherwise it may result in incorrect detection.)

Step 3

Activate the power transistor test operation from the outdoor unit.

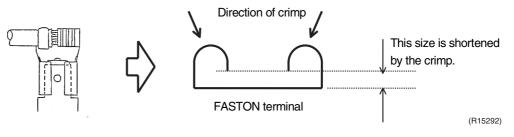
- 1) Press the forced cooling operation ON/OFF switch for 5 seconds.
- (Refer to page 124 for the position.)
- \rightarrow Power transistor test operation starts.

- Diagnose method (Diagnose according to 6 LEDs lighting status.)
- (1) If all the LEDs are lit uniformly, the compressor is defective. \rightarrow Replace the compressor.
- (2) If the LEDs are not lit uniformly, check the power module. \rightarrow Refer to **Check No.22**.
- (3) If NG in Check No.22, replace the power module.(Replace the main PCB. The power module is united with the main PCB.)If OK in Check No.22, check if there is any solder cracking on the PCB.
- (4) If any solder cracking is found, replace the PCB or repair the soldered section. If there is no solder cracking, replace the PCB.



Caution

- (1) When the output frequency is low, the LEDs blink slowly. As the output frequency increases, the LEDs blink quicker. (The LEDs look like they are lit.)
- (2) On completion of the inverter analyzer diagnosis, be sure to re-crimp the FASTON terminals. Otherwise, the terminals may be burned due to loosening.

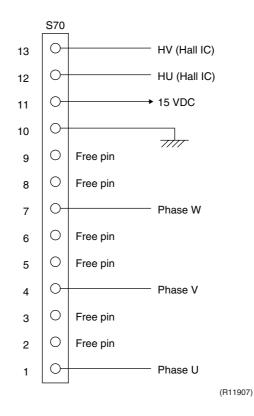


5.8 Rotation Pulse Check on the Outdoor Unit PCB

Check No.16

25/35 class

- 1. Check that the voltage between the pins 10 11 is 15 VDC.
- 2. Check if the Hall IC generates the rotation pulse (0 ~ 15 VDC) 4 times between the pins 10 12, 10 13, when the fan motor is manually rotated once.



50 class

Make sure that the voltage of 320 ± 30 V is applied.

- 1. Set operation off and power off. Disconnect the connector S70.
- 2. Check that the voltage between the pins 4 7 is 320 VDC.
- 3. Check that the control voltage between the pins 3 4 is 15 VDC.
- 4. Check that the rotation command voltage between the pins 2 4 is 0 ~ 15 VDC.
- 5. Keep operation off and power off. Connect the connector S70.
- Check whether 2 pulses (0 ~ 15 VDC) are output at the pins 1 4 when the fan motor is rotated 1 turn by hand.

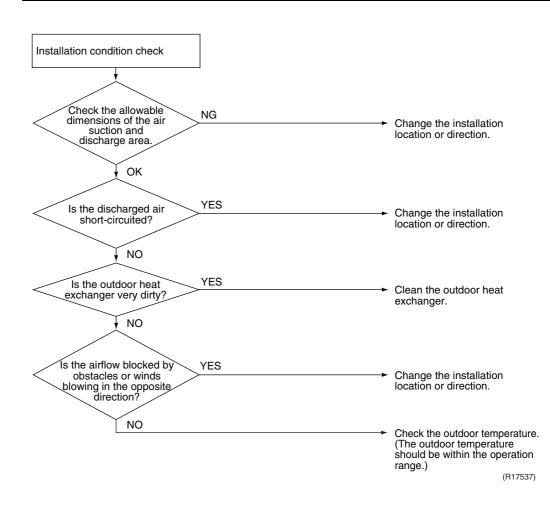
When the fuse is melted, check the outdoor fan motor for proper function.

