



Inverter Pair Wall Mounted Type FTX-G Series



[Applied Models] • Inverter Pair : Heat Pump

Inverter Pair Wall Mounted Type FTX-G Series

•Heat Pump

Indoor Unit

FTX50GV1B FTX60GV1B FTX71GV1B

Outdoor Unit

RX50G2V1B	RX60G2V1B	RX71GV1B
RX50G2V1B9	RX60G2V1B9	RX71GV1B9
RX50G3V1B	RX60G3V1B	RX71GV1B8
	RX60G4V1B	

	1. Safety Cautions	v
	1.1 Warnings and Cautions Regarding Safety of Workers	V
	1.2 Warnings and Cautions Regarding Safety of Users	vii
	2. Used Icons	x
Dort 1	List of Functions	1
Faiti		
	1. Functions	2
Part 2	Specifications	3
	1. Specifications	4
Dort 3	Brintod Circuit Board Connector Wiring Diagram	44
Fart J	Printed Circuit Board Connector Wiring Diagram	
	1. Indoor Unit	12
	2. Outdoor Unit	14
	2.1 RX50/60G2V1B, 71 Class	
	2.2 RX50/60G2V1B9, RX50/60G3V1B, RX60G4V1B	
Part 4	Function and Control	
	1. Main Functions	
	1.1 Temperature Control	
	1.2 Frequency Principle1.3 Airflow Direction Control	
	1.4 Fan Speed Control for Indoor Unit	
	1.5 Program Dry Operation	
	1.6 Automatic Operation	
	1.7 Thermostat Control	
	1.8 NIGHT SET Mode	
	1.9 HOME LEAVE Operation	
	1.10 INTELLIGENT EYE Operation	
	1.11 Inverter POWERFUL Operation	
	1.12 Clock Setting	
	1.13 Other Functions	
	2. Function of Thermistor	
	3. Control Specification	
	3.1 Mode Hierarchy	
	3.2 Frequency Control	
	3.3 Controls at Mode Changing / Start-up	
	3.4 Discharge Pipe Temperature Control	
	3.5 Input Current Control	
	3.6 Freeze-up Protection Control	
	3.7 Heating Peak-cut Control	
	3.8 Outdoor Fan Control	
	3.9 Liquid Compression Protection Function	40
	3.10 Defrost Control	
	3.11 Electronic Expansion Valve Control	42
	3.12 Malfunctions	45

Part 5	Remote	Controller	46
	1.	Remote Controller	47
Part 6	Service	Diagnosis	49
	1.	General Problem Symptoms and Check Items	51
		Troubleshooting with LED	
		2.1 Indoor Unit	
		2.2 Outdoor Unit	52
	3.	Service Diagnosis	53
		Troubleshooting	
		4.1 Error Codes and Description	
		4.2 Indoor Unit PCB Abnormality	57
		4.3 Freeze-up Protection Control / Heating Peak-cut Control	58
		4.4 Fan Motor (DC Motor) or Related Abnormality	
		4.5 Thermistor or Related Abnormality (Indoor Unit)	
		4.6 Refrigerant Shortage	
		4.7 Low-voltage Detection or Over-voltage Detection	
		4.8 Signal Transmission Error (Between Indoor Unit and Outdoor Unit)	66
		4.9 Signal Transmission Error on Outdoor Unit PCB (RX50/60G2V1B, 71 Class Only)	69
		4.10 Unspecified Voltage (Between Indoor Unit and Outdoor Unit)	
		4.11 Outdoor Unit PCB Abnormality	
		4.12 OL Activation (Compressor Overload)	
		4.13 Compressor Lock	
		4.14 DC Fan Lock	75
		4.15 Input Overcurrent Detection	76
		4.16 Four Way Valve Abnormality	77
		4.17 Discharge Pipe Temperature Control	
		4.18 High Pressure Control in Cooling	
		4.19 Compressor System Sensor Abnormality	
		4.20 Position Sensor Abnormality	
		4.21 CT or Related Abnormality (RX50/60G2V1B, 71 Class Only)	
		4.22 Thermistor or Related Abnormality (Outdoor Unit)4.23 Electrical Box Temperature Rise	
		4.23 Electrical Box Temperature Rise	
		4.25 Output Overcurrent Detection	
	5	Check	
	5.	5.1 Thermistor Resistance Check	
		5.2 Indoor Fan Motor Connector Output Check	
		5.3 Power Supply Waveforms Check	
		5.4 Electronic Expansion Valve Check	
		5.5 Four Way Valve Performance Check	97
		5.6 Inverter Unit Refrigerant System Check	97
		5.7 Inverter Analyzer Check	
		5.8 Rotation Pulse Check on the Outdoor Unit PCB	
		5.9 Installation Condition Check	
		5.10 Discharge Pressure Check	
		5.11 Outdoor Fan System Check	
		5.12 Main Circuit Short Check	
		5.13 Capacitor Voltage Check	.102

	5.14 Power Module Check	102
Part 7	Trial Operation and Field Settings	104
	1. Pump Down Operation	105
	2. Forced Cooling Operation	106
	3. Trial Operation	107
	4. Field Settings	108
	4.1 When 2 Units are installed in 1 Room	
	4.2 Facility Setting (Cooling at Low Outdoor Temperature)	109
	4.3 Jumper and Switch Settings	110
	5. Silicon Grease on Power Transistor / Diode Bridge	111
Part 8	Appendix	112
	1. Piping Diagrams	113
	1.1 Indoor Unit	
	1.2 Outdoor Unit	113
	2. Wiring Diagrams	115
	2.1 Indoor Unit	115

1. Safety Cautions

Be sure to read the following safety cautions before conducting repair work. 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.

Caution Items The caution items are classified into A Warning and A Caution. The A Warning items are especially important since they can lead to death or serious injury if they are not followed closely. The A 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.

Pictograms

△ This symbol indicates the item for which caution must be exercised. The pictogram shows the item to which attention must be paid.

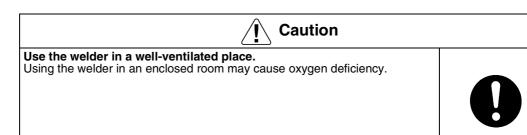
- This symbol indicates the prohibited action.
 - The prohibited item or action is shown in the illustration or near the symbol.
 - This symbol indicates the action that must be taken, or the instruction. The instruction is shown in the illustration or near the symbol.

1.1 Warnings and Cautions Regarding Safety of Workers

Warning	
Do not store the equipment in a room with successive fire sources (e.g., naked flame, gas appliance, electric heater).	\bigcirc
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.	₽ €
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
Be sure to discharge the capacitor completely before conducting repair work. The step-up capacitor supplies high-voltage electricity to the electrical components of the outdoor unit. A charged capacitor may cause an electrical shock.	Ą

🔶 Warning	
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
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-32 / R-410A refrigerant models, be sure to use pipes, flare nuts and tools for the exclusive use of the R-32 / 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
Do not mix air or gas other than the specified refrigerant (R-32 / 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

Caution	
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.	0
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.	0



1.2 Warnings and Cautions Regarding Safety of Users

Warning	
Do not store the equipment in a room with successive fire sources (e.g., naked flame, gas appliance, electric heater).	\bigcirc
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.	0
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.	0
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.	0
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.	0
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.	0
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

Warning	
Do not mix air or gas other than the specified refrigerant (R-32 / 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.	0
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
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.	0
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

Caution	
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.	Ð
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.	9
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

2. Used Icons

The following icons are used to attract the attention of the reader to specific information.

lcon	Type of Information	Description
Warning	Warning	A Warning is used when there is danger of personal injury.
Caution	Caution	A Caution is used when there is danger that the reader, through incorrect manipulation, may damage equipment, lose data, get an unexpected result or has to restart (part of) a procedure.
Note:	Note	A Note provides information that is not indispensable, but may nevertheless be valuable to the reader, such as tips and tricks.
	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

1. Functions

Category	Functions	FTX50/60/71GV1B RX50/60G2V1B, RX50/60G2V1B9 RX50/60G3V1B, RX60G4V1B RX71GV1B, RX71GV1B9, RX71GV1B8	Category	Functions	FTX50/60/71GV1B RX50/60G2V1B, RX50/60G2V1B9 RX50/60G3V1B, RX60G4V1B RX71GV1B, RX71GV1B9, RX71GV1B8
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	•
	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	•
	Auto-swing (up and down)	•		NIGHT SET mode	•
	Auto-swing (right and left)	•	Worry Free (Reliability &	Auto-restart (after power failure)	•
	3-D airflow	•	Durability)	Self-diagnosis (R/C, LED)	•
	COMFORT AIRFLOW operation	—	-	Wiring error check function	_
Comfort Control	Auto fan speed	•	_	Anti-corrosion treatment of outdoor	•
Control	Indoor unit quiet operation	•		heat exchanger	-
	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	•		Chargeless	10 m
	(preheating control)		-	Either side drain (right or left)	•
	Hot-start function	•		Power selection	
	Automatic defrosting	•	Remote Control	5-room centralized controller (option)	•
Operation	Automatic operation	•	Control	Remote control adaptor	•
	Program dry operation Fan only	•	-	(normal open pulse contact) (option) Remote control adaptor	•
Lifestyle	New POWERFUL operation	_	-	(normal open contact) (option) DIII-NET compatible (adaptor) (option)	•
Convenience	(non-inverter)	-	Domete		
	Inverter POWERFUL operation	•	Remote Controller	Wireless	•
	Priority-room setting COOL / HEAT mode lock			Wired (option)	•
	HOME LEAVE operation	•			
	ECONO operation	↓ ↓			
	Indoor unit ON/OFF button	•			
	Signal receiving sign	•			
	R/C with back light	-			
	Temperature display				
Note	Available	I —	↓ ·	Lower limit can be extended by turning s	witch or
NOLE.			^ .	cutting jumper. (facility use only)	

— : Not available

Lower limit can be extended by turning switch or cutting jumper. (facility use only) Refer to page 109 for detail.

Part 2 Specifications

1.	Specifications	4
----	----------------	---

1. Specifications

50 Hz, 220 - 230 - 240 V

	Indoor Unit			GV1B	FTX60GV1B			
Model	Outdoor Unit		Outdoor Unit RX50G2		G2V1B	RX60G2V1B		
			Cooling	Heating	Cooling	Heating		
Capacity Rate	^{od}	kW	5.0 (1.7 ~ 6.0)	5.8 (1.7 ~ 7.7)	6.0 (1.7 ~ 6.7)	7.0 (1.7 ~ 8.0)		
Min. ~ Max.)	,u	Btu/h	17,100 (5,800 ~ 20,500)	19,800 (5,800 ~ 26,300)	20,500 (5,800 ~ 22,900)	23,900 (5,800 ~ 27,300		
		kcal/h	4,300 (1,460 ~ 5,160)	4,990 (1,460 ~ 6,620)	5,160 (1,460 ~ 5,760)	6,020 (1,460 ~ 6,880)		
Running Curre		A	7.2 - 6.9 - 6.6	7.4 - 7.1 - 6.8	9.2 - 8.8 - 8.4	9.4 - 9.0 - 8.6		
Power Consur Min. ~ Max.)	mption Rated	w	1,550 (440 ~ 2,080)	1,600 (400 ~ 2,530)	1,990 (440 ~ 2,400)	2,040 (400 ~ 2,810)		
Power Factor		%	97.9 - 97.7 - 97.9	98.3 - 98.0 - 98.0				
COP Rated			97.9 - 97.7 - 97.9	98.3 - 98.0 - 98.0	98.3 - 98.3 - 98.7	98.6 - 98.6 - 98.8		
Min. ~ Max.)		W/W	3.23 (3.86 ~ 2.88)	3.63 (4.25 ~ 3.04)	3.02 (3.86 ~ 2.79)	3.43 (4.25 ~ 2.85)		
,	Liquid	mm	ф (5.4	φ.	6.4		
Piping	Gas	mm	¢ 1			2.7		
Connections	Drain	mm		8.0		8.0		
leat Insulatio				nd Gas Pipes		nd Gas Pipes		
	Piping Length	m		0		10		
	Height Difference	m		0	-	0		
Chargeless		m		0		0		
	ditional Charge of			-		-		
Refrigerant	anona onargo or	g/m	2	0	2	20		
ndoor Unit			FTX50	GV1B	FTX60)GV1B		
ront Panel C	olor		Wł	nite	W	nite		
	Н		14.7 (519)	16.1 (568)	16.2 (572)	17.4 (614)		
Aufler D	М	m³/min	12.4 (438)	13.9 (491)	13.6 (480)	15.1 (533)		
Airflow Rate	L	(cfm)	10.3 (364)	11.5 (406)	11.4 (403)	12.7 (448)		
	SL	-1 1	9.5 (335)	10.2 (360)	10.2 (360)	11.4 (403)		
	Туре			low Fan		low Fan		
an	Motor Output	W	4	3	4	3		
	Speed	Steps	5 Steps. C	Quiet. Auto	5 Steps. 0	Quiet, Auto		
ir Direction C			Right, Left, Horiz	ontal, Downward		contal, Downward		
Air Filter				able / Mildew Proof		able / Mildew Proof		
Running Curre	ent (Bated)	А	0.16 - 0.15 - 0.15 0.17 - 0.16 - 0.16		0.19 - 0.18 - 0.17	0.21 - 0.20 - 0.19		
ů.	mption (Rated)	W	34	36	40	45		
Power Factor	inplicit (fidlod)	%	96.6 - 98.6 - 94.4	96.3 - 97.8 - 93.8	95.7 - 96.6 - 98.0	97.4 - 97.8 - 98.7		
emperature (Control	<i>,</i> ,,		uter Control		uter Control		
Dimensions (H		mm		050 × 238		050 × 238		
	nensions (H \times W \times D)	mm		47 × 366	,	147 × 366		
Veight (Mass	, ,	kg	,	2	,	2		
	(Gross Mass)	kg		7		7		
Sound	(01033 101033)	ку	I	, [· · · · · ·			
Pressure Level	H/M/L/SL	dB(A)	43 / 39 / 34 / 31	42 / 38 / 33 / 30	45 / 41 / 36 / 33	44 / 40 / 35 / 32		
Sound Power	Level	dB	59	58	61	60		
Outdoor Unit			RX500	G2V1B	RX600	G2V1B		
Casing Color			Ivory White		Ivory	White		
	Туре		Hermetically Sea	aled Swing Type	Hermetically Se	aled Swing Type		
Compressor	Model		2YC3	6BXD	2YC3	6BXD		
	Motor Output	W	1,1	100	1,1	100		
Refrigerant	Туре	· ·	FVC	50K	FVC	50K		
Dil	Charge	L	0.	65	0.65			
) of the out of the	Туре	-		10A		10A		
Refrigerant	Charge	kg	1.50		1.	50		
	HH		50.9 (1,797)	—	54.2 (1,914)	—		
Airflow Rate	Н	m³/min	48.9 (1,727)	45.0 (1,589)	50.9 (1,797)	46.3 (1,635)		
	SL	(cfm)	41.7 (42.4 (
	Туре			peller	Prop	beller		
an	Motor Output	W	5	3	5	3		
Running Curre		A	7.04 - 6.75 - 6.45	7.23 - 6.94 - 6.64	9.01 - 8.62 - 8.23	9.19 - 8.80 - 8.41		
J.	mption (Rated)	W	1,516 - 1,516 - 1,516	1,564 - 1,564 - 1,564	1,950 - 1,950 - 1,950	1,995 - 1,995 - 1,995		
Power Factor		%	97.9 - 97.6 - 97.9	98.3 - 98.0 - 98.1	98.4 - 98.4 - 98.7	98.7 - 98.6 - 98.8		
Starting Curre	ent	A		.4		.4		
	$H \times W \times D$	mm		25 × 300	-	25 × 300		
	nensions ($H \times W \times D$)	mm		92 × 390		92 × 390		
(5			8		8		
Packaged Din	Gross Weight (Gross Mass)			3		3		
Packaged Din Veight (Mass		ka				~		
Packaged Din Neight (Mass Gross Weight		kg						
Packaged Din Neight (Mass		kg dB(A)	47 / 44	48 / 45	49 / 46	49 / 46		
Packaged Din Veight (Mass Gross Weight Sound Pressure	(Gross Mass)			48 / 45 62	49 / 46 63	49 / 46 63		

Note:

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

The data are based on the co	nditions shown in the table belo	W.	Convers
Cooling	Heating	Piping Length	
Indoor ; 27°CDB / 19°CWB Outdoor ; 35°CDB / 24°CWB	Indoor ; 20°CDB Outdoor ; 7°CDB / 6°CWB	5 m	kcal/h Btu/h cfm = r

ersion Formulae $h = kW \times 860$ $h = kW \times 3412$ $m^{3}/min \times 35.3$

	Indoor Unit		FTX71	GV1B			
Model	Outdoor Unit		RX71GV1B				
	Outdoor Unit		Cooling	Heating			
о <u>пр</u>		kW	7.1 (2.3 ~ 8.5)	8.2 (2.3 ~ 10.2)			
Capacity Rate (Min. ~ Max.)	ed	Btu/h	24,200 (7,800 ~ 29,000)	28,000 (7,800 ~ 34,800)			
(11111 111604)		kcal/h	6,110 (1,980 ~ 7,310)	7,050 (1,980 ~ 8,770)			
Running Curre		А	10.8 - 10.4 - 9.9	11.7 - 11.2 - 10.7			
Power Consur	mption Rated	w	2,350 (570 ~ 3,200)	2,550 (520 ~ 3,820)			
(Min. ~ Max.)		0/					
Power Factor COP Rated		%	98.9 - 98.2 - 98.9	99.1 - 99.0 - 99.3			
(Min. ~ Max.)		W/W	3.02 (4.04 ~ 2.66)	3.22 (4.42 ~ 2.67)			
(Liquid	mm	φ6	.4			
Piping Connections	Gas	mm	¢ 1				
Connections	Drain	mm	¢ 18	8.0			
Heat Insulation	n		Both Liquid ar	nd Gas Pipes			
Max. Interunit	Piping Length	m	. 30	•			
	Height Difference	m	20	0			
Chargeless	0	m	1(0			
Amount of Ade	ditional Charge of	g/m	20	D			
Refrigerant	•	y/m		-			
Indoor Unit			FTX71				
Front Panel C			Wh				
	Н	┛╽	17.4 (614)	19.7 (696)			
Airflow Rate	M	m³/min	14.6 (516)	16.9 (597)			
	L	(cfm)	11.6 (410)	14.3 (505)			
	SL		10.6 (374)	12.7 (448)			
_	Туре		Cross Fl				
Fan	Motor Output	W	4(-			
	Speed	Steps	5 Steps, Q				
Air Direction C	Control		Right, Left, Horizo				
Air Filter			Removable / Washa				
Running Curre		A	0.21 - 0.20 - 0.19	0.28 - 0.27 - 0.26			
	mption (Rated)	W	45 - 45 - 45	60 - 60 - 60			
Power Factor	• • •	%	97.4 - 97.8 - 98.7	97.4 - 96.6 - 96.2			
Temperature (Microcompu				
Dimensions (H		mm	290 × 1,0				
	nensions ($H \times W \times D$)	mm	337 × 1,1				
Weight (Mass)		kg	12				
Gross Weight	(Gross Mass)	kg	1	7			
Sound Pressure Level	H/M/L/SL	dB(A)	46 / 42 / 37 / 34	46 / 42 / 37 / 34			
Sound Power	Level	dB	62	62			
Outdoor Unit	it		RX710	GV1B			
Casing Color			Ivory V	White			
	Туре		Hermetically Sea	aled Swing Type			
Compressor	Model		2YC63	-			
	Motor Output W		1,9				
Refrigerant	Туре		FVC	50K			
Oil	Charge	L	0.7				
Refrigerant	Туре		R-4				
- 3	Charge	kg	2.3				
	HH	m³/min	57.1 (2,016)				
Airflow Rate	H	(cfm)	54.5 (1,924)	46.0 (1,624)			
	SL	, ,	46.0 (1,624)	46.0 (1,624)			
Fan	Туре		Prop				
	Motor Output	W	6				
Running Curre		A	10.59 - 10.20 - 9.71	11.42 - 10.93 - 10.44			
	mption (Rated)	W	2,305 - 2,305 - 2,305	2,490 - 2,490 - 2,490			
Power Factor		%	98.9 - 98.3 - 98.9	99.1 - 99.0 - 99.4			
Starting Curre		A		11.7			
Dimensions $(H \times W \times D)$ Packaged Dimensions $(H \times W \times D)$		mm	770 × 90 900 × 92				
		mm					
Weight (Mass)		kg	7				
Gross Weight	(Gross Mass)	kg	75	9			
Sound Pressure Level	H/SL	dB(A)	52 / 49	52 / 49			
Sound Power Level	н	dB	66	66			
Drawing No.			3D06	6641			

Note:

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

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

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

Node/ Ductoor Unit Instance/ Figure 2 Instanc		Indoor Unit		FTX50GV1B FTX60GV1B					
Interview Cooling (Mn - Max, J) Low (T - 6.0) (Mn - Max, J) Low (T - 6.0) (Mn - Max, J) Cooling (Mn - Max, J) Cooling (Mn - 2,00) Cooling (Mn - 2,00)<	Model	1		BX50G2V1B9			RX60G2V1B9		
Capacity Pieted Min - Max.2 Buth balk 17.100.5800 - 28.0500 19.800 5800 - 28.3001 20.500 5800 - 28.0001 2		Outdoor Unit	Ī	Cooling	Heating	Cooling	Heating		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$			kW	5.0 (1.7 ~ 6.0)	5.8 (1.7 ~ 7.7)	6.0 (1.7 ~ 6.7)	7.0 (1.7 ~ 8.0)		
Incluming Current Failed A 4.330 (1.460 - 5.100) 4.930 (1.460 - 6.200) 5.160 (1.460 - 5.700) 4.020 (1.460 - 5.700) 4.930 (1.460 - 5.700) 4.930 (1.460 - 5.700) 4.930 (1.460 - 5.700) 4.930 (1.460 - 5.700) 2.040 (400 - 2.230) 1.930 (440 - 2.430) 2.040 (400 - 2.530) 2.040 (400 - 2.530) 2.040 (400 - 2.530) 2.040 (400 - 2.530) 2.040 (400 - 2.530) 2.040 (400 - 2.530) 2.040 (400 - 2.530) 2.040 (400 - 2.530) 2.040 (400 - 2.530) 2.040 (400 - 2.530) 2.040 (400 - 2.530) 2.040 (400 - 2.530) 2.040 (400 - 2.530) 2.040 (400 - 2.530) 2.040 (400 - 2.530) 2.040 (400 - 2.530) 2.040 (400 - 2.530) 2.040 (400 - 2.530) 2.02 (3.86 - 2.78) 3.43 (4.25 - 2.100) 3.02 (3.86 - 2.78) 3.03 (3.86 - 2.88) 3.03 (3.08 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.86 - 2.78) 3.02 (3.76 - 2.76) 1.02 (3.7	Capacity Rate (Min ~ Max)	1	Btu/h	17,100 (5,800 ~ 20,500)	19,800 (5,800 ~ 26,300)	20,500 (5,800 ~ 22,900)	23,900 (5,800 ~ 27,300)		
Paper Conservation Railed W 1,550 (440 - 2,080) 1,800 (440 - 2,400) 2,040 (400 - 2,400) 82,040 (400 - 2,400) 98,3 - 98,0 - 98,0 98,3 - 98,3 - 98,0 98,3 - 98,3 - 98,0 98,3 - 98,3 - 98,0 98,3 - 98,3 - 98,8 - 98,7 98,8 - 88,5 - 98,3 - 98,0 - 98,4 - 9			kcal/h	4,300 (1,460 ~ 5,160)	4,990 (1,460 ~ 6,620)	5,160 (1,460 ~ 5,760)	6,020 (1,460 ~ 6,880)		
Min Max, J Yin 1,350 (Hal) - 2,250 / 1,350 (Hal) - 2,270 / 1,350 (Hal) - 2,170 / 1,360 (Hal) - 2,170 / 1,370 (Hal) - 1,370 / 1,370 / 1,370 / 1,370 / 1,370 / 1,370 / 1,370 / 1,370 / 1,370 / 1,370 / 1,370 / 1,370 / 1,370 /	Running Curre	nt Rated	Α	7.2 - 6.9 - 6.6	7.4 - 7.1 - 6.8	9.2 - 8.8 - 8.4	9.4 - 9.0 - 8.6		
Image Image <th< td=""><td></td><td>nption Rated</td><td>W</td><td>1 550 (440 ~ 2 080)</td><td>1 600 (400 ~ 2 530)</td><td>1 990 (440 ~ 2 400)</td><td>2 040 (400 ~ 2 810)</td></th<>		nption Rated	W	1 550 (440 ~ 2 080)	1 600 (400 ~ 2 530)	1 990 (440 ~ 2 400)	2 040 (400 ~ 2 810)		
CDP Flated mom WW 3.23 (3.86 - 2.89) 3.63 (4.25 - 3.04) 3.02 (3.86 - 2.79) 3.43 (4.25 - 2.4 0 = 6.4 Compositions Data Liquid mm mm 0.6.4 0.6.4 0.6.4 Compositions Data Compositions Data Compositions Data Compositions Data 0.00000000000000000000000000000000000									
Idm. – Max) WW 3.24 (3.89 - 2.88) 3.33 (4.25 - 3.04) 3.30 (3.80 - 2.19) 3.30 (3.80 - 2.11) 3.30 (3.80 - 2.11) 3.30 (3.80 - 2.11) 3.30 (3.80 - 2.11) 3.30 (3.80 - 2.11) 3.30 (3.80 - 2.11) 3.30 (3.80 - 2.11) 3.30 (3.80 - 2.11) 3.30 (3.80 - 2.11) 3.30 (3.80 - 2.11) 3.30 (3.80 - 2.11) 3.30 (3.80 - 2.11) 3.30 (3.80 - 2.11) 3.30 (3.80 - 2.11) 3.30 (3.80 - 2.11) 3.30 (3.80 - 2.11)			%	97.9 - 97.7 - 97.9	98.3 - 98.0 - 98.0	98.3 - 98.3 - 98.7	98.6 - 98.6 - 98.8		
Data nm 0 12.7 0 12.7 0 12.7 Heat Insulation mm 0 011.0juit and Gas Pipes Both Liquit and Gas Pipes Both Liquit and Gas Pipes Max. Internut Pring Length m 30 30 Max. Internut Pring Length m 20 20 Drargeless m 10 10 Arround Additional Charge of Refriguent g/m 20 20 Indoor Unit FTXSGOVIB FTXSGOVIB FTXSGOVIB Indoor Cont White 14.7 (519) 16.1 (568) 16.2 (572) 17.4 (614) Indoor Unit 12.7 (4614) 13.9 (491) 13.6 (480) 15.1 (533) 11.1 (403) 12.7 (4614) Speed Sseps Cross Flow Flan Cross Flow Flan Korton 11.4 (403) 12.7 (4614) Type Cross Flow Flan Global 11.4 (403) 12.7 (4614) 12.7 (4614) Speed Steps Steps Steps 30.1 (400) 11.4 (403) 12.7 (4614) Firster Refriter Refriter Refriter			W/W	(<i>i</i>			3.43 (4.25 ~ 2.85)		
Connection Connection <thconnection< th=""> Connection Connecti</thconnection<>	Dining	Liquid	mm	φ 6	6.4				
	Connections	Gas	mm	φ 1	2.7	φ1	2.7		
Max. Intervul Pairog Length m 30 30 Chargeless m 10 10 Chargeless m 10 10 Anyount of Additoral Charge of Petrogrant g/m 20 20 Deletigerant m 10 10 Anyount of Additoral Charge of Petrogrant g/m 20 20 Deletigerant Mile FTXSGCV18 FTXSGCV18 FTXSGCV19 Front Parel Calor White White White White White Millow Rate Mile m*min 12.4 (438) 13.3 (491) 13.6 (460) 15.1 (533) Type Coss Row Fan Goss Row Fan Goss Row Fan Goss Row Fan Goss Row Fan Trype Fype Forschort Not Fype Removable / Washable / Mildew Pool Right, Left, Horizontal, Downward			mm						
Max. Interrunt Hight Difference m 20 Arrangless m 10 10 Andort Additional Charge of Refigurant g/m 20 20 Strageless m 10 10 Andort Additional Charge of Refigurant g/m 20 20 Strageless m 10.5 FTXSGOV1B FTXGOV1C Andort Additional Charge of Refigurant m 114.7 (519) 16.1 (568) 16.2 (672) 17.4 (614) Anthone Max Max 12.4 (438) 13.3 (491) 13.6 (400) 15.1 (533) Sta Type Cross Flow Fan Cross Flow Fan Cross Flow Fan Torolocion Control W 43 43 43 Speed Steps 0.5 (5.0 0.7 0.1 0.2 (660) 10.1 4.0 0.0 1.5 0.1 0.1 0.1 0.1 0.1 0.0 1.0 0.0 1.0 0.1 0.0 1.0 0.0 1.0 0.0 0				Both Liquid a	nd Gas Pipes	Both Liquid a	nd Gas Pipes		
Darageles m 10 10 refigerant g/m 20 20 refigerant m 10 10 rond Pault Mile While While rond Pault Mile While While rond Pault Mile While While window Nate Mile While While indow Unit 14.7 (51) 16.1 (569) 16.2 (572) 17.4 (614) indow Unit Mile While While While While indow Chart Stage 53305 10.2 (360) 11.4 (403) 12.7 (464) indow Chart Weight Laft, Horizontal, Downward Pault Laft, Hori	Max. Interunit	Piping Length	m	3	0	3	0		
mount of Additional Charge of defigurant g/m 20 20 indoor Unit croft Parel Color FTXS05V1B FTXS05V1B Vertex rong Parel Color White White White White Information Parel Color 14.7 (519) 16.1 (568) 16.2 (672) 17.4 (614) Varion Rate Site Monor Output W 12.4 (439) 13.3 (491) 13.6 (400) 15.1 (533) Speed Speed Speed Speed Speed 5 Steps, Outer, Auto 5 Steps, Outer, Auto 5 Steps, Outer, Auto 5 Steps, Outer, Auto 7.9 Parcovable/ Washable/ Mildow Pool Removable/ Washable/ Mildow Pool Removable/ Washable/ Mildow Pool Removable/ Washable/ Mildow Pool 7.9 Parcovable/ Washable/ Mildow Pool Removable/ Washable/ Mildow Pool Removable/ Washable/ Mildow Pool Removable/ Washable/ Mildow Pool 7.9 Parcovable/ Washable/ Mildow Pool Removable/ Washable/ Mildow Pool Removable/ Washable/ Mildow Pool 7.9 Parcovable/ Washable/ Mildow Pool	Max. Interunit	Height Difference	m	2	0	2	.0		
Vehicy Vinite Construction Indoor Unit TXSOGV1B TXSOGV1B TXSOGV1B Torolt Panel Color White White White Indoor Unit TXSOGV1B TXSOGV1B TXSOGV1B Indoor Unit Mile White White White Indoor Unit Mile TXSOGV1B TXSOGV1B TXSOGV1B Indoor Unit W 43 53 40 43 Special Status Status 76 58 58 58 58 58 40 0.16 0.19 0.16 0.17 0.21<0.20	Chargeless		m	1	0	1	0		
Heritgrant 0 FTX50GV1B FTX50GV1B FORT Panel Color White White White White icons Panel Color White White White White icons Panel Color White White White White icons Panel Color White 11.4.7 (519) 16.1 (568) 11.6.2 (572) 17.4 (614) icons Panel Color Type Cross Flow Panel Cross Flow Panel Cross Flow Panel Cross Flow Panel an Motor Output W 43 43 43 bypec Forsumption Control Right, Left, Horizontal, Downward Flight, Left, Horizontal, Downward Proceeding Horizontal, Downward Vir Filter Removale/Washabel/ Midew Proof Removale/Washabel/ Midew Proof Removale/Washabel/ Midew Proof Speed Steps, Culicit, Auto 5.865, Culic, Auto Steps, Culic, Auto Steps, Culic, Auto Simportaure Control W 43 96.3 -97.8-93.8 95.7 -96.6 -96.0 97.4 -97.8 -96 Simportaure Control mm 337.1 147.8 366 337.1 147.8 366 337		litional Charge of	g/m	2	0	2	0		
Font Panel Color White White White Inflow Rate H 147 (519) 161 (568) 162 (52) 17.4 (614) Inflow Rate H (m) 10.3 (364) 11.5 (406) 11.4 (403) 12.7 (446) Start Start Start Start Start 10.2 (360) 10.2 (360) 11.4 (403) 12.7 (446) Speed Steps Start Start Start A 43 43 Speed Steps Start Start Start Start Start A 43 44 44 44 44 44 44 44 45 45 45 45 45 45 45 45 45 45 45 45 45 45 45 45 45 45	0		9/11				-		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$									
Mindow Rate M m m/min 12.4 (438) 13.9 (491) 13.6 (480) 15.1 (333) SL 0.03 (364) 11.5 (406) 11.4 (403) 12.7 (448) SL 0.02 (360) 10.2 (360) 10.2 (360) 10.2 (360) Type 0.03 (364) 11.5 (406) 11.4 (403) 12.7 (448) Speed Steps 5.5 (495, Auet, Auto 5 (495, Auet, Auto 5 (495, Auet, Auto Vir Direction Control Right, Left, Horoznath, Downward Regnovable (Washable / Mildew Proof 0.18 - 0.18 - 0.18 - 0.17 0.21 - 0.20 - 0. Swer Factor % 66 6.9 6.6 -9.44 96.3 -9.8 -9.8 95.7 -96.9 e.98.0 97.4 -97.8 -98 Packaged Dimensions (H × W × D) mm 209 × 1.060 × 238 2920 × 1.050 × 238 2920 × 1.050 × 238 Packaged Dimensions (H × W × D) mm 237 × 1.147 × 366 237 × 1.147 × 366 237 × 1.147 × 366 Sound Dower Level dB 59 58 60 59 Sound Dower Level dB 59 58 60 59 Sound Dower Level dB<	Front Panel Co								
Unitov Hate L (cfm) 10.3 (364) 11.5 (406) 11.4 (403) 12.7 (448) SL 9.5 (335) 10.2 (360) 10.2 (360) 11.4 (403) 12.7 (448) Fan Motor Output W 43 43 43 Speed Stepes 5 Steps, Outel, Auto 5 Steps, Outel, Auto 7 Steps, Outel, Auto Verifier Reght, Left, Horizontal, Downward Right, Left, Horizontal, Downward Right, Left, Horizontal, Downward 12.1 - 0.20 · 0.17 0.21 · 0.20 · 0.17 0.21 · 0.20 · 0.17 0.21 · 0.20 · 0.17 0.21 · 0.20 · 0.17 0.21 · 0.20 · 0.17 0.21 · 0.20 · 0.17 0.21 · 0.20 · 0.17 0.21 · 0.20 · 0.100 Nmmark 96.6 · 96.6 · 96.4 · 96.6 · 97.8 · 98.8 95.7 · 96.6 · 90.0 97.4 · 97.8 · 92 Microcomputer Control Micro Microcomputer Control			_						
L (mm) 10.3 (364) 11.5 (406) 11.4 (403) 12.7 (448) Speed Type Cross Flow Fan 10.2 (360) 10.2 (360) 11.4 (403) Fan Molor Output W 43 43 43 Ar Direction Control Fight, Left, Horizontal, Downward Fight, Left, Horizontal, Downward Right, Left, Horizontal, Downward Running Current (Rated) A 0.16 - 0.15 - 0.15 0.17 - 0.16 - 0.16 0.19 - 0.18 - 0.17 0.21 - 0.20 - 0.2	Airflow Rate	М							
Type Cross Flow Fan Cross Flow Fan Cross Flow Fan Fan Speed Steps 5 Steps, Quiet, Auto 5 Steps, Quiet, Auto Speed Steps 5 Steps, Quiet, Auto 5 Steps, Quiet, Auto Fight, Left, Horizontal, Downward Air Filter Removable / Washable / Middew Proof Removable / Washable / Middew Proof Removable / Washable / Middew Proof Nover Consumption (Rated) A 0.16 - 0.15 - 0.15 0.17 - 0.16 - 0.16 0.19 - 0.18 - 0.17 0.21 - 0.20 - 0.0 Power Factor % 96.6 - 98.6 - 94.4 96.3 - 97.8 - 93.8 95.7 - 96.6 - 98.0 97.4 - 97.8 - 93.8 Premorature Control Microcomputer Control Microcomputer Control Microcomputer Control Microcomputer Control Dimensions (H × W × D) mm .337 × 1.147 × 366 .337 × 1.147 × 366 .337 × 1.147 × 366 Sound freesure IdB 59 58 60 59 Outdoor Unit RK50G2V1B9 T T T 7 Sound Type Hermotable / Mashable / Middew Bade Swing Type Hermotable / Mashable / Middew Bade Swing Type <td>annow hald</td> <td>=</td> <td>(cfm)</td> <td>· · · /</td> <td></td> <td></td> <td>· · · · ·</td>	annow hald	=	(cfm)	· · · /			· · · · ·		
Fan Moor Output W COUL Count Count Count Count Count Count Steps, Quiet, Auto Steps, Quiet, Auto Steps, Quiet, Auto Air Direction Control Right, Left, Horizontal, Downward		SL		· · · /					
Speed Steps G Steps, Outet, Auto S Steps, Outet, Auto Nr Direction Control Right, Left, Horizontal, Downward Right, Left, Horizontal, Downward Right, Left, Horizontal, Downward Numing Current (Rated) A 0.16 - 0.15 - 0.15 0.17 - 0.16 - 0.16 0.19 - 0.18 - 0.17 0.21 - 0.20 - 0.0 Nower Consumption (Rated) W 34 - 34 - 34 36 - 36 - 36 40 - 40 - 40 45 - 45 - 45 Ower Consumption (Rated) W 34 - 34 - 34 96 - 59 - 98 - 38 95.7 - 96 - 98 0 97.4 - 97.8 - 98 Diversions (I + W W D) mm 290 x 1,050 x 233 290 x 1,050 x 238 280 x 1,050 x 238 <		Туре		Cross F	low Fan	Cross F	low Fan		
Vir Direction Control Flight, Left, Horizontal, Downward Right, Left, Horizontal, Downward Nir Filter Removable / Washable / Mildew Proof Removable / Washable / Mildew Proof Nurning Current (Rated) A 0.16 - 0.15 - 0.15 0.17 - 0.16 - 0.16 0.19 - 0.18 - 0.17 0.21 - 0.20 - 0	an	Motor Output	W	4	3	43			
Nr.Filter Removable / Washable / Mildew Proof Removable / Washable / Mildew Proof Running Current (Rated) A 0.16 - 0.15 - 0.15 0.17 - 0.16 - 0.16 0.19 - 0.18 - 0.17 0.21 - 0.20 - 0. Source Consumption (Rated) W 34 - 34 - 34 36 - 36 - 36 40 - 40 - 40 45 - 45 - 45 Sover Chart % 96.6 - 98.6 - 94.4 96.3 - 97.8 - 93.8 95.7 - 96.6 - 98.0 97.4 - 97.8 - 95 Ferrepretater Control Microcomputer Control Microcomputer Control 12 12 12 Strakeged Dimensions (H × W × D) mm 337 × 1,147 × 366 337 × 1,147 × 366 147 17 Sound H/M / L / SL dB(A) 43 / 39 / 34 / 31 42 / 38 / 33 / 30 45 / 41 / 36 / 33 44 / 40 / 35 / 3 Sound Vere Level dB 59 58 60 59 Datdoor Unit RXSOG2V1B9 RXSOG2V1B9 RXSOG2V1B9 2VC386XD Compressor Model 2VC366XD 2VC366XD 2VC366XD Different Type R-410A R-410A R-410A Charge <td></td> <td>Speed</td> <td>Steps</td> <td>5 Steps, C</td> <td>Quiet, Auto</td> <td>5 Steps, C</td> <td>Quiet, Auto</td>		Speed	Steps	5 Steps, C	Quiet, Auto	5 Steps, C	Quiet, Auto		
Junning Current (Rated) A 0.16 - 0.15 - 0.15 0.17 - 0.16 - 0.16 0.19 - 0.18 - 0.17 0.21 - 0.20 - 0. Power Consumption (Rated) W 34 - 34 - 34 36 - 36 - 36 40 - 40 - 40 45 - 45 - 45 Power Factor % 96.6 - 98.6 - 94.4 96.3 - 97.8 - 93.8 95.7 - 96.6 - 98.0 97.4 - 97.8 - 92 Timensions (H × W × D) mm 290 × 1.050 × 238 290 × 1.050 × 238 290 × 1.050 × 238 Packaged Dimensions (H × W × D) mm 337 × 1.147 × 366 337 × 1.147 × 366 337 × 1.147 × 366 Sices Weight (Gass Mass) kg 17 17 17 Sound H / M / L / SL dB(A) 43 / 39 / 34 / 31 42 / 38 / 33 / 30 45 / 41 / 36 / 33 44 / 40 / 35 / 3 Sound Power Level dB 59 58 60 59 Dattoor Unit RX5002V189 RX6002V189 RX6002V189 Nordy White Nordy White Nordy White Nordy Wordy White Nordy White Nordy Wordy Wordy White Nordy Wordy	Air Direction C	ontrol		Right, Left, Horiz	ontal, Downward	Right, Left, Horiz	contal, Downward		
Dover Consumption (Rated) W 34 - 34 - 34 36 - 36 - 36 40 - 40 - 40 45 - 45 - 45 Owner Factor % 96.6 - 98.6 - 94.4 96.3 - 97.8 - 93.8 95.7 - 96.6 - 98.0 97.4 - 97.8 - 93.8 Emperature Control Microcomputer Control Microcomputer Control Microcomputer Control Microcomputer Control Dimensions (H × W × D) mm 290 × 1,050 × 238 290 × 1,050 × 238 290 × 1,050 × 238 Packaged Dimensions (H × W × D) mm 337 × 1,147 × 366 337 × 1,147 × 366 337 × 1,147 × 366 Sound Pressure kg 12 12 12 12 Sound Pressure H / M / L / SL dB(A) 43 / 39 / 34 / 31 42 / 38 / 33 / 30 45 / 41 / 36 / 33 44 / 40 / 35 / 33 Sound Pressure H / M / L / SL dB(A) 43 / 39 / 34 / 31 42 / 38 / 33 / 30 45 / 41 / 36 / 33 44 / 40 / 35 / 33 Sound Prover Level dB 59 58 60 59 Data corr Unit RX6062V1B9 RX6062V1B9 RX6062V1B9 RX6062V1B9 Compresor Micro Output W <td>Air Filter</td> <td></td> <td></td> <td>Removable / Wash</td> <td>able / Mildew Proof</td> <td>Removable / Wash</td> <td>able / Mildew Proof</td>	Air Filter			Removable / Wash	able / Mildew Proof	Removable / Wash	able / Mildew Proof		
Power Factor % 96.6 - 98.6 - 94.4 96.3 - 97.8 - 93.8 95.7 - 96.6 - 98.0 97.4 - 97.8 - 96.6 Fernperature Control Microcomputer Control Microcomputer Control Microcomputer Control Dimensions (H × W × D) mm 290 × 1,050 × 238 290 × 1,050 × 238 290 × 1,050 × 238 Packaged Dimensions (H × W × D) mm 337 × 1,147 × 366 337 × 1,147 × 366 293 × 1,050 × 238 Packaged Dimensions (H × W × D) mm 337 × 1,147 × 366 337 × 1,147 × 366 293 × 1,050 × 238 Packaged Dimensions (H × W × D) mm 337 × 1,147 × 366 337 × 1,147 × 366 337 × 1,147 × 366 Packaged Dimensions (H × W × D) mm 337 × 1,147 × 366 337 × 1,147 × 366 337 × 1,147 × 366 Sound Power Level dB 59 58 60 59 Dutdoor Unit Packaged Swing Type Rx6062v1B9 Rx6062v1B9 Rx6062v1B9 Compressor Type Hermetically Sealed Swing Type Processue 27C368XD Controp Vory White Ivory White Vory White Vory White Compresor Typ	Running Curre	nt (Rated)	Α	0.16 - 0.15 - 0.15	0.17 - 0.16 - 0.16	0.19 - 0.18 - 0.17	0.21 - 0.20 - 0.19		