- If OK in both steps 2 and 4 –
- \rightarrow Replace the outdoor tan motor. \rightarrow Replace the outdoor unit PCB.
 - PCB S70 0-1 Actual rotation pulse output (0 ~ 15 VDC) 04 2 Rotation command pulse input (0 ~ 15 VDC) 3 0-15 VDC 4 О ΠΠ Ο 5 Ο 6 0 320 VDC 7

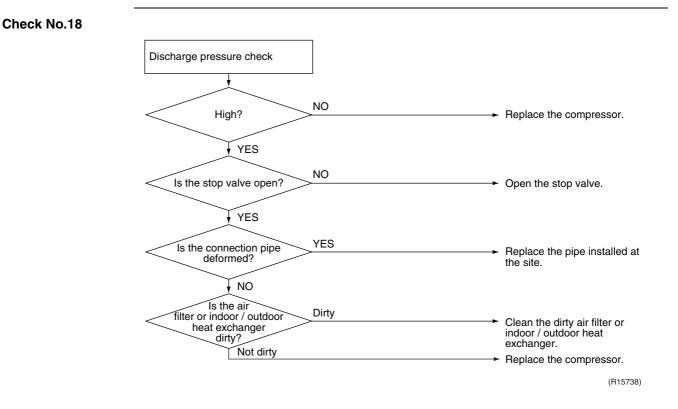
(R10811)

5.9 Installation Condition Check

Check No.17

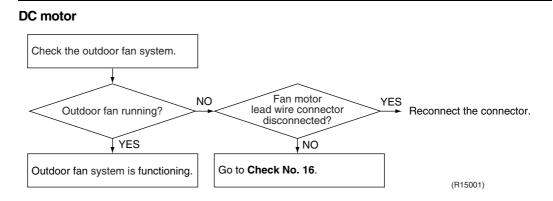


5.10 Discharge Pressure Check



5.11 Outdoor Fan System Check

Check No.19



5.12 Main Circuit Short Check

Check No.20



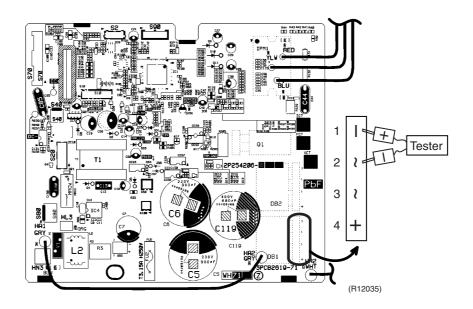
25/35 class, RXG50K3V1B only

Check to make sure that the voltage between (+) and (–) of the diode bridge (DB1) is approx. 0 V before checking.

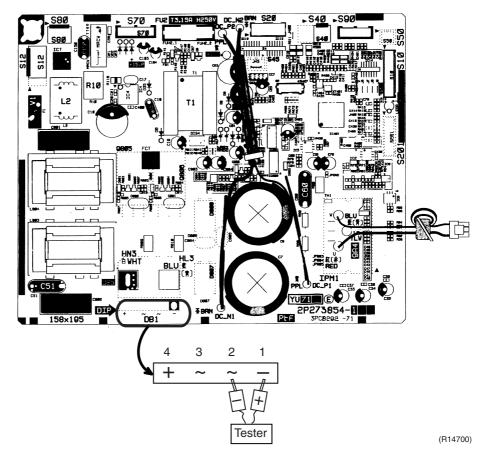
- Measure the resistance between the pins of the DB1 referring to the table below.
- If the resistance is ∞ or less than 1 k Ω , short circuit occurs on the main circuit.

Negative (–) terminal of tester (positive terminal (+) for digital tester)	~ (2, 3)	+ (4)	~ (2, 3)	- (1)
Positive (+) terminal of tester (negative terminal (–) for digital tester)	+ (4)	~ (2, 3)	— (1)	~ (2, 3)
Resistance is OK.	several k Ω ~ several M Ω	∞	∞	several k Ω ~ several M Ω
Resistance is NG.	0 Ω or ∞	0	0	0 Ω or ∞

25/35 class



RXG50K3V1B

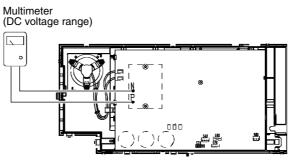


5.13 Capacitor Voltage Check

Check No.21

RXG50K2V1B only

Before this check, be sure to check the main circuit for short circuit. With the circuit breaker still on, measure the voltage according to the drawing of the model in question. Be careful never to touch any live parts.



(R18183)

5.14 Power Module Check

Check No.22

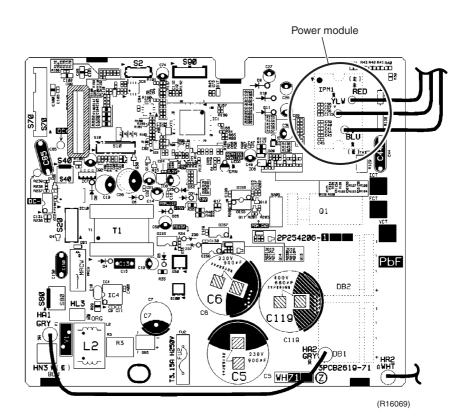


Check to make sure that the voltage between (+) and (-) of the power module is approx. 0 V before checking.

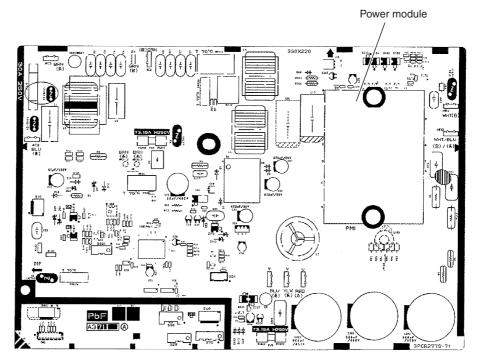
- Disconnect the compressor harness connector from the outdoor unit PCB. To disengage the connector, press the protrusion on the connector.
- Follow the procedure below to measure resistance between the terminals of the power module and the terminals of the compressor with a multi-tester. Evaluate the measurement results referring to the following table.

Negative (–) terminal of tester (positive terminal (+) for digital tester)	Power module (+)	UVW	Power module (–)	UVW
Positive (+) terminal of tester (negative terminal (–) for digital tester)	UVW	Power module (+)	UVW	Power module (–)
Resistance is OK.		several k Ω	~ several M Ω	
Resistance is NG.		2 0	2 or ∞	

25/35 class

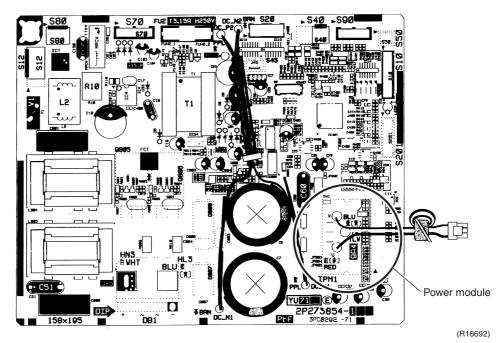


RXG50K2V1B



(R16073)

RXG50K3V1B



Part 7 Trial Operation and Field Settings

1.	Pum	p Down Operation	123
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5.		on Grease on Power Transistor / Diode Bridge	

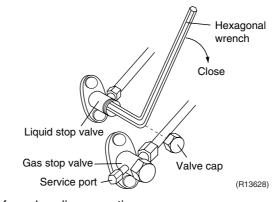
1. Pump Down Operation

Outline

In order to protect the environment, be sure to conduct pump down operation when relocating or disposing the unit.

Detail

- 1) Remove the valve caps from the liquid stop valve and the gas stop valve.
- 2) Carry out forced cooling operation.
- 3) After 5 to 10 minutes, close the liquid stop valve with a hexagonal wrench.
- 4) After 2 to 3 minutes, close the gas stop valve and stop the forced cooling operation.



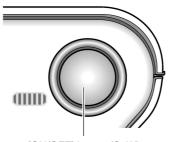


Refer to page 124 for forced cooling operation.

2. Forced Cooling Operation

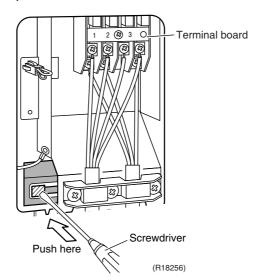
Item	Forced Cooling
Conditions	The forced cooling operation is allowed when both the following conditions are met. 1) The outdoor unit is not abnormal and not in the 3-minute standby mode. 2) The outdoor unit is not operating.
Start	The forced cooling operation starts when any of the following conditions is fulfilled. 1) Press the forced cooling operation [ON/OFF] button (S1W) on the indoor
	unit for 5 seconds. 2) Press the forced cooling operation ON/OFF switch (SW1) on the outdoor unit. (25/35 class: with standby electricity saving function turned off.)
Command frequency	25/35 class: 58 Hz 50 class: 66 Hz
End	 The forced cooling operation ends when any of the following conditions is fulfilled. 1) The operation ends automatically after 15 minutes. 2) Press the forced cooling operation [ON/OFF] button (S1W) on the indoor unit again. 3) Press the ON/OFF button on the remote controller. 4) Press the forced cooling operation ON/OFF switch (SW1) on the outdoor
Others	unit. Protection functions have priority over all other functions during forced cooling operation.