Power Factor % 96.6 - 98.6 - 94.4 96.3 - 97.8 - 93.8 95.7 - 96.6 - 98.0 97.4 - 97.8 - 96.6 Fernperature Control Microcomputer Control Microcomputer Control Microcomputer Control Dimensions (H × W × D) mm 290 × 1,050 × 238 290 × 1,050 × 238 290 × 1,050 × 238 Packaged Dimensions (H × W × D) mm 337 × 1,147 × 366 337 × 1,147 × 366 293 × 1,050 × 238 Packaged Dimensions (H × W × D) mm 337 × 1,147 × 366 337 × 1,147 × 366 293 × 1,050 × 238 Packaged Dimensions (H × W × D) mm 337 × 1,147 × 366 337 × 1,147 × 366 337 × 1,147 × 366 Packaged Dimensions (H × W × D) mm 337 × 1,147 × 366 337 × 1,147 × 366 337 × 1,147 × 366 Sound Power Level dB 59 58 60 59 Dutdoor Unit Packaged Swing Type Rx6062v1B9 Rx6062v1B9 Rx6062v1B9 Compressor Type Hermetically Sealed Swing Type Processue 27C368XD Controp Vory White Ivory White Vory White Vory White Compresor Typ	Power Consur	notion (Rated)	W	34 - 34 - 34	36 - 36 - 36	40 - 40 - 40			
Temperature Control Microcomputer Control Microcomputer Control Dimensions (H × W × D) mm 290 × 1,050 × 238 290 × 1,050 × 238 Packaged Dimensions (H × W × D) mm 337 × 1,147 × 366 337 × 1,147 × 366 Weight (Gross Mass) kg 12 17 Sound Pressure H / M / L / SL dB(A) 43 / 39 / 34 / 31 42 / 38 / 33 / 30 45 / 41 / 36 / 33 44 / 40 / 35 / 3 Sound Pressure H / M / L / SL dB(A) 43 / 39 / 34 / 31 42 / 38 / 33 / 30 45 / 41 / 36 / 33 44 / 40 / 35 / 3 Sound Pressure H / M / L / SL dB(A) 43 / 39 / 34 / 31 42 / 38 / 33 / 30 45 / 41 / 36 / 33 44 / 40 / 35 / 3 Sound Prover Level dB 59 58 60 59 Outdoor Unit RX5062v1B9 RX6062v1B9 RX6062v1B9 Rx6062v1B9 Compressor Model 2VC368XD 2VC368XD 2VC368XD 2VC368XD Compressor Model 2VC368XD 2VC368XD 2VC368XD 2VC368XD 2VC368XD Compressor Model </td <td></td> <td> ,</td> <td>%</td> <td>96.6 - 98.6 - 94.4</td> <td>96.3 - 97.8 - 93.8</td> <td>95.7 - 96.6 - 98.0</td> <td>97.4 - 97.8 - 98.7</td>		,	%	96.6 - 98.6 - 94.4	96.3 - 97.8 - 93.8	95.7 - 96.6 - 98.0	97.4 - 97.8 - 98.7		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Temperature (Control		Microcomp	uter Control	Microcomp	uter Control		
Packaged Dimensions (H × W × D) mm 337 × 1,147 × 366 337 × 1,147 × 366 Weight (Mass) kg 12 12 12 Gross Weight (Gross Mass) kg 17 17 Sound rssued 14 12/strain 17 Sound Mass dB(A) 43 / 39 / 34 / 31 42 / 38 / 33 / 30 45 / 41 / 36 / 33 44 / 40 / 35 / 3 Sound Pressure Level dB 59 58 60 59 Dictoor Unit RX50G2V1B9 RX60C2V1B9 RX60C2V1B9 RX60C2V1B9 Sound Nory White Nory Gro			mm	290 × 1,050 × 238					
Weight (Mass) kg 12 12 Gross Weight (Gross Mass) kg 17 17 Gross Weight (Gross Mass) kg 17 17 Sound Pressure H/M/L/SL dB(A) 43/39/34/31 42/38/33/30 45/41/36/33 44/40/35/3 Sound Power Level dB 59 58 60 59 Outdoor Unit RX50G2V1B9 RX60C2V1B9 RX60C2V1B9 Casing Color Ivory White Ivory White Ivory White Ivory White Compressor Model 2YC36BXD 2YC36BXD 2YC36BXD Motor Output W 1,100 1,100 1,100 Refrigerant Type FVC50K FVC50K FVC50K Charge L 0.65 0.65 0.65 Refrigerant Type R410A R410A R410A Fan m?? 48.9 (1,727) 45.0 (1,589) 50.9 (1,797) 42.3 (1,635) SL (dfm) 41.7 (1,472) 41.7 (1,472) 42.4 (1,497)		,		337 × 1,147 × 366		337 × 1.1	47 × 366		
Stross Weight (Gross Mass) kg 17 17 Sound Pressure Level H/M/L/SL dB(A) 43/39/34/31 42/38/33/30 45/41/36/33 44/40/35/3 Sound Pressure Level dB 59 58 60 59 Outdoor Unit RX50G2V1B9 RX60G2V1B9 RX60G2V1B9 RX60G2V1B9 Casing Color Ivory White Ivory White Ivory White Ivory White Compressor Model 2YC36BXD 2YC36BXD 2YC36BXD Compressor Model 2YC36BXD 1/100 1/100 Refrigerant Type FVE50K FVC50K 0.65 Oll Charge L 0.65 0.65 0.65 Refrigerant Type R-410A R-410A R-410A Refrigerant SL (dm) 43.9 (1.727) 45.0 (1.589) 50.9 (1.797) 46.3 (1.635) Airflow Rate H m ⁹ min 48.9 (1.727) 45.0 (1.589) 50.9 (1.797) 42.4 (1.497) Fan Type Propeller	0			,		,			
Sound Bit M Bit M <th< td=""><td>0 ()</td><td>(Gross Mass)</td><td>-</td><td>1</td><td>7</td><td>1</td><td>7</td></th<>	0 ()	(Gross Mass)	-	1	7	1	7		
Duttoor Unit RX50G2V1B9 RX60G2V1B9 Casing Color Ivory White Ivory White Ivory White Compressor Type Hermetically Sealed Swing Type Hermetically Sealed Swing Type Compressor Model 2YC36BXD 2YC38BXD Motor Output W 1,100 1,100 Refrigerant Type FVC50K FVC50K Charge L 0.65 0.65 Type R-410A R-410A Refrigerant Type R4410A R4410A Charge kg 1.50 1.50 Airflow Rate H m%rmin 48.9 (1,727) 45.0 (1,589) 50.9 (1,797) 42.3 (1,635) Fan Type Propeller Propeller Propeller 53 Running Current (Rated) A 7.04 - 6.75 - 6.45 7.23 - 6.94 - 6.64 9.01 - 8.62 - 8.23 9.19 - 8.80 - 8. Power Consumption (Rated) W 1.516 - 1.516 1 1.564 - 1.564 - 1.564 - 1.950 1.995 - 1.995 - 1.995 - 1.995 - 1.995 - 1.995 - 1.995 - 1.995 - 1.995 - 1.995 - 1.995 - 1.995 - 1.995 - 1	Pressure	H/M/L/SL		43 / 39 / 34 / 31	42 / 38 / 33 / 30	45 / 41 / 36 / 33	44 / 40 / 35 / 32		
Casing Color Ivory White Ivory White Ivory White Compressor Type Hermetically Sealed Swing Type Hermetically Sealed Swing Type Compressor Model 2YC36BXD 2YC36BXD Motor Output W 1,100 1,100 Refrigerant Type FVC50K FVC50K Charge L 0.65 0.65 Refrigerant Type R-410A R-410A Airflow Rate H m ⁹ /min 48.9 (1,727) 45.0 (1,589) 50.9 (1,797) 46.3 (1,635) Airflow Rate H m ⁹ /min 48.9 (1,727) 45.0 (1,589) 50.9 (1,797) 46.3 (1,635) Fan SL (cfm) 41.7 (1,472) 41.7 (1,472) 42.4 (1,497) 42.4 (1,497) Fan Type Propeller Propeller S3 53 53 Running Current (Rated) A 7.04 - 6.75 - 6.45 7.23 - 6.94 - 6.64 9.01 - 8.62 - 8.23 9.19 - 8.80 - 8. Power Consumption (Rated) W 1,516 - 1,516 1,564 - 1,564	Sound Power	_evel	dB	59	58	60	59		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Outdoor Unit			RX50G2V1B9		RX60G	2V1B9		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$				Ivory	White				
Model 2YC36BXD 2YC36BXD Motor Output W 1,100 1,100 Refrigerant Dil Type FVC50K FVC50K Charge L 0.65 0.65 Refrigerant Dil Type R-410A R-410A Arflow Rate H m ⁹ /min 48.9 (1.727) 45.0 (1.589) 50.9 (1.797) Airflow Rate H m ⁹ /min 48.9 (1.727) 45.0 (1.589) 50.9 (1.797) 46.3 (1.635) Airflow Rate H m ⁹ /min 48.9 (1.727) 45.0 (1.589) 50.9 (1.797) 46.3 (1.635) and Type Propeller Propeller Propeller Propeller anning Current (Rated) A 7.04 - 6.75 - 6.45 7.23 - 6.94 - 6.64 9.01 - 8.62 - 8.23 9.19 - 8.80 - 8.7 Power Consumption (Rated) W 1,516 - 1,516 1,564 - 1,564 1,950 - 1,950 1,995 - 1,950 - 1 Power Factor % 97.9 - 97.6 - 97.9 98.3 - 98.0 - 98.1 98.4 - 98.4 - 98.7 98.7 - 98.6 - 96.5 Starting Current A		Type		• /		,			
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Compressor					,			
Type FVC50K FVC50K Charge L 0.65 0.65 Refrigerant Type R-410A R-410A Charge kg 1.50 1.50 Airflow Rate H m ⁹ /min 48.9 (1,727) 45.0 (1,589) 50.9 (1,797) 46.3 (1,635) Airflow Rate H m ⁹ /min 48.9 (1,727) 45.0 (1,589) 50.9 (1,797) 46.3 (1,635) Airflow Rate H m ⁹ /min 48.9 (1,727) 45.0 (1,589) 50.9 (1,797) 46.3 (1,635) Airflow Rate H m ⁹ /min 48.9 (1,727) 45.0 (1,589) 50.9 (1,797) 46.3 (1,635) Gaussian (cfm) 41.7 (1,472) 41.7 (1,472) 42.4 (1,497) 42.4 (1,497) =an Type Propeller Propeller Propeller Propeller =an Motor Output W 1,516 - 1,516 1,564 - 1,564 1,950 - 1,950 1,995 - 1,995 - 1 Power Factor % 97.9 - 97.6 - 97.9 98.3 - 98.0 - 98.1 98.4 - 98.4 - 98.7 - 98.6 - 96 Sta	Compressed		W						
Only Only Drage L 0.65 0.65 Refrigerant Type R-410A R-410A R-410A Airflow Rate H m%/min (cfm) 48.9 (1,727) 45.0 (1,589) 50.9 (1,797) 46.3 (1,635) Airflow Rate H m%/min (cfm) 48.9 (1,727) 45.0 (1,589) 50.9 (1,797) 46.3 (1,635) Airflow Rate H m%/min (cfm) 48.9 (1,727) 45.0 (1,589) 50.9 (1,797) 46.3 (1,635) airflow Rate H m%/min (cfm) 48.9 (1,727) 45.0 (1,589) 50.9 (1,797) 46.3 (1,635) airflow Rate H m%/min (cfm) 48.9 (1,727) 45.0 (1,589) 50.9 (1,797) 42.4 (1,497) airflow Rate H m%/min (cfm) 48.9 (1,727) 41.7 (1,472) 42.4 (1,497) 42.4 (1,497) airflow Rate Type Propeller Propeller Propeller Propeller Propeller aunning Current (Rated) A 7.04 - 6.75 - 6.45 7.23 - 6.94 - 6.64 9.01 - 8.62 - 8.23 9.19 - 9.80 - 9.5 Power Factor<	Refrigerant		e FVC50K			,			
Type R-410A R-410A Charge kg 1.50 1.50 Airflow Rate H m*/min 48.9 (1,727) 45.0 (1,589) 50.9 (1,797) 46.3 (1,635) SL (cfm) 41.7 (1,472) 41.7 (1,472) 42.4 (1,497) 42.4 (1,497) Fan Type Propeller Propeller Propeller Motor Output W 53 53 Running Current (Rated) A 7.04 - 6.75 - 6.45 7.23 - 6.94 - 6.64 9.01 - 8.62 - 8.23 9.19 - 8.80 - 8. Power Consumption (Rated) W 1,516 - 1,516 1,564 - 1,564 1,950 - 1,950 - 1,950 1,995 - 1,995 - 1 Power Factor % 97.9 - 97.6 - 97.9 98.3 - 98.0 - 98.1 98.4 - 98.7 98.7 - 98.6 - 96 Starting Current A 7.4 9.4 9.4 Dimensions (H × W × D) mm 735 × 825 × 300 735 × 825 × 300 735 × 825 × 300 Packaged Dimensions (H × W × D) mm 797 × 992 × 390 797 × 992 × 390 797 × 992 × 390 797 × 992 × 390 797 × 992 × 390									
Herrigerant Charge kg 1.50 1.50 Airflow Rate H m³/min SL (cfm) 48.9 (1,727) 45.0 (1,589) 50.9 (1,797) 46.3 (1,635) Fan Type 41.7 (1,472) 41.7 (1,472) 42.4 (1,497) 42.4 (1,497) Fan Type Propeller Propeller Propeller 53 Running Current (Rated) A 7.04 - 6.75 - 6.45 7.23 - 6.94 - 6.64 9.01 - 8.62 - 8.23 9.19 - 8.80 - 8. Power Consumption (Rated) W 1,516 - 1,516 1,564 - 1,564 1,950 - 1,950 - 1,950 1,995 - 1,995 - 1 Power Factor % 97.9 - 97.6 - 97.9 98.3 - 98.0 - 98.1 98.4 - 98.4 - 98.7 98.7 - 98.6 - 98 Starting Current A 7.4 94 94 Dimensions (H × W × D) mm 735 × 825 × 300 735 × 825 × 300 735 × 825 × 300 Packaged Dimensions (H × W × D) mm 797 × 992 × 390 797 × 992 × 390 797 × 992 × 390 797 × 992 × 390 Weight (Mass) kg 47 47 47 47		-							
Airflow Rate H m*/min 48.9 (1,727) 45.0 (1,589) 50.9 (1,797) 46.3 (1,635) Airflow Rate K Cfm 41.7 (1,472) 41.7 (1,472) 42.4 (1,497) 42.4 (1,497) Fan Type Propeller Propeller Propeller S3 Running Current (Rated) A 7.04 - 6.75 - 6.45 7.23 - 6.94 - 6.64 9.01 - 8.62 - 8.23 9.19 - 8.80 - 8. Power Consumption (Rated) W 1,516 - 1,516 1,564 - 1,564 1,950 - 1,950 - 1,950 1,995 - 1,995 - 1 Power Factor % 97.9 - 97.6 - 97.9 98.3 - 98.0 - 98.1 98.4 - 98.4 - 98.7 98.7 - 98.6 - 96 Starting Current A 7.4 9.4 9.4 9.4 Dimensions (H × W × D) mm 735 × 825 × 300 735 × 825 × 300 735 × 825 × 300 Packaged Dimensions (H × W × D) mm 797 × 992 × 390 797 × 992 × 390 797 × 992 × 390 797 × 992 × 390 Weight (Mass) kg 52 52 52 52 52 Sound Pressure H / SL dB(A)	Refrigerant		ka						
Alrilow Rate SL (cfm) 41.7 (1,472) 41.7 (1,472) 42.4 (1,497) 42.4 (1,497) Fan Type Propeller Propeller Propeller Propeller Running Current (Rated) A 7.04 - 6.75 - 6.45 7.23 - 6.94 - 6.64 9.01 - 8.62 - 8.23 9.19 - 8.80 - 8. Power Consumption (Rated) W 1,516 - 1,516 1,564 - 1,564 1,950 - 1,950 - 1,950 1,995 - 1,995 - 1 Power Factor % 97.9 - 97.6 - 97.9 98.3 - 98.0 - 98.1 98.4 - 98.4 - 98.7 98.7 - 98.6 - 98 Starting Current A 7.4 9.4 9.4 9.4 9.4 Dimensions (H × W × D) mm 735 × 825 × 300 735 × 825 × 300 735 × 825 × 300 Packaged Dimensions (H × W × D) mm 797 × 992 × 390 797 × 992 × 390 797 × 992 × 390 9797 × 992 × 390 9797 × 992 × 390 9797 × 992 × 390 9797 × 992 × 390 49 / 46 49 / 46 49 / 46 49 / 46 49 / 46 49 / 46 49 / 46 49 / 46 49 / 46 49 / 46 49 / 46 49 / 46 49 / 46 49 / 46 49		8							
Type Propeller Propeller Motor Output W 53 53 Running Current (Rated) A 7.04 - 6.75 - 6.45 7.23 - 6.94 - 6.64 9.01 - 8.62 - 8.23 9.19 - 8.80 - 8. Power Consumption (Rated) W 1,516 - 1,516 1,564 - 1,564 1,950 - 1,950 1,995 - 1,995 - 1 Power Factor % 97.9 - 97.6 - 97.9 98.3 - 98.0 - 98.1 98.4 - 98.4 - 98.7 98.7 - 98.6 - 96 Starting Current A 7.4 9.4 9.4 9.4 9.4 Dimensions (H × W × D) mm 735 × 825 × 300 735 × 825 × 300 735 × 825 × 300 977 × 992 × 390 Weight (Mass) 797 × 992 × 390 797 × 992 × 390 797 × 992 × 390 797 × 992 × 390 97	Airflow Rate								
Fan Motor Output W 53 53 Running Current (Rated) A 7.04 - 6.75 - 6.45 7.23 - 6.94 - 6.64 9.01 - 8.62 - 8.23 9.19 - 8.80 - 8. Power Consumption (Rated) W 1,516 - 1,516 1,564 - 1,564 1,950 - 1,950 - 1,950 1,995 - 1,995 - 1 Power Factor % 97.9 - 97.6 - 97.9 98.3 - 98.0 - 98.1 98.4 - 98.4 - 98.7 98.7 - 98.6 - 95 Starting Current A 7.4 9.4 9.4 Dimensions (H × W × D) mm 735 × 825 × 300 735 × 825 × 300 735 × 825 × 300 Packaged Dimensions (H × W × D) mm 797 × 992 × 390 797 × 992 × 390 797 × 992 × 390 Weight (Mass) kg 47 47 47 Gross Weight (Gross Mass) kg 52 52 Sound H / SL dB(A) 47/44 48/45 49/46 49/46 Sound Pressure H dB 62 64 62 62			·····,				() /		
Running Current (Rated) A 7.04 - 6.75 - 6.45 7.23 - 6.94 - 6.64 9.01 - 8.62 - 8.23 9.19 - 8.80 - 8. Power Consumption (Rated) W 1,516 - 1,516 1,564 - 1,564 1,950 - 1,950 - 1,950 1,995 - 1,995 - 1 Power Factor % 97.9 - 97.6 - 97.9 98.3 - 98.0 - 98.1 98.4 - 98.4 - 98.7 98.7 - 98.6 - 98 Starting Current A 7.4 9.4 9.4 Dimensions (H × W × D) mm 735 × 825 × 300 735 × 825 × 300 735 × 825 × 300 Packaged Dimensions (H × W × D) mm 797 × 992 × 390 797 × 992 × 390 797 × 992 × 390 Weight (Mass) kg 47 47 47 Gross Weight (Gross Mass) kg 52 52 Sound H / SL dB(A) 47/44 48/45 49/46 49/46 Gross Weight (Gross Mass) kg 52 52 52 52 52 52 52 52 52 52 52 52 52 52 52 52 52 52 52 <td< td=""><td>Fan</td><td></td><td>\//</td><td></td><td></td><td></td><td></td></td<>	Fan		\//						
Power Consumption (Rated) W 1,516 - 1,516 1,564 - 1,564 1,950 - 1,950 1,995 - 1,995 - 1 Power Factor % 97.9 - 97.6 - 97.9 98.3 - 98.0 - 98.1 98.4 - 98.4 - 98.7 98.7 - 98.6 - 98 Starting Current A 7.4 9.4 Dimensions (H × W × D) mm 735 × 825 × 300 735 × 825 × 300 Packaged Dimensions (H × W × D) mm 797 × 992 × 390 797 × 992 × 390 Weight (Mass) kg 47 47 Gross Weight (Gross Mass) kg 52 52 Sound H / SL dB(A) 47/44 48 / 45 49 / 46 49 / 46 Sound Power H dB 62 64 62 62 62	Bunning Curre								
Source Factor % 97.9 - 97.6 - 97.9 98.3 - 98.0 - 98.1 98.4 - 98.7 98.7 - 98.6 - 98 Starting Current A 7.4 9.4 Dimensions (H × W × D) mm 735 × 825 × 300 735 × 825 × 300 Packaged Dimensions (H × W × D) mm 797 × 992 × 390 797 × 992 × 390 Veight (Mass) kg 47 47 Gross Weight (Gross Mass) kg 52 52 Sound H / SL dB(A) 47 / 44 48 / 45 49 / 46 49 / 46 Sound Power H dB 62 64 62 62 62	0	()							
A 7.4 9.4 Dimensions (H × W × D) mm 735 × 825 × 300 735 × 825 × 300 Packaged Dimensions (H × W × D) mm 797 × 992 × 390 797 × 992 × 390 Packaged Dimensions (H × W × D) mm 797 × 992 × 390 797 × 992 × 390 Weight (Mass) kg 47 47 Gross Weight (Gross Mass) kg 52 52 Sound H / SL dB(A) 47 / 44 48 / 45 49 / 46 49 / 46 Sound Power H dB 62 62 62 62				, , ,					
Dimensions (H × W × D) mm 735 × 825 × 300 735 × 825 × 300 Packaged Dimensions (H × W × D) mm 797 × 992 × 390 797 × 992 × 390 Veight (Mass) kg 47 47 Gross Weight (Gross Mass) kg 52 52 Sound H / SL dB(A) 47 / 44 48 / 45 49 / 46 49 / 46 Sound Power H dB 62 64 62 62		nt							
Packaged Dimensions (H × W × D) mm 797 × 992 × 390 797 × 992 × 390 Weight (Mass) kg 47 47 Gross Weight (Gross Mass) kg 52 52 Sound Pressure Level H / SL dB(A) 47 / 44 48 / 45 49 / 46 49 / 46 Sound Power H dB 63 64 63 62 62									
Weight (Mass) kg 47 47 Gross Weight (Gross Mass) kg 52 52 Sound Pressure evel H/SL dB(A) 47/44 48/45 49/46 49/46 Sound Power H dB 63 64 63 62 63									
Gross Weight (Gross Mass) kg 52 52 Sound Pressure evel H/SL dB(A) 47/44 48/45 49/46 49/46 Sound Power H dB 62 64 62 62		ensions ($H \times W \times D$)							
Sound Pressure evel H/SL dB(A) 47/44 48/45 49/46 49/46 Sound Power H dB 62 64 62 62									
Pressure Level H / SL dB(A) 47 / 44 48 / 45 49 / 46 49 / 46 Sound Power H dB 62 64 63 63 63		Gross Mass)	kg	5	2	5	2		
	Pressure Level	H/SL	dB(A)	47 / 44	48 / 45	49 / 46	49 / 46		
Level	Level	Н	dB	63	64	63	63		
Drawing No. C: 3D080645 C: 3D080646	Jrawing No.			C: 3D0	80645	C: 3D0	180646		