Indoor Unit

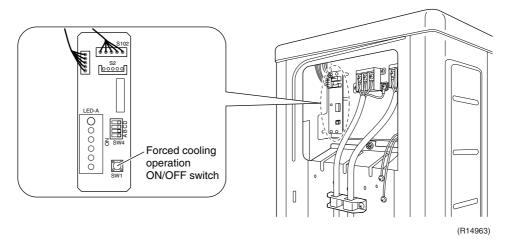


[ON/OFF] button (S1W) (R18184)

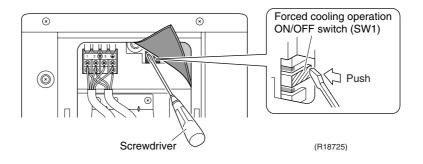
Outdoor Unit (25/35 class)



Outdoor Unit (RXG50K2V1B)



Outdoor Unit (RXG50K3V1B)



• When pressing the switch, do not touch the terminal board. It has a high voltage and may cause electric shock.

3. Trial Operation

Outline

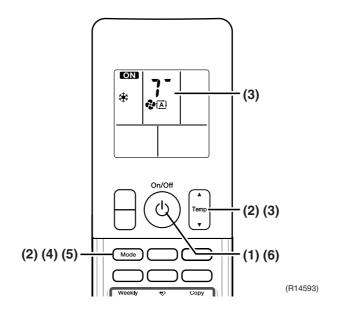
- Measure the power supply voltage and make sure that it falls within the specified range.
 Trial operation should be carried out in either cooling or heating operation.
- 2. I had operation should be carried out in either cooling or neating operation
- 3. Carry out the trial operation in accordance with the operation manual to ensure that all functions and parts, such as flap movement, are working properly.
- The air conditioner requires a small amount of power in standby mode. If the system is not to be used for some time after installation, shut off the circuit breaker to eliminate unnecessary power consumption.
- If the circuit breaker trips to shut off the power to the air conditioner, the system backs up the operation mode. The system then restarts operation with the previous operation mode when the circuit breaker is restored.

In cooling operation, select the lowest programmable temperature (18°C); in heating operation, select the highest programmable temperature (30°C).

- Trial operation may be disabled in either operation mode depending on the room temperature.
- After trial operation is complete, set the temperature to a normal level. (26°C ~ 28°C in cooling, 20°C ~ 24°C in heating)
- For protection, the system does not start for 3 minutes after it is turned off.

Detail ARC466 Series

- (1) Press the [On/Off] button to turn on the system.
- (2) Press the center of the [Temp] button and the [Mode] button at the same time.
- (3) Select 7^{-} (trial operation) with the [Temp] \blacktriangle or \triangledown button.
- (4) Press the [Mode] button to start the trial operation.
- (5) Press the [Mode] button and select operation mode.
- (6) Trial operation terminates in approx. 30 minutes and switches into normal mode. To quit a trial operation, press the [On/Off] button.



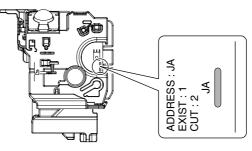
4. Field Settings4.1 When 2 Units are Installed in 1 Room

Outline

When 2 indoor units are installed in 1 room, 1 of the 2 indoor units and the corresponding wireless remote controller can be set for different addresses. Both the indoor unit PCB and the wireless remote controller need alteration.

Indoor Unit PCB

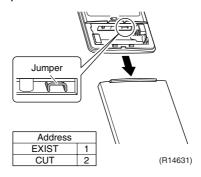
Remove the front panel and front grille. (4 screws)
 Cut the address setting jumper (JA) on the signal receiver / display PCB.



(Bottom of electrical box)

(R12036)

Wireless Remote Controller Remove the cover and take it off.
 Cut the address setting jumper.



4.2 Standby Electricity Saving

Outline

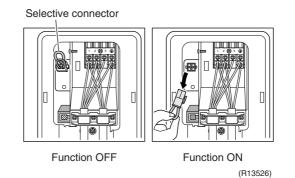
25/35 Class Only

This function turns OFF the power supply to the outdoor unit and sets the indoor unit into standby electricity saving mode, thus reducing the power consumption of the air conditioner.

Detail

The standby electricity saving function is turned OFF before shipping. The following procedure is required for turning ON the function.

- 1. Check that the main power supply is turned OFF. Turn OFF if it has not been turned OFF.
- 2. Remove the stop valve cover.
- 3. Disconnect the selective connector for standby electricity saving.
- 4. Turn ON the main power supply.





- 1. Before connecting or disconnecting the selective connector for standby electricity saving, make sure that the main power supply is turned OFF.
- 2. For the RXG50K3V1B model, the selective connector for standby electricity saving is required. Do not disconnect it.

4.3 Facility Setting Jumper (cooling at low outdoor temperature)

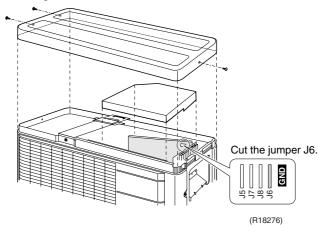
Outline

RXG50K3V1B

This function is limited only for facilities (the target of air conditioning is equipment (such as computer)). Never use it in a residence or office (the space where there is a human).

Detail

You can expand the operation range to -10° C by cutting jumper J6 on the outdoor unit PCB. If the outdoor temperature falls to -18° C or lower, the operation stops. If the outdoor temperature rises, the operation starts again.





- 1. If the outdoor unit is installed where the outdoor heat exchanger of the unit is exposed to direct wind, provide a windbreak wall.
 - 2. Intermittent noises may be produced by the indoor unit due to the outdoor fan turning on and off when using facility settings.
 - 3. Do not place humidifiers or other items which might raise the humidity in rooms where facility settings are being used.

A humidifier might cause dew condensation from the indoor unit outlet vent.

- 4. Cutting jumper sets the indoor fan tap to the highest position.
- Replace the PCB if you accidentally cut a wrong jumper. Jumpers are necessary for electronic circuit. Improper operation may occur if you cut any of them.

4.4 Jumper and Switch Settings

Indoor Unit

Function	Jumper	When connected (factory set)	When cut
Fan speed setting when compressor stops for thermostat OFF. (effective only at cooling operation)	JB (on indoor unit PCB)	Fan speed setting; Remote controller setting	Fan speed setting; "0" (The fan stops.)
Power failure recovery function	JC (on indoor unit PCB)	Auto-restart	The unit does not resume operation after recovering from a power failure. Timer settings are cleared.

C

For the location of the jumper, refer to page 15.

Outdoor Unit

Function	Switch / Jumper	Switch: OFF Jumper: connected (factory set)	Switch: ON Jumper: cut
Improvement of defrost performance	$\begin{array}{l} \text{25/35 class} \rightarrow \text{J5} \\ \text{RXG50K2V1B} \rightarrow \text{SW4-C} \\ \text{RXG50K3V1B} \rightarrow \text{J8} \end{array}$	Standard control	Reinforced control (ex. The frequency increases, the duration time of defrost lengthens.)



For the location of the jumper and the switch, refer to page 17, 19, 20.



Replace the PCB if you accidentally cut a wrong jumper.

Jumpers are necessary for electronic circuit. Improper operation may occur if you cut any of them.

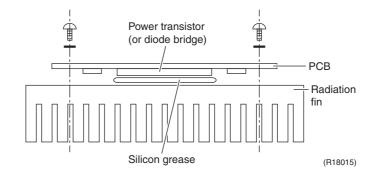
5. Silicon Grease on Power Transistor / Diode Bridge

Outline

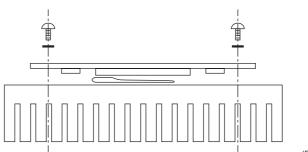
Apply the specified silicon grease to the heat radiation part of a power transistor / diode bridge when you replace an outdoor unit PCB. The silicon grease encourages the heat radiation of a power transistor / diode bridge.