Note:

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

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

		Indoor Unit		FTX71GV1B			
$ \begin{array}{ c c c c c } \hline \hline$	Model	I Outdoor Unit					
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				8			
Laming Current Rated Kalm 0,100 (1,800 - (.310) C/000 (1,800 - 8,70) Min - MaxJ W 2,350 (570 - 3.200) 2,850 (520 - 3.800) Versor Factor % 9.89 - 9.82 - 9.83 9.91 - 90.0 - 90.3 CPF Roted WW 3.02 (4.04 - 2.66) 3.22 (4.42 - 2.67) Min - MaxJ mm 0.15 9 3.22 (4.42 - 2.67) Min - MaxJ mm 0.15 9 3.22 (4.42 - 2.67) Min - MaxJ mm 0.15 9 3.22 (4.42 - 2.67) Min - MaxJ mm 0.16 0 3.22 (4.42 - 2.67) Min - MaxJ mm 0.16 0 3.22 (4.42 - 2.67) Min - MaxJ mm 0.16 0 3.22 (4.42 - 2.67) Min - MaxJ mm 0.10 mm 6.16 0 Min - MaxJ mm 3.2 3.2 3.2 Min - MaxJ mm 3.0 3.2 3.2 Min - MaxJ mm 1.0 1.0 3.2 Min - MaxJ Min - MaxJ 1.0 1.0 1.0 Max - MaxJ	Canacity Bate	4					
Laming Current Rated Kalm 0,100 (1,800 - (.310) C/000 (1,800 - 8,70) Min - MaxJ W 2,350 (570 - 3.200) 2,850 (520 - 3.800) Versor Factor % 9.89 - 9.82 - 9.83 9.91 - 90.0 - 90.3 CPF Roted WW 3.02 (4.04 - 2.66) 3.22 (4.42 - 2.67) Min - MaxJ mm 0.15 9 3.22 (4.42 - 2.67) Min - MaxJ mm 0.15 9 3.22 (4.42 - 2.67) Min - MaxJ mm 0.15 9 3.22 (4.42 - 2.67) Min - MaxJ mm 0.16 0 3.22 (4.42 - 2.67) Min - MaxJ mm 0.16 0 3.22 (4.42 - 2.67) Min - MaxJ mm 0.16 0 3.22 (4.42 - 2.67) Min - MaxJ mm 0.10 mm 6.16 0 Min - MaxJ mm 3.2 3.2 3.2 Min - MaxJ mm 3.0 3.2 3.2 Min - MaxJ mm 1.0 1.0 3.2 Min - MaxJ Min - MaxJ 1.0 1.0 1.0 Max - MaxJ	(Min. ~ Max.)	_					
Water Consumption Patied W $2.50 (500 - 3.20)$ $2.550 (500 - 3.80)$ ower Factor % 0.63 - 9.82 - 98.0 0.90 - 3.22 (4.2 - 2.67) ower Factor % 0.63 - 9.82 - 98.0 0.91 - 9.90 - 30.3 ower Factor % 0.61 - 9.82 - 98.0 0.91 - 9.90 - 30.3 ower Factor 0.61 - 9 3.22 (4.2 - 2.67) 0.91 - 9.90 - 30.3 ower Factor 0.61 - 9 0.82 (4.2 - 2.67) 0.91 - 9.90 - 30.3 ower Factor 0.61 - 9 0.92 (4.2 - 2.67) 0.91 - 9.91 ower Factor m 0.10 - 9.92 0.91 - 9.92 ower Factor m 0.10 - 9.92 0.92 - 9.92 ower Factor m 0.00 - 9.92 0.92 - 9.92 ower Factor m 0.00 - 9.92 0.92 - 9.92 ower Factor m 1.10 - 10.92 - 9.91 0.92 - 9.92 ower Factor m 1.92 - 9.91 0.92 - 9.91 ower Factor % 9.74 - 97.8 - 98.7 97.4 - 97.8 - 98.7 ower Factor % 9.74 - 97.8 - 98.7 97.4 - 97.8 - 98.7							
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			A	10.8 - 10.4 - 9.9	11.7 - 11.2 - 10.7		
Wave Fatar % 98.9 - 98.2 - 96.9 99.1 - 99.0 - 99.3 Min - MaxJ WW 3.02 (4.04 - 2.66) 3.22 (4.2 - 2.67) Gas mm 0.6.4	Power Consur (Min ~ Max)	nption Rated	w	2,350 (570 ~ 3,200)	2,550 (520 ~ 3,820)		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	()		%	98 9 - 98 2 - 98 9	99.1 - 99.0 - 99.3		
Mr Max J Wirk Soc (kV = 2.60) Soc (kV = 2.67) Gas mm 0.6.4 0.6.4 Cas mm 0.15.9 0.0.0 Cas mm 0.15.9 0.0.0 Soc (kV = 2.60) Both Lipid and Gas Ppes 0.0 Soc (kV = 2.60) Both Lipid and Gas Ppes 0.0 Soc (kV = 2.60) Both Lipid and Gas Ppes 0.0 Soc (kV = 2.60) m 0.0 0.0 Soc (kV = 2.60) m 0.0 0.0 Soc (kV = 2.60) m 0.0 0.0 Soc (kV = 2.60) More Soc (kV = 2.60) 0.0 0.0 Soc (kV = 2.60) Soc (kV = 2.60) 0.0 0.0 0.0 Soc (kV = 2.60) Soc (kV = 2.60) 0.0 0.0 0.0 Soc (kV = 2.60) More Soc (kV = 2.60) 0.0 0.0 0.0 Soc (kV = 2.60) More Soc (kV = 2.60) 0.0 0.0 0.0 Soc (kV = 2.60) More Soc (kV = 2.60) 0.0 0.0 0.0 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>							
$ \begin{array}{ c c c c c } \hline left in the second secon$	(Min. ~ Max.)		VV/VV	3.02 (4.04 ~ 2.66)	3.22 (4.42 ~ 2.67)		
Dama Dist Dist Some close Both Liquid and Gas Pipes Kox. Instrunt Pioring Longh m Sox. Instruct Pioring m Instruct Pioring m Sox. Instruct Pioring m Instruct Pioring Try State Try State State State Try State State State Try State State State State State	Disting	Liquid	mm	φ6	.4		
	Connections	Gas	mm	φ 15	5.9		
Base, Internal Piping Length m 30 Dargoless m 0 Dargoless m 0 Deriginant 20 Deriginant 9m Deriginant 20 Sec. Incent M Englith Office FTX7GVIB FTX7GVIB FTX7GVIB Ford Pland Color FTX7GVIB Mill m ⁹ 14.46 (516) 15.9 (557). L (cm) 11.6 (410) 14.3 (505) State Discover Advisor 43 Motor Output W 43 Motor Output W 43 Motor Output W 43 Stepse Stepse, Cuete, Auto Venet Consummer (Flatd) A 0.21 - 0.20 - 0.19 Output W 45 - 45 - 45 60 - 60 - 60 Stepse Stepse, Cuete, Auto 97.4 - 97.8 - 98.7 97.4 - 96.6 - 96.2 Graver Consummers (FL W XD) mm 230 × 1, 147 × 336 230 × 1, 060 × 228 Graver Construit macover Construit Motor Cuete		Drain	mm				
dex. Internal Height Difference m 20 morgund Additional Charge of legiogrant g/m 30 notor Unit FIX71GV18 20 information and Charge of legiogrant g/m 20 information and the second and	Heat Insulation			•	•		
Drages m 10 etrogrand g/m 20 before m 20 ront Panel Clarge of before g/m 20 ront Panel Clar TX.4 (614) 19.7 (606) M 17.4 (614) 19.7 (606) More Cuby 11.6 (10) 14.3 (505) Status 11.6 (10) 14.3 (505) Status 10.6 (374) 12.7 (448) Type Cross Pow Fan 12.7 (448) With Web 54856, Culet, Auto 12.7 (448) were Consumption Cantrol With Web 54856, Culet, Auto were Consumption (Pated) A 0.21 · 0.20 · 0.19 were Consumption (Pated) M 0.28 · 0.27 · 0.26 were Consumption (Pated) With Web 10.6 (574) 0.28 · 0.27 · 0.26 were Consumption (Pated) M 4.5 · 4.5 · 4.5 60 · 0.6 · 0.6 were Consumption (Pated) With Web 10.6 (57.238 10.6 (57.238) were Consumption (Pated) Wath Web 1.1 (7 × 366 10.6 (2 · 0.27 · 0.28) we			m				
mount of Additional Charge of Heingeand g/m 20 ndoor Unit FTX71GV1B nodor Unit FTX71GV1B inform Paral Color White III Montonia IIII Profile IIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		Height Difference	m				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Chargeless		m	10)		
Index Unit FTX71GV18 rort Planel Color While inflow Rate H 17.4 (614) 19.7 (966) inflow Rate H months 116.6 (610) 16.9 (597) inflow Rate H months 116.6 (610) 16.9 (597) inflow Coluput W	Amount of Add	litional Charge of	g/m	20)		
H Mile Mile inflow Rate H mile 17.4 (614) 19.7 (666) inflow Rate M mile 14.6 (616) 16.9 (597) inflow Rate M mile 14.6 (616) 16.9 (597) inflow Rate Type 0.6 (374) 14.3 (526) 14.3 (526) inflow Rate Motor Output W - - inf Direction Control W - - - inf Direction Control W - - - - inf Filter - Pencouble / Washable / Millew Proof - - - infining Current (Rated) A 0.21 - 0.20 - 0.19 0.28 - 0.27 - 0.26 - were Factor % 97 - 97.8 - 98.7 97 - 4.96.6 - 96.2 - - infining Current (Rated) M 45 - 45 - 45 0.0 - 60 - - incosonapptor (Rated) M 97 - 97.8 - 98.7 97 - 97 - 96.6 - 98.2 - - - - - -				ETV71	GV1B		
H m/min 17.4 (614) 19.7 (696) urflow Rate M m/min 14.6 (516) 16.9 (697) SL 10.6 (374) 14.3 (506) 12.7 (448) Type 0.6 (374) 12.7 (448) 12.7 (448) ar Direction Control W 43 33 Speed Steps 5 Steps, Quiet, Auto 34 were Consumption (Rated) A 0.21 - 0.20 - 0.19 0.28 - 0.27 - 0.26 were Consumption (Rated) A 0.21 - 0.20 - 0.19 0.28 - 0.27 - 0.26 were Consumption (Rated) W 45 - 45 - 45 60 - 60 - 60 were Consumption (Rated) M 0.21 - 0.20 - 0.19 0.28 - 0.27 - 0.26 were Consumption (Rated) W 45 - 45 - 45 60 - 60 - 60 were Consumption (Rated) M 0.21 - 0.20 - 0.19 Morecomputer Control Immensions (H × W X D) mm 307 × 1.147 × 386 30 Weight (Mass) Kg 12 30 30 Stange Color Morecomputer Control Rx716/V189 33 33 </td <td></td> <td>blor</td> <td></td> <td></td> <td></td>		blor					
M m noise inflow Rate M n 14.6 (616) 16.9 (697) St 11.6 (410) 14.3 (605) 12.7 (448) Type Cross Flow Fan 43 Motor Output W 65 legs 43 Stope Stope 5 legs 43 ir Direction Control Filter Filter 12.7 (448) ir Direction Control Filter Removable / Washable / Midow Proof imming Current (Rated) A 0.21 - 0.20 - 0.19 0.28 - 0.27 - 0.26 Were Factor % 97.4 - 95 - 98.7 60 - 60 - 60 - 60 Were Factor % 97.4 - 95 - 98.7 00 - 60 - 60 - 60 Were Factor % 97.4 - 95 - 98.7 00 - 60 - 60 - 60 Were Factor % 97.4 - 95 - 98.7 00 - 27.6 - 28.6 - 96.2 immensions (H × W > D) mm 2803 × 1.147 - 866 96.2 imseasing (H × W > D) mm 2803 × 1.147 - 866 96.2 imseasing (H × W > D) mm 292.157 - 226 97.5	TUTIFALLELU						
Withow Retie L (cdmn) 11.6 (410) 14.3 (605) SL 10.6 (374) 12.7 (448) Type Cross Flow Fan Mator Output W 43 ir Direction Control Stepe 5 tope, Quiet, Auto ir Direction Control Right, Left, Horizontal, Downward 60 - 60.0 were Consumption (Rated) A 0.21 - 0.20 - 0.19 0.28 - 0.27 - 0.26 were Consumption (Rated) A 0.21 - 0.20 - 0.19 0.60 - 60.0 were Consumption (Rated) M 45 - 45 - 45 60 - 60.0 were Consumption (Rated) M 97.4 - 97.8 - 98.7 97.4 - 96.8 - 96.2 memorature Control Mm 290 × 1050 × 283 tadaged Dimensions (H × W × D) mm marked with Kass Kg 17 0.000 62 weight (Mass) Kg 17 0.000 62 word Weits B 63 62 62 ward weits Mg 14.6 / 42 / 37 / 34 61 / 42 / 37 / 34 61 / 62 word White Type							
SL 10.6 (374) 12.7 (448) Type Cross Flow Fan Motor Output W Speed Steps Steps Steps ir Direction Control Steps Steps Steps ir Direction Control Right Left Herizontal, Downward Midor Output W were Factor Removable / Washable / Midow Proof Steps Oza 0.27 - 0.26 were Factor % 97.4 - 97.8 - 98.7 97.4 - 96.6 - 96.2 emperature Control mm 290 × 1.050 × 238 Gataged Dimensions (H × W × D) mm were factor % 97.4 - 97.8 - 98.7 97.4 - 96.6 - 96.2 Gataged Dimensions (H × W × D) mm were factor % 97.4 - 97.8 - 98.7 97.4 - 97.8 - 96.6 - 96.2 Gataged Dimensions (H × W × D) mm management Control mm 337 × 1.47 × 366 Gataged Dimensions (H × W × D) mm Stateged Dimensions (H × W × D) mm 337 × 1.47 × 366 Gataged Dimensions (H × W × D)	Airflow Rate						
Type Cross Flow Fan an Mictor Output W Speed Steps 5 Steps, Quiet, Auto ir Direction Control Flight, Left, Horizontal, Downward Flight, Left, Horizontal, Downward ir Biter Removable / Washable / Mickew Proof Gurrent (Rated) A 0.21 - 0.20 - 0.19 0.28 - 0.27 - 0.26 Wower Consumption (Rated) W 45 - 45 - 5 60 - 60 - 60 Wower Factor % 97.4 - 97.8 - 98.7 97.4 - 96.6 - 96.2 Immensions (H × W × D) mm 202 x 1.050 × 238 238 Radkged Dimensions (H × W × D) mm 237 x 1.147 × 366 12 Weight (Kass) kg 12 238 238 Stanged Dimensions (H × W × D) mm 337 x 1.147 × 366 62 Weight (Kass) kg 17 63 62 Stange Obmensions (H × W × D) B 63 62 62 Vadoor Unit W 1,920 62 62 62 Vadoor Output W 1,920 62 62		=	- ([,])				
an Motor Output W 43 Speed Steps 5 Steps, Outet, Auto wir Direction Control Right, Left, Horizontal, Downward ir Filter Removable / Washabed, Mildew Proof Numing Current (Rated) A 0.21 - 0.20 - 0.19 0.28 - 0.27 - 0.26 Swer Foxor % 97.4 - 95.6 - 96.2 60 - 60 - 00 Swer Foxor % 97.4 - 97.8 - 98.7 97.4 - 96.6 - 96.2 Preperative Control Microcomputer Control Microcomputer Control Imensions (H × W X) mm 290 × 1.050 × 238 Togos Weight (Nass) kg 12 Sound Circless Mass) kg 17 Sound Power Level dB 63 62 Ound Power Level dB 63 62 Staing Color Propertiest Propertiest Propertiest Model 290 × 1050 × 238 290 290 Staing Color Victor Unit W 1.320 Victor Unit W 1.320 200 Infore Rege L			-				
Speed Steps S Steps S Steps is Diraction Control Right, Left, Horizontal, Downward is Filter Removable Washable / Washabele / Washable / Washabele / Washable / Washab	Fan		W				
ir Direction Control III III III III III III IIII IIII II	1 di i				F		
ir Filter Permovable / Washable / Mildew Proof turning Current (Rated) A 0.21 - 0.20 - 0.19 0.28 - 0.27 - 0.26 ower Consumption (Rated) W 45 - 45 - 45 60 - 60 - 60 ower Consumption (Rated) W 45 - 45 - 45 60 - 60 - 60 ower Consumption (Rated) W 45 - 45 - 45 60 - 60 - 60 ower Consumption (Rated) W 45 - 45 - 45 60 - 60 - 60 ower Consumption (Rated) W 97.4 - 97.6 - 96.2 97.4 - 96.6 - 96.2 immersions (H × W × D) mm 280 × 1.080 × 238 280 okaged Dimensions (H × W × D) mm 337 × 1.147 × 366 12 ocalcaged Dimensions (H × W × D) mm 337 × 1.147 × 366 62 ound Pressure H/ M / L / SL dB(A) 46 / 42 / 37 / 34 62 ound Prover Level dB 63 62 12 ound Prover Level MB 63 12 12 ound Prover Level MB 63 12 12 ound Prover Level MB 63 12<	Air Direction C		Oteps				