Detail

- 1. Wipe off the old silicon grease completely.
- 2. Apply the silicon grease evenly. See the illustrations below for examples of application.
- 3. Tighten the screws of the power transistor / diode bridge.
- 4. Make sure that the heat radiation parts are firmly contacted to the radiation fin.
- Note: Smoke emission may be caused by bad heat radiation when the silicon grease is not appropriately applied.
- OK: Evenly applied

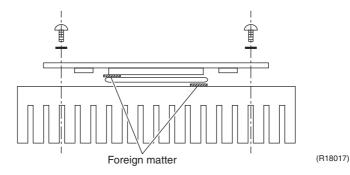


NG: Not evenly applied



(R18016)

■ NG: Foreign matter is stuck.



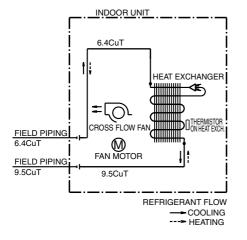
Part 8 Appendix

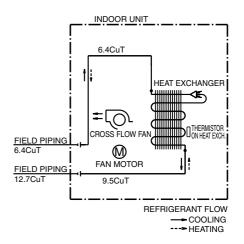
1.	I. Piping Diagrams		
	1.1 Indoor Unit		
	1.2 Outdoor Unit		
2.	Wiring Diagrams		
	2.1 Indoor Unit		
	2.2 Outdoor Unit		
3.	Removal Procedure (Booklet No.)	137	

1. Piping Diagrams 1.1 Indoor Unit

FTXG25/35JV1BW(S)(A)

FTXG50JV1BW(S)(A)

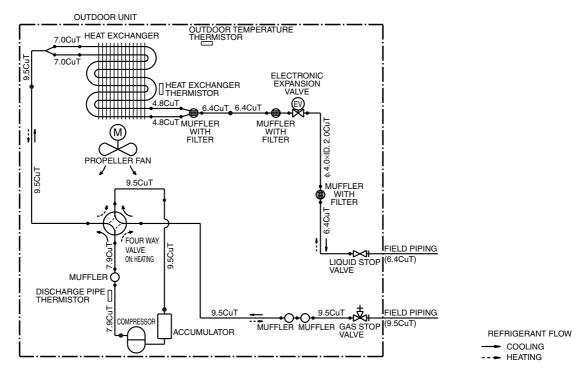




4D065856C

1.2 Outdoor Unit

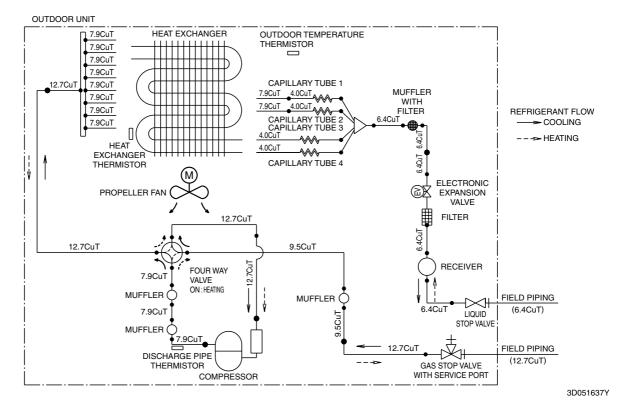
RXG25/35J2V1B, RXG25/35K2V1B, RXG25/35K3V1B