Juming Current (Rated) A 0.21 - 0.20 - 0.19 0.28 - 0.27 - 0.26 Jower Consumption (Rated) W 45 - 45 - 45 60 - 600 - 600 Jower Factor % 97.4 - 97.8 - 98.7 97.4 - 96.6 - 96.2 emporature Control Microcomputer Control Microcomputer Control Jinerations (H × W × D) mm 290 × 1.050 × 238 vackaged Dimensions (H × W × D) mm 337 × 1.147 × 366 Signes Weight (Gross Mass) kg 12 Signes Weight (Gross Mass) kg 17 Sound H/ M / L / SL dB(A) 46 / 42 / 37 / 34 Signe Color Nory White 62 20 Signe Color Nory White 20 × 0.050 × 0.050 × 0.050 62 Vatdoor Unit V 1920 1920 1920 Variage L 0.75 0.75 1920 1920 Variage Kg 2.30 46.0 (1.624) 46.0 (1.624) 46.0 (1.624) Variage kg 2.30 46.0 (1.624) 46.0 (1.624) 146.0 (1.624) 146.0		Onition					
Ower Consumption (Rated) W 45 - 45 - 45 60 - 60 - 60 Ower Factor % 97.4 - 97.8 - 98.7 97.4 - 96.6 - 96.2 Imperature Control Microcomputer Control 97.4 - 96.6 - 96.2 Immersions (H × W × D) mm 280 × 1.147 × 366 Velight (Mass) kg 12 ackaged Dimensions (H × W × D) kg 17 ound db(A / 42 / 37 / 34) 46 / 42 / 37 / 34 Velogit (Mass) kg 17 ound Pressure H/M/L/SL dB(A) 46 / 42 / 37 / 34 Velogit (Mass) kg 62 02 Valctoor Unit RX710V189 82 02 Datator Unit Prope RX710V189 82 Ador Output W 19.20 19.20 Moder Output W 19.20 19.20 Moder Output W 19.20 19.20 Moder Output W 19.20 14.04 Stating Color Charge L 0.75 Type Propeller <		nt (Rated)	Δ				
Owner Factor % 97.4 - 97.8 - 98.7 97.4 - 96.6 - 96.2 imperature Control Microcomputer Control Microcomputer Control immensions (H × W × D) mm 290 × 1.050 × 238 reckaged Dimensions (H × W × D) mm 337 × 1.147 × 366 veloght (Mass) kg 12 ross Weight (Cross Mass) kg 17 sound Power Level dB 63 62 butdoor Unit BE 63 62 butdoor Unit Weight (Mass) Kg 62 butdoor Output W 1,920 1920 fefrigerant Type Fype Charge 2.30 fefrigerant Type Charge Kg 2.30 ferriderant Type Propeller Propeller <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>							
Emperature Control Microcomputer Control Ximerations (H × W × D) mm 290 × 1.050 × 238 ackaged Dimensions (H × W × D) mm 337 × 1.147 × 366 Veight (Mass) kg 12 ound ressure H/M/L/SL dB(A) 46/42/37/34 46/42/37/34 Sound ressure H/M/L/SL dB(A) 46/42/37/34 46/42/37/34 Validoor Unit dB(A) 46/42/37/34 46/42/37/34 Validoor Unit BX71GV1B9 62 Addod 2VC638XD 62 Validoor Unit Prope Hermetically Sealed Swing Type Compressor Model 2VC638XD Model 2VC638XD 2VC638XD Motor Output W 1,920 Inflorence RV10A Charge Motor Output W 63 Validoor Unit SL (dm) Ads.0 (1,624) Type Charge Type RV10A 66 Motor Output W 66 Muning Current (Rated)							
Immersions (H × W × D) mm 290 × 1,050 × 238 tackaged Dimensions (H × W × D) mm 337 × 1,147 × 366 tackaged Dimensions (H × W × D) mm 337 × 1,147 × 366 tarkaged Dimensions (H × W × D) kg 12 tross Weight (Gross Mass) kg 17 toross Weight (Gross Mass) kg 17 ound Power Level dB 63 62 butdoor Unit Novy White 62 butdoor Unit Novy White 62 butdoor Unit Novy White 62 compresort Model 2YC638XD 2YC638XD Model 1,920 1,920 Verificiariant Type FVC50K 7 Nifer Orbuput W 1,920 1,820 Verificiariant Type R-410A 1,824 Charge kg 2.30 46.0 (1,624) telrigerant Type R-410A 1,824 SL (cfm) 46.0 (1,624) 46.0 (1		Control	70				
			mm				
Veight (Mass) kg 12 iaross Weight (Gross Mass) kg 17 ound ressure vel H / M / L / SL dB(A) 46 / 42 / 37 / 34 46 / 42 / 37 / 34 owned ressure vel dB 63 62 butdoor Unit Zaing Color RX71GV1B9 20 butdoor Unit Zaing Color RX71GV1B9 20 bound Power Level dB 63 62 butdoor Unit Zaing Color RX71GV1B9 20 bound Power Level dB 63 62 butdoor Unit Zaing Color Nory White Herrigerant File 62 Motor Output W 1,920 192 Velf triggerant Type File 67 Type R-410A 1,920 192 Velf triggerant Type R-410A 192 Charge kg 2.30 46.0 (1,624) Wor Output W 66 11.42 - 10.93 - 10.44 Vower Consumption (Rated) A 10.59 - 10.20 - 9.71 11.42 - 10.93 - 10.44							
arcss Weight (Gross Mass) kg 17 ound ressure evel H / M / L / SL dB(A) 46 / 42 / 37 / 34 46 / 42 / 37 / 34 Sound Power Level dB 63 62 Dutdoor Unit BX BX 62 Dutdoor Unit RX71GV1B9 62 Sound Power Level dB 63 62 Outdoor Unit Weight (Gross Mass) More Coupt Nory White Sound Power Level dB 63 62 Dutdoor Unit Weight (Gross Mass) 62 62 Sound Power Level dB 63 62 Sound Power Level More Coupt W 1,920 More Output W 1,920 1,920 FVCS0K Charge L 0.75 Charge Kg 2,30 46.0 (1,624) inflow Rate H m ⁹ /min 54.5 (1,924) 46.0 (1,624) inflow Rate H m ⁹ /min 54.5 (1,924) 46.0 (1,624) inflow Rate H <td< td=""><td>J.</td><td></td><td></td><td></td><td></td></td<>	J.						
Sound H / M / L / SL dB(A) 46 / 42 / 37 / 34 46 / 42 / 37 / 34 Pressure evel dB 63 62 Jound Power Level MB 63 62 Jound Power Level MB 70 70 Jound Power Level MB 70 70 Jound Power Level MB 70 70 70 Jound Power Level W 1.920 70 70 Mole Type FVC50K 70 70 Attrigge I L 0.75 70 70 Attrigge I L 0.75 70 70 Attrigge I L 0.75 70 70 Attrigge I Type Rx410A 70 70 Motor Output W <td></td> <td>(Gross Mass)</td> <td>-</td> <td></td> <td></td>		(Gross Mass)	-				
Sound Power LeveldB6362Dutdoor UnitRX71GV1B9Sasing ColorIvory WhiteSong ColorIvory WhiteSompressorTypeHermetically Sealed Swing TypeModel2YC638XDModel1,920HeringerantTypeOffargeLChargeLChargekgChargekgChargekgType66Motor OutputWType66Numing Current (Rated)ANuming Current (Rated)ANower Factor%Sower Factor%Nower Satiffy Closs Mass)kgYeight (Mass)kgYeight (Mass)kgH/SLdB(A)Satiffy Closs Mass)kgH/SLdBAnno52 / 49SoundPower evelH/SLHGBSatiffy Closs Mass)kgSatiffy Closs MasskgSatiffy Closs Mass </td <td>Sound Pressure Level</td> <td>,</td> <td></td> <td></td> <td></td>	Sound Pressure Level	,					
Buildoor Unit RX1GV1B9 Aasing Color Ivpe Compressor Type Model 2VC63BXD Modor Output W All Charge Charge L Type R-410A Refrigerant Type Type R-410A Charge L Type R-410A Charge kg Charge kg Charge kg Charge kg Charge kg Motor Output W SL (cfm) SL (cfm) Attining Current (Rated) A A 10.59 - 10.20 - 9.71 Motor Output W Vower Consumption (Rated) W Versions (H × W × D) mm Tarting Current A A 700 × 900 × 925 × 390 Verght (Mass) kg Torses Weight (Gross Mass) kg Areverel H/	Sound Power Level		dB	63	62		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			42				
TypeHermetically Sealed Swing TypeCompressorModor OutputWMotor OutputW1,920VergessureTypeFVCS0KChargeL0.75RefrigerantTypeR-410AChargekg2.30inflow RateHm%minSL(cfm)46.0 (1,624)TypePropellerMotor OutputWSL(cfm)Motor OutputWSL(cfm)Motor OutputWSL(cfm)Motor OutputWSumming Current (Rated)ANower Factor%Yower Factor%Yower Sactor%Weight (Mass)kgArring CurrentAMotor OutputMStarting CurrentAMotor OutputWYower Sactor%Yower Sactor%Yower Sactor%YourentAMinensions (H × W × D)mmYourentAYourentKgYourentAYourentAYourentAYourentAYourentAYourentYourentYourentAYourentYourentYourentAYourentYourentYourentAYourentYourentYourentAYourentYourentYourentAYourentYourent <td></td> <td></td> <td></td> <td>Ivory V</td> <td>Vhite</td>				Ivory V	Vhite		
CompressorModel2YC63BXDModelModel1,920MefrigerantTypeFVC50KChargeL0.75RefrigerantTypeR-410AChargekg2.30Minin54.5 (1,924)46.0 (1,624)SL(cfm)46.0 (1,624)YpeType66Running Current (Rated)A10.59 - 10.20 - 9.71Nower Factor%98.9 - 98.3 - 98.999.1 - 99.0 - 99.4Vower Sons (H × W × D)mm770 × 900 × 320Veight (Mass)kg71Aross Weight (Gross Mass)kg79Sound Power evelHdB656565	g	Type		-)			
$\begin{tabular}{ c c c c c } \hline Motor Output & W & 1,920 \\ \hline \end{tabular} & \hline Type & FVC50K \\ \hline \end{tabular} & \hline Type & R-410A \\ \hline \end{tabular} & \hline \end$	Compressor						
TypeFVC50KAllChargeL 0.75 RefrigerantTypeR-410ATypeR-410AChargekg2.30airflow RateHm%minSL(cfm)46.0 (1,624)anType46.0 (1,624)TypeMotor OutputWCover Consumption (Rated)APower Consumption (Rated)W2,305 - 2,305Starting CurrentAA10.59 - 10.20 - 9.71Starting CurrentAA10.59 - 10.20 - 9.71Starting CurrentAPower Satur%98.9 - 98.3 - 98.999.1 - 99.0 - 2,490Starting CurrentAA11.7Dimensions (H × W × D)mm770 × 900 × 320Packaged Dimensions (H × W × D)mm900 × 925 × 390Veight (Mass)kg71SoundressureevelHdB(A)52 / 49Sound PowerevelHdB65	•			1.92	20		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Refrigerant			FVC	50K		
TypeR-410AChargekg2.30inflow RateHm%/min54.5 (1,924)Hm%/min54.5 (1,924)46.0 (1,624)SL(cfm)46.0 (1,624)46.0 (1,624)TypePropellerMotor OutputW66Nunning Current (Rated)A10.59 - 10.20 - 9.7111.42 - 10.93 - 10.44Power Consumption (Rated)W $2,305 - 2,305 - 2,305$ $2,490 - 2,490 - 2,490$ Power Factor%98.9 - 98.3 - 98.999.1 - 99.0 - 99.4Packaged Dimensions (H × W × D)mm770 × 900 × 320Packaged Dimensions (H × W × D)mm52 / 49Veight (Mass)kg71Sound Power evelHdB65	Oil		L	0.7	<i>'</i> 5		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Defrigerent	Туре	·				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	rieirigerant		kg				
WildWindWind SL (cfm) 46.0 (1,624) 46.0 (1,624) an Type Propeller Motor Output W 66 Running Current (Rated) A 10.59 - 10.20 - 9.71 11.42 - 10.93 - 10.44 Power Consumption (Rated) W 2,305 - 2,305 - 2,305 2,490 - 2,490 - 2,490 Power Factor % 98.9 - 98.3 - 98.9 99.1 - 99.0 - 99.4 Power Factor % 98.9 - 98.3 - 98.9 99.1 - 99.0 - 99.4 Starting Current A 11.7 Dimensions (H × W × D) mm 770 × 900 × 320 Packaged Dimensions (H × W × D) mm 900 × 925 × 390 Veight (Mass) kg 71 Gross Weight (Gross Mass) kg 79 Sound H/SL dB(A) 52 / 49 52 / 49 Sound Pressure evel H dB 65 65	Airflow Data		-		46.0 (1,624)		
Type Propeller Motor Output W 66 Running Current (Rated) A 10.59 - 10.20 - 9.71 11.42 - 10.93 - 10.44 Yower Consumption (Rated) W 2,305 - 2,305 2,490 - 2,490 - 2,490 Yower Factor % 98.9 - 98.3 - 98.9 99.1 - 99.0 - 99.4 Starting Current A 11.7 11.7 Dimensions (H × W × D) mm 770 × 900 × 320 24.490 Yackaged Dimensions (H × W × D) mm 900 × 925 × 390 90.1 - 99.0 - 99.4 Veight (Mass) kg 71 71 71 Sound H/ SL dB(A) 52 / 49 52 / 49 Sound Power H dB 65 65	AINOW Hate	SL		46.0 (1,624)	46.0 (1,624)		
Motor Output W 66 Running Current (Rated) A 10.59 - 10.20 - 9.71 11.42 - 10.93 - 10.44 Power Consumption (Rated) W 2,305 - 2,305 - 2,305 2,490 - 2,490 Power Factor % 98.9 - 98.3 - 98.9 99.1 - 99.0 - 99.4 Power Factor % 98.9 - 98.3 - 98.9 99.1 - 99.0 - 99.4 Starting Current A 11.7 Dimensions (H × W × D) mm 770 × 900 × 320 Packaged Dimensions (H × W × D) mm 900 × 925 × 390 Veight (Mass) kg 71 Storess Weight (Gross Mass) kg 79 Sound Pressure evel H/SL dB(A) 52 / 49 52 / 49 Sound Pressure evel H dB 65 65	Fan			Prop	eller		
Dower Consumption (Rated) W 2,305 - 2,305 - 2,305 2,490 - 2,490 Power Factor % 98.9 - 98.3 - 98.9 99.1 - 99.0 - 99.4 Starting Current A 11.7 Dimensions (H × W × D) mm 770 × 900 × 320 Packaged Dimensions (H × W × D) mm 900 × 925 × 390 Veight (Mass) kg 71 Gross Weight (Gross Mass) kg 79 Sound Power H / SL dB(A) 52 / 49 Veight (Mase) H dB 65	ıdli	Motor Output	W	66	6		
Power Factor % 98.9 - 98.3 - 98.9 99.1 - 99.0 - 99.4 Starting Current A 11.7 Dimensions (H × W × D) mm 770 × 900 × 320 Packaged Dimensions (H × W × D) mm 900 × 925 × 390 Veight (Mass) kg 71 Gross Weight (Gross Mass) kg 79 Sound Power H / SL dB(A) 52 / 49 Veight Quere 65 65	Running Curre	nt (Rated)		10.59 - 10.20 - 9.71			
A 11.7 Dimensions (H × W × D) mm 770 × 900 × 320 Packaged Dimensions (H × W × D) mm 900 × 925 × 390 Veight (Mass) kg 71 Gross Weight (Gross Mass) kg 79 Sound ressure evel H / SL dB(A) 52 / 49 52 / 49 Sound Power evel H dB 65 65	Power Consur	nption (Rated)					
Dimensions $(H \times W \times D)$ mm $770 \times 900 \times 320$ Packaged Dimensions $(H \times W \times D)$ mm $900 \times 925 \times 390$ Veight (Mass)kg 71 Aross Weight (Gross Mass)kg 79 Sound ressure evelH / SLdB(A) $52 / 49$ Sound Power evelHdB65	Power Factor		%				
Packaged Dimensions (H × W × D) mm 900 × 925 × 390 Veight (Mass) kg 71 Aross Weight (Gross Mass) kg 79 Sound ressure evel H / SL dB(A) 52 / 49 52 / 49 Sound Power evel H dB 65 65	Starting Current		A	11.7			
Veight (Mass) kg 71 Gross Weight (Gross Mass) kg 79 Sound ressure evel H/SL dB(A) 52/49 Sound Power evel H dB 65	Dimensions $(H \times W \times D)$		mm				
Arross Weight (Gross Mass) kg 79 Sound rressure evel H/SL dB(A) 52/49 52/49 Sound Power evel H dB 65 65		ensions ($H \times W \times D$)	mm	900 × 92	5 × 390		
Sound ressure evel H/SL dB(A) 52/49 Sound Power evel H dB 65	Weight (Mass)		kg				
Sound ressure evel H/SL dB(A) 52/49 52/49 Sound Power evel H dB 65 65	Gross Weight	(Gross Mass)		79)		
Sound Power evel H dB 65 65	Sound Pressure Level	H/SL		52 / 49	52 / 49		
	Sound Power Level	Н	dB				
	Drawing No.			3D080	0177		