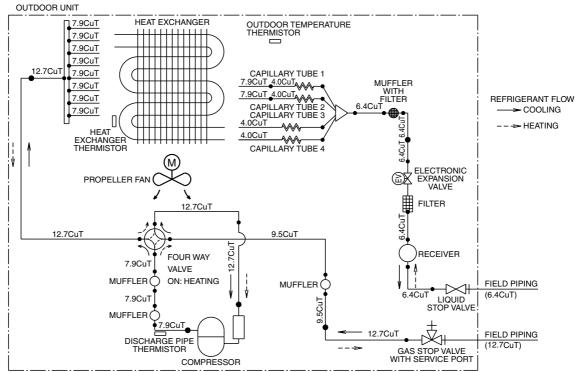
4D065855B

3D059586Q

RXG50K2V1B



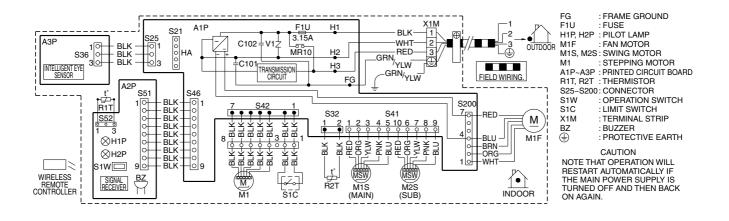
RXG50K3V1B



3D080605

2. Wiring Diagrams 2.1 Indoor Unit

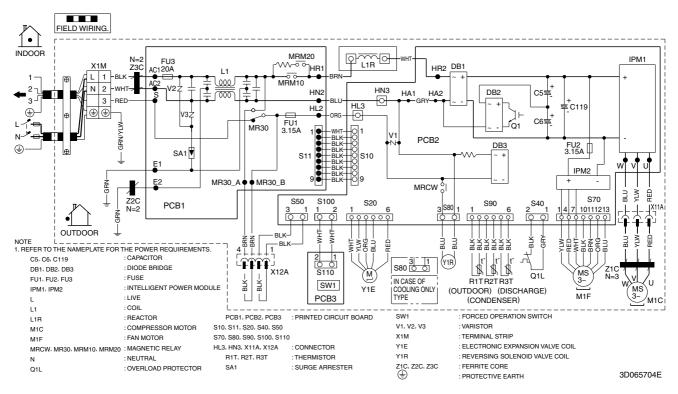
FTXG25/35/50JV1BW(S)(A)



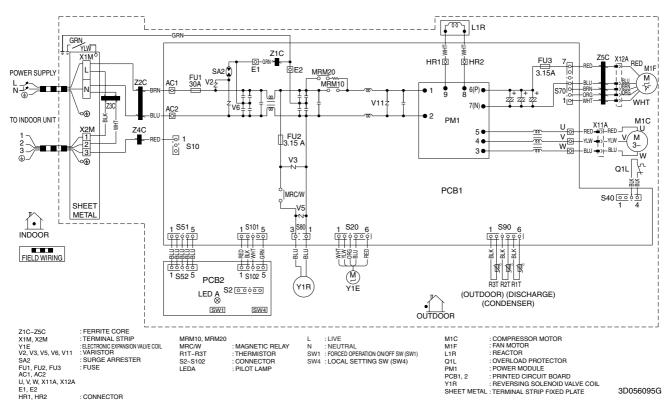
3D065507D

2.2 Outdoor Unit

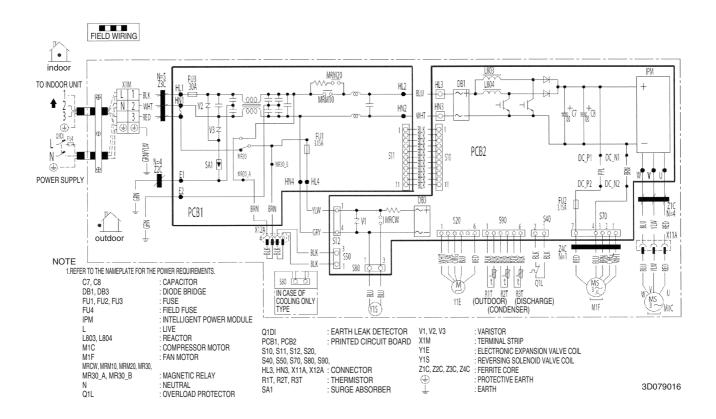
RXG25/35J2V1B, RXG25/35K2V1B, RXG25/35K3V1B



RXG50K2V1B



RXG50K3V1B



3. Removal Procedure (Booklet No.)

Refer to the following booklets for removal procedure.

*FTXG25/35/50JV1BW(S)(A)

*RXG25/35J2V1B, RXG25/35K2V1B

*RXG25/35K3V1B

*RXG50K2V1B

*RXG50K3V1B



Revision History

Month / Year	Version	Revised contents
04 / 2010	SiBE041012	First edition
06 / 2011	SiBE041012_A	Model addition: FTXG50JV1BW(S), RXG25/35/50K2V1B
12 / 2012	SiBE041012_B	Model addition: FTXG25/35/50JV1BA, RXG25/35/50K3V1B



- Daikin products are manufactured for export to numerous countries throughout the world. Prior to purchase, please confirm with your local authorised importer, distributor and/or retailer whether this product conforms to the applicable standards, and is suitable for use, in the region where the product will be used. This statement does not purport to exclude, restrict or modify the application of any local legislation.
- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
 If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

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