Note:

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

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

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

	Indoor Unit		FTX50	GV1B	FTX60	GV1B	
Model			RX500		RX60G3V1B		
	Outdoor Unit	ľ	Cooling	Heating	Cooling	Heating	
		kW	5.0 (1.7 ~ 6.0)	5.8 (1.7 ~ 7.7)	6.0 (1.7 ~ 6.7)	7.0 (1.7 ~ 8.0)	
Capacity Rate (Min. ~ Max.)	d	Btu/h	17,100 (5,800 ~ 20,500)	19,800 (5,800 ~ 26,300)	20,500 (5,800 ~ 22,900)	23,900 (5,800 ~ 27,300)	
(IVIIII. ~ IVIAX.)		kcal/h	4,300 (1,460 ~ 5,160)	4,990 (1,460 ~ 6,620)	5,160 (1,460 ~ 5,760)	6,020 (1,460 ~ 6,880)	
Running Curre		А	7.2 - 6.9 - 6.6	7.4 - 7.1 - 6.8	9.2 - 8.8 - 8.4	9.4 - 9.0 - 8.6	
Power Consur	nption Rated	W	1,550 (440 ~ 2,080)	1,600 (400 ~ 2,530)	1,990 (440 ~ 2,400)	2,040 (400 ~ 2,810)	
(Min. ~ Max.)							
Power Factor		%	97.9 - 97.7 - 97.9	98.3 - 98.0 - 98.0	98.3 - 98.3 - 98.7	98.6 - 98.6 - 98.8	
COP Rated (Min. ~ Max.)		W/W	3.23 (3.86 ~ 2.88)	3.63 (4.25 ~ 3.04)	3.02 (3.86 ~ 2.79)	3.43 (4.25 ~ 2.85)	
D: :	Liquid	mm	φ 6	6.4	φ (5.4	
Piping Connections	Gas	mm	φ 1	2.7	φ1	2.7	
	Drain	mm	ф 1	8.0		8.0	
Heat Insulatior		_	Both Liquid a			nd Gas Pipes	
Max. Interunit		m	3		-	0	
	Height Difference	m	2			0	
Chargeless		m	1	0	1	0	
Amount of Ado Refrigerant	litional Charge of	g/m	2	0	2	0	
ndoor Unit			FTX50	GV1B	FTYR	GV1B	
Front Panel Co	blor		Wh			hite	
	H		14.7 (519)	16.1 (568)	16.2 (572)	17.4 (614)	
A: (1	M	m³/min	12.4 (438)	13.9 (491)	13.6 (480)	15.1 (533)	
Airflow Rate	L	(cfm)	10.3 (364)	11.5 (406)	11.4 (403)	12.7 (448)	
	SL	7	9.5 (335)	10.2 (360)	10.2 (360)	11.4 (403)	
	Туре	•	Cross F	· · · /		low Fan	
-an	Motor Output	W	4	3	4	3	
	Speed	Steps	5 Steps, C	Quiet, Auto	5 Steps, C	Quiet, Auto	
Air Direction C	ontrol		Right, Left, Horiz	ontal, Downward	Right, Left, Horiz	ontal, Downward	
Air Filter			Removable / Wash	able / Mildew Proof	Removable / Wash	able / Mildew Proof	
Running Curre	()	А	0.16 - 0.15 - 0.15	0.17 - 0.16 - 0.16	0.19 - 0.18 - 0.17	0.21 - 0.20 - 0.19	
	nption (Rated)	W	34 - 34 - 34	36 - 36 - 36	40 - 40 - 40	45 - 45 - 45	
Power Factor		%	96.6 - 98.6 - 94.4	96.3 - 97.8 - 93.8	95.7 - 96.6 - 98.0	97.4 - 97.8 - 98.7	
Temperature (Microcomp			uter Control	
Dimensions (H	/	mm	290 × 1,0		,)50 × 238	
	ensions (H \times W \times D)	mm	337 × 1,1		,	47 × 366	
Weight (Mass)		kg	1.			2	
Gross Weight	(Gross Mass)	kg	1	/	1	7	
Sound Pressure Level	H/M/L/SL	dB(A)	43 / 39 / 34 / 31	42 / 38 / 33 / 30	45 / 41 / 36 / 33	44 / 40 / 35 / 32	
Sound Power	_evel	dB	59	58	60	59	
Outdoor Unit			RX500	G3V1B	RX600	G3V1B	
Casing Color			Ivory		,	White	
_	Туре		Hermetically Sea	3 71		aled Swing Type	
Compressor	Model		2YC3		2YC3		
	Motor Output	W	1,1		,	00	
Refrigerant	Туре		FVC			250K	
Oil	Charge	L	0.0			65	
Refrigerant	Type Charge	ka				10A 50	
	H	kg m³/min	48.9 (1,727)	45.0 (1,589)	50.9 (1,797)	46.3 (1,635)	
Airflow Rate	SL	m³/min (cfm)	41.7 (1,472)	45.0 (1,589) 41.7 (1,472)	42.4 (1,497)	40.3 (1,035) 42.4 (1,497)	
	SL Type	(0)	41.7 (1,472) Prop		42.4 (1,497) Prop		
Fan	Motor Output	W	5			3	
Running Curre		A	7.04 - 6.75 - 6.45	7.23 - 6.94 - 6.64	9.01 - 8.62 - 8.23	9.19 - 8.80 - 8.41	
J.	nption (Rated)	W	1,516 - 1,516 - 1,516	1,564 - 1,564 - 1,564	1,950 - 1,950 - 1,950	1,995 - 1,995 - 1,995	
Power Factor		%	97.9 - 97.6 - 97.9	98.3 - 98.0 - 98.1	98.4 - 98.4 - 98.7	98.7 - 98.6 - 98.8	
Starting Curre	nt	A	7.			.4	
Dimensions (H	×W×D)	mm	735 × 82		735 × 82	25 × 300	
Packaged Dimensions (H × W × D) mm		797 × 992 × 390		797 × 992 × 390			
Weight (Mass) k		kg	4	7	4	7	
Gross Weight	(Gross Mass)	kg	4	9	4	9	
Sound Pressure Level	H/SL	dB(A)	47 / 44	48 / 45	49 / 46	49 / 46	
Sound Power Level	Н	dB	63	64	63	63	
Drawing No.			C: 3D0	80645	C: 3D0	080646	

Note:

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

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

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

	Indoor Unit		-	OGV1B
Model	Outdoor Unit			G4V1B
			Cooling	Heating
Capacity Rate	bd	kW	6.0 (1.7 ~ 6.7)	7.0 (1.7 ~ 8.0)
(Min. ~ Max.)	eu	Btu/h	20,500 (5,800 ~ 22,900)	23,900 (5,800 ~ 27,300)
. ,		kcal/h	5,160 (1,460 ~ 5,760)	6,020 (1,460 ~ 6,880)
Running Curre		A	9.2 - 8.8 - 8.4	9.4 - 9.0 - 8.6
Power Consur (Min. ~ Max.)	mption Rated	W	1,990 (440 ~ 2,400)	2,040 (400 ~ 2,810)
Power Factor		%	98.3 - 98.3 - 98.7	98.6 - 98.6 - 98.8
COP Rated				
(Min. ~ Max.)		W/W	3.02 (3.86 ~ 2.79)	3.43 (4.25 ~ 2.85)
Distinger	Liquid	mm	¢.	6.4
Piping Connections	Gas	mm	φ 1	2.7
	Drain	mm	φ 1	8.0
Heat Insulatio				ind Gas Pipes
	Piping Length	m		30
	Height Difference	m		20
Chargeless		m		0
	lditional Charge of	g/m	2	20
Refrigerant Indoor Unit			ETVG	OGV1B
Front Panel C	`olor		-	hite
i ioni ranel C	H		16.2 (572)	17.4 (614)
	M		13.6 (480)	15.1 (533)
Airflow Rate	L		11.4 (403)	12.7 (448)
	SL	(0111)	10.2 (360)	11.4 (403)
	Type			Flow Fan
Fan	Motor Output	W		13
Tan	Speed	Steps		Quiet, Auto
Air Direction C		Sieps		zontal, Downward
Air Eilter	Johnol			hable / Mildew Proof
Running Curre	ent (Rated)	A	0.19 - 0.18 - 0.17	0.21 - 0.20 - 0.19
Ū.	mption (Rated)	Ŵ	40 - 40 - 40	45 - 45 - 45
Power Factor	1 1 1	%	95.7 - 96.6 - 98.0	97.4 - 97.8 - 98.7
Temperature		70		uter Control
		mm		050 × 238
		mm		147 × 366
		kg		2
	t (Gross Mass)	kg		7
Sound Pressure Level	H/M/L/SL	dB(A)	45 / 41 / 36 / 33	44 / 40 / 35 / 32
Sound Power	Level	dB	60	59
Outdoor Unit	1		RX60	G4V1B
Casing Color			Ivory	White
-	Туре		Hermetically Se	aled Swing Type
Compressor	Model		2YC3	66BXD
	Motor Output	W	1,	100
Refrigerant	Туре		FVC	C50K
Oil	Charge	L	0.	65
Refrigerant	Туре			10A
iongeran	Charge	kg		50
Airflow Rate	Н	m³/min	50.9 (1,797)	46.3 (1,635)
	SL	(cfm)	42.4 (1,497)	42.4 (1,497)
Fan	Туре			peller
	Motor Output	W		3
Running Curre		A	9.01 - 8.62 - 8.23	9.19 - 8.80 - 8.41
	mption (Rated)	W	1,950 - 1,950 - 1,950	1,995 - 1,995 - 1,995
Power Factor		%	98.4 - 98.4 - 98.7	98.7 - 98.6 - 98.8
Starting Curre		A		.4
Dimensions $(H \times W \times D)$		mm		25 × 300
Packaged Dimensions $(H \times W \times D)$		mm		92 × 390
Weight (Mass)		kg		7
	(Gross Mass)	kg	5	2
Sound Pressure Level	H/SL	dB(A)	49 / 46	49 / 46
Sound Power Level	н	dB	62	62
Drawing No.			3D08	36414

Note:

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

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

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

	Indoor Unit		FTX71	GV1B		
Model	Outdoor Unit		RX71G	RX71GV1B8		
			Cooling	Heating		
Capacity Rate	d	kW	7.1 (2.3 ~ 8.5)	8.2 (2.3 ~ 10.2)		
(Min. ~ Max.)	ju	Btu/h	24,200 (7,800 ~ 29,000)	28,000 (7,800 ~ 34,800)		
. ,		kcal/h	6,110 (1,980 ~ 7,310)	7,050 (1,980 ~ 8,770)		
Running Curre		A	10.8 - 10.4 - 9.9	11.7 - 11.2 - 10.7		
Power Consur (Min. ~ Max.)	mption Rated	w	2,350 (570 ~ 3,200)	2,550 (520 ~ 3,820)		
Power Factor		%	98.9 - 98.2 - 98.9	99.1 - 99.0 - 99.3		
COP Rated						
(Min. ~ Max.)		W/W	3.02 (4.04 ~ 2.66)	3.22 (4.42 ~ 2.67)		
ci ·	Liquid	mm	φ6	6.4		
Piping Connections	Gas	mm	φ 15	5.9		
Connocación	Drain	mm	φ 18	3.0		
Heat Insulatio	'n		Both Liquid ar	nd Gas Pipes		
Max. Interunit	Piping Length	m	30	0		
Max. Interunit	Height Difference	m	20	0		
Chargeless		m	10	0		
	ditional Charge of	g/m	20	n		
Refrigerant		9				
Indoor Unit			FTX71	-		
Front Panel C			Wh			
	Н	→ ⊢	17.4 (614)	19.7 (696)		
Airflow Rate	M	m³/min	14.6 (516)	16.9 (597)		
	L	(cfm)	11.6 (410)	14.3 (505)		
	SL		10.6 (374)	12.7 (448)		
_	Туре		Cross Fl			
Fan	Motor Output	W	4(-		
	Speed	Steps	5 Steps, Q			
Air Direction C	Control		Right, Left, Horizo			
Air Filter			Removable / Washa			
Running Curre		A	0.21 - 0.20 - 0.19	0.28 - 0.27 - 0.26		
	mption (Rated)	W	45 - 45 - 45	60 - 60 - 60		
Power Factor		%	97.4 - 97.8 - 98.7	97.4 - 96.6 - 96.2		
Temperature Control			Microcompu			
Dimensions (H × W × D) mm			290 × 1,0			
Packaged Dimensions (H × W × D) mm			337 × 1,1			
Weight (Mass		kg	12			
Gross Weight	(Gross Mass)	kg	17	/		
Sound Pressure Level	H/M/L/SL	dB(A)	46 / 42 / 37 / 34	46 / 42 / 37 / 34		
Sound Power	Level	dB	63	62		
Outdoor Unit			RX71G	W1B8		
Casing Color			Ivory \	White		
	Туре		Hermetically Sea	aled Swing Type		
Compressor	Model		2YC63	3BXD		
	Motor Output	W	1,9			
Refrigerant	Туре		FVC	50K		
Oil	Charge	L	0.7			
Refrigerant	Туре		R-41			
. tomgera.tt	Charge	kg	2.3			
Airflow Rate	Н	m³/min	54.5 (1,924)	46.0 (1,624)		
	SL	(cfm)	46.0 (1,624)	46.0 (1,624)		
Fan	Туре		Prop			
	Motor Output	W	66			
Running Curre		A	10.59 - 10.20 - 9.71	11.42 - 10.93 - 10.44		
	mption (Rated)	W	2,305 - 2,305 - 2,305	2,490 - 2,490 - 2,490		
Power Factor		%	98.9 - 98.3 - 98.9	99.1 - 99.0 - 99.4		
Starting Curre		A	11.			
		mm	770 × 900 × 320			
		mm	900 × 925 × 390			
Weight (Mass)	kg	7.			
Gross Weight	(Gross Mass)	kg	79	9		
Sound Pressure Level	H/SL	dB(A)	52 / 49	52 / 49		
Sound Power Level	Н	dB	65	65		
Drawing No.			3D08	7076		

Note:

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

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 × 860 Btu/h = kW × 3412 cfm = m^3 /min × 35.3

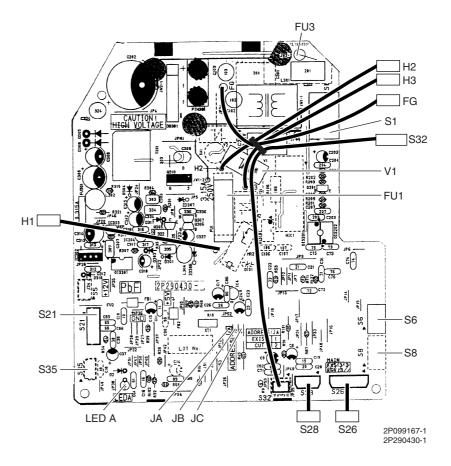
Part 3 Printed Circuit Board Connector Wiring Diagram

1.	Indo	or Unit	12
2.	Outo	loor Unit	14
	2.1	RX50/60G2V1B, 71 Class	14
	2.2	RX50/60G2V1B9, RX50/60G3V1B, RX60G4V1B	16

1. Indoor Unit

Control PCB (PCB1)

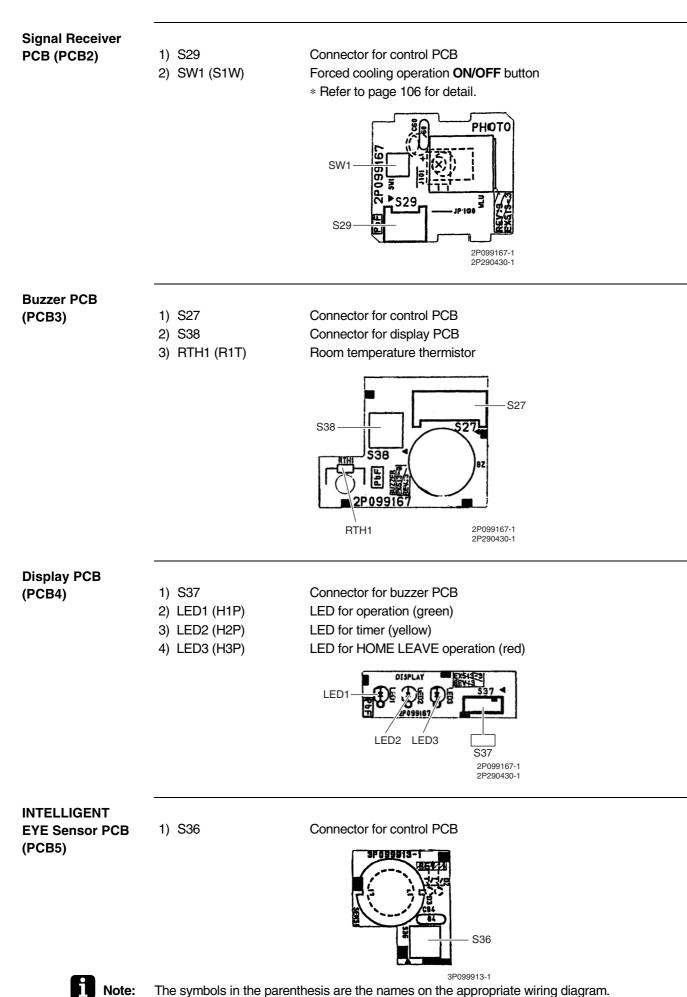
1) S1	Connector for DC fan motor
2) S6	Connector for swing motor (horizontal blades)
3) S8	Connector for swing motor (vertical blades)
4) S21	Connector for centralized control (HA)
5) S26	Connector for buzzer PCB
6) S28	Connector for signal receiver PCB
7) S32	Indoor heat exchanger thermistor
8) S35	Connector for INTELLIGENT EYE sensor PCB
9) H1, H2, H3	Connector for terminal board (indoor - outdoor transmission)
10)FG	Connector for terminal board (frame ground)
11)JA	Address setting jumper
	* Refer to page 108 for detail.
12)JB	Fan speed setting when compressor stops for thermostat OFF
	* Refer to page 110 for detail.
13)JC	Power failure recovery function (auto-restart)
-/	* Refer to page 110 for detail.
14)LED A	LED for service monitor (green)
15)FU1 (Fu), FU3	
16)V1	Fuse (3.15 A, 250 V) Varistor
10/01	Valision



Caution

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

Note: The symbols in the parenthesis are the names on the appropriate wiring diagram.



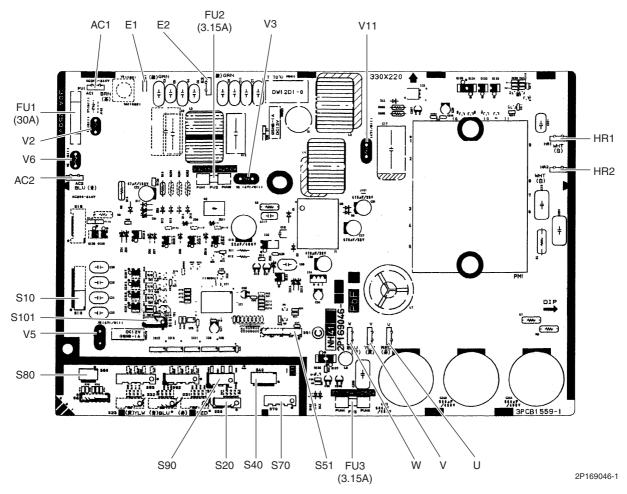
ibols in the parenthesis are the names of the appropriate with guagram.

2. Outdoor Unit 2.1 RX50/60G2V1B, 71 Class

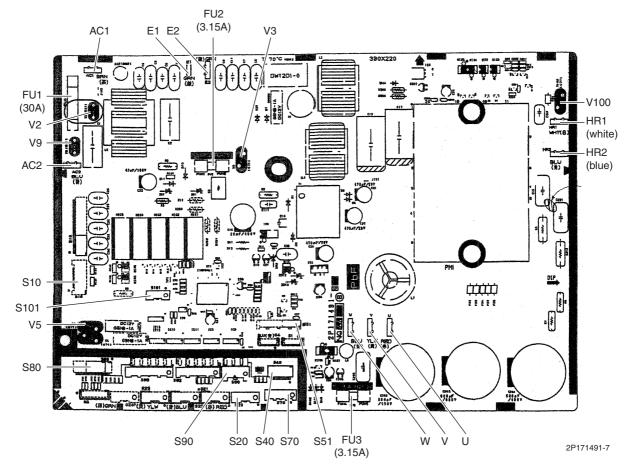
Main PCB (PCB 1)

1) S10	Connector for terminal board (indoor - outdoor transmission)
,	
2) S20	Connector for 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) HR1, HR2	Connector for reactor
10)E1, E2	Connector for earth wire
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	Varistor
V6, V11	(for 50/60 model)
V9, V100	(for 71 model)
-,	

RX50/60G2V1B

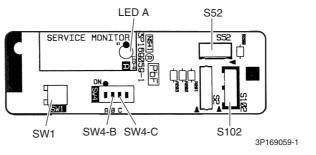


71 class



Service Monitor PCB (PCB 2)

1) S52, S102	Connector for main PCB
2) LED A	LED for service monitor (green)
3) SW1	Forced cooling operation ON/OFF button
	 Refer to page 106 for detail.
4) SW4-B	Switch for facility setting (71 class only)
	* Refer to page 109 for detail.
5) SW4-C	Switch for improvement of defrost performance
	 Refer to page 110 for detail.

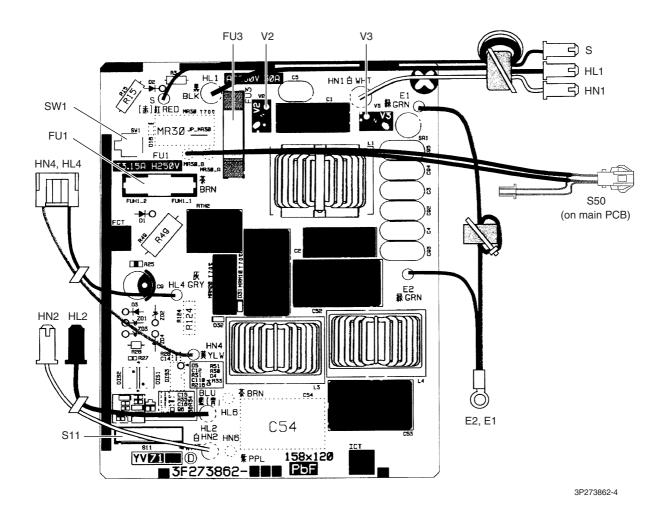


★ SW4-A has no function. Keep it OFF.

2.2 RX50/60G2V1B9, RX50/60G3V1B, RX60G4V1B

Filter PCB (PCB 1)

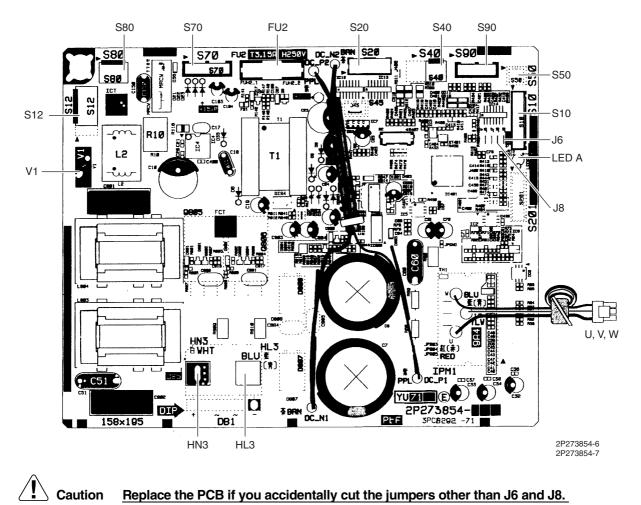
1)	S11	Connector for S10 on main PCB
2)	HL1, HN1, S	Connector for terminal board
3)	E1, E2	Terminal for earth wire
4)	HL2, HN2	Connector for HL3, HN3 on main PCB
5)	HL4, HN4	Connector for S12 on main PCB
6)	FU1	Fuse (3.15 A, 250 V)
7)	FU3	Fuse (30 A, 250 V)
8)	V2, V3	Varistor
9)	SW1	Forced cooling operation ON/OFF button * Refer to page 106 for detail.



Printed Circuit Board Connector Wiring Diagram

Main	PCB	(PCB	2)
------	-----	------	----

1) S10	Connector for S11 on filter PCB
2) S12	Connector for HL4, HN4 on filter PCB
3) S20	Connector for 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 109 for detail.
15)J8	Jumper for improvement of defrost performance
	 Refer to page 110 for detail.



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.

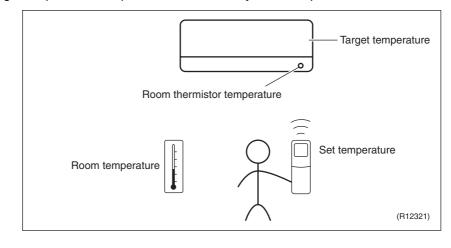
Part 4 Function and Control

1.	Main	Functions	.19
	1.1	Temperature Control	
	1.2	Frequency Principle	.19
	1.3	Airflow Direction Control	.21
	1.4	Fan Speed Control for Indoor Unit	.22
	1.5	Program Dry Operation	.23
	1.6	Automatic Operation	
	1.7	Thermostat Control	.25
	1.8	NIGHT SET Mode	.26
	1.9	HOME LEAVE Operation	.26
	1.10	INTELLIGENT EYE Operation	.28
	1.11	Inverter POWERFUL Operation	.29
		Clock Setting	
	1.13	Other Functions	.30
2.	Func	tion of Thermistor	.31
3.	Cont	rol Specification	.32
	3.1	Mode Hierarchy	
	3.2	Frequency Control	.33
	3.3	Controls at Mode Changing / Start-up	.35
	3.4	Discharge Pipe Temperature Control	
	3.5	Input Current Control	.38
	3.6	Freeze-up Protection Control	.39
	3.7	Heating Peak-cut Control	.39
	3.8	Outdoor Fan Control	.40
	3.9	Liquid Compression Protection Function	.40
	3.10	Defrost Control	.41
	3.11	Electronic Expansion Valve Control	.42
		Malfunctions	

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.

1.2 Frequency Principle

Control Parameters The frequency of the compressor is controlled by the following 2 parameters:

- The load condition of the operating indoor unit
- The difference between the room thermistor temperature and the target temperature

The target frequency is adapted by additional parameters in the following cases:

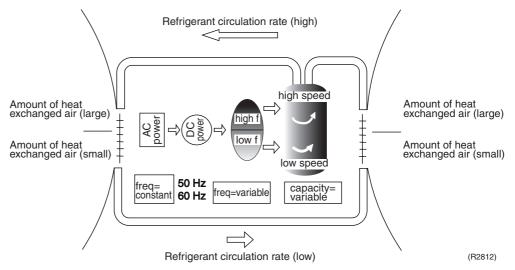
- Frequency restrictions
- Initial settings
- Forced cooling operation

Inverter Principle

To regulate the capacity, a frequency control is needed. The inverter makes it possible to control the rotation speed of the compressor. The following table explains the conversion principle:

principie.	
Phase	Description
1	The supplied AC power source is converted into the DC power source for the present.
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 increase of refrigerant circulation. This leads to a larger amount of heat exchange per unit. When the frequency decreases, the rotation speed of the compressor decreases resulting in a decrease of refrigerant circulation. This leads to a smaller amount of heat exchange per unit.





Inverter Features

The inverter provides the following features:

- The regulating capacity can be changed according to the changes in the outdoor temperature and cooling / heating load.
- Quick heating and guick cooling The rotation speed of the compressor is increased when starting the heating (or cooling). This enables to reach the set temperature quickly.
- Even during extreme cold weather, high capacity is achieved. It is maintained even when the outdoor temperature is 2°C.
- Comfortable air conditioning A fine adjustment is integrated to keep the room temperature constant.
- Energy saving heating and cooling Once the set temperature is reached, the energy saving operation enables to maintain the room temperature at low power.

Frequency Limits	The following functions regulate the minimum and maximum frequency:		
	Frequency	Functions	
	Low	Four way valve operation compensation. Refer to page 36.	
	High	 Compressor protection function. Refer to page 36. Discharge pipe temperature control. Refer to page 37. Input current control. Refer to page 38. Freeze-up protection control. Refer to page 39. Heating peak-cut control. Refer to page 39. Defrost control. Refer to page 41. 	

Forced Cooling

Refer to page 106 for detail.

Operation

1.3 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.

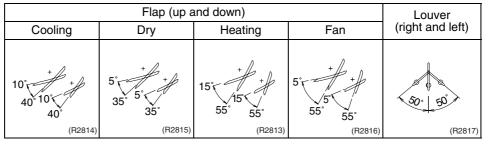
<Heating>

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

Wide-Angle Louvers The louvers, made of elastic synthetic resin, provide a wide range of airflow that guarantees comfortable air distribution.

Auto-Swing

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

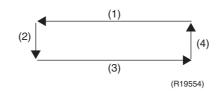


3-D Airflow

Alternative repetition of vertical and horizontal swing motions enables uniform air-conditioning of the entire room.

When the horizontal swing and vertical swing are both set to automatic operation, the airflow becomes 3-D airflow. The horizontal and vertical swing motions are alternated and the airflow direction changes in the order shown in the following diagram.

- (1) The louvers move from the right to the left.
- (2) The flaps move downward.
- (3) The louvers move from the left to the right.
- (4) The flaps move upward.



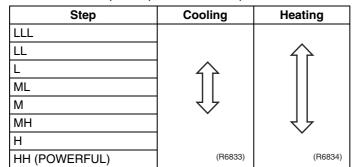
Fan Speed Control for Indoor Unit 1.4

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.

Automatic Fan Speed Control

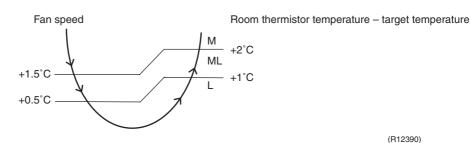
In automatic fan speed operation, the step SL is not available.



= The airflow rate is automatically controlled within this range when the FAN setting button is set to automatic.

<Cooling>

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



(R12390)

<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.

1.5 Program Dry Operation

Outline

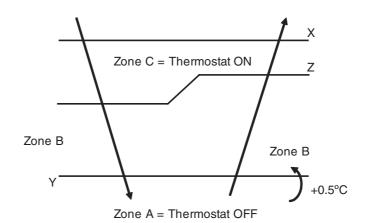
Program dry operation removes humidity while preventing the room temperature from lowering. Since the microcomputer controls both the temperature and airflow rate, the temperature adjustment and **FAN** setting buttons are inoperable.

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 \star
24°C or more	Room thermistor	X – 2.5°C	X – 0.5°C
18 ~ 23.5°C	temperature at start-up	X – 2.0°C	X – 0.5°C
17.5°C or less	18°C	X – 2.0°C	$X - 0.5^{\circ}C = 17.5^{\circ}C$

 \star Thermostat turns on also when the room temperature is in the zone B for 10 minutes.



(R11581)

1.6 Automatic Operation

Outli	ne
-------	----

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.

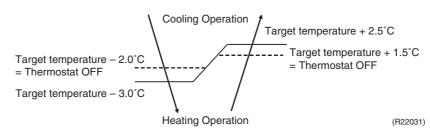
The unit automatically switches the operation mode to maintain the room temperature at the set temperature.

Detail

- Ts: set temperature (set by remote controller) Tt: target temperature (determined by microcomputer) Tr: room thermistor temperature (detected by room temperature thermistor) C: correction value
- 1. The set temperature (Ts) determines the target temperature (Tt). (Ts = $18 \sim 30^{\circ}$ C).
- 2. The target temperature (Tt) is calculated as; Tt = Ts + C

where C is the correction value. $C = 0^{\circ}C$

- 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:
 - $Tr \ge Tt + 2.5^{\circ}C$
 - (2) Cooling \rightarrow Heating switching point: Tr < Tt - 3.0°C
 - (3) Thermostat ON/OFF point is the same as the ON/OFF point of cooling or heating operation.
- 4. During initial operation
 - $Tr \ge Ts$: Cooling operation
 - Tr < Ts : Heating operation



Ex: When the target temperature is 25°C

Cooling \rightarrow 23.0°C: Thermostat OFF \rightarrow 22.0°C: Switch to heating Heating \rightarrow 26.5°C: Thermostat OFF \rightarrow 27.5°C: Switch to cooling

Thermostat Control 1.7

Outline

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

Detail

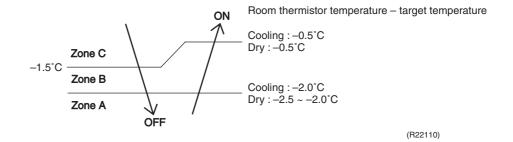
Thermostat OFF Condition

• The temperature difference is in the zone A.

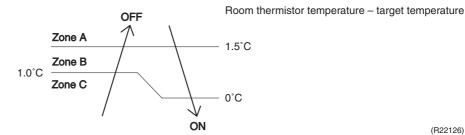
Thermostat ON Conditions

- 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
- 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>



(R22126)



Refer to Temperature Control on page 19 for detail.

1.8 NIGHT SET Mode

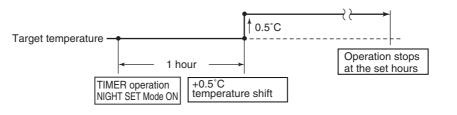
Outline

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

Detail

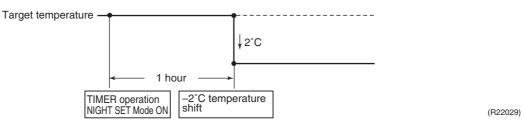
NIGHT SET Mode continues operation at the target temperature for the first one hour, then automatically raises the target temperature slightly in cooling, or lowers it slightly in heating. This prevents excessive cooling in summer and excessive heating in winter to ensure comfortable sleeping conditions,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

<Cooling>



(R22018)

<Heating>



1.9 HOME LEAVE Operation

Outline HOME LEAVE operation is a function that allows you to record your preferred set temperature and airflow rate. You can start your preferred operation mode simply by pressing the HOME LEAVE button on the remote controller.

Detail

The indoor unit is operated according to the set temperature and airflow rate for HOME LEAVE which were recorded in the memory of the remote controller.

Start of Function

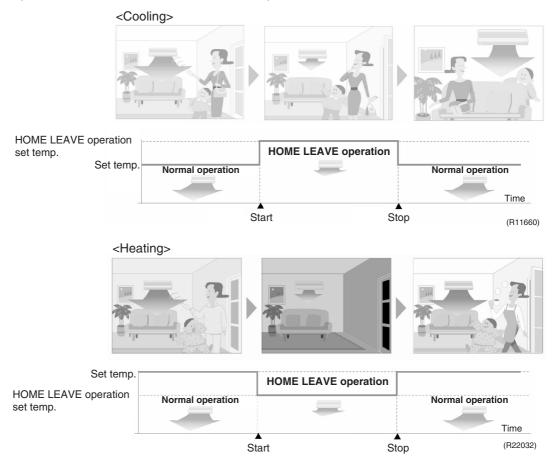
The function starts when the **HOME LEAVE** button is pressed in cooling operation, heating operation (including POWERFUL operation), or while the operation is stopped.

A mark representing HOME LEAVE is indicated on the display of the remote controller, and the LED (red) of indoor unit representing HOME LEAVE lights up. (It goes out when the operation is stopped.)

- If the HOME LEAVE button is pressed in POWERFUL operation, the POWERFUL operation is canceled and the HOME LEAVE function becomes effective.
- The **HOME LEAVE** button is ineffective in dry operation and fan operation.

End of Function

The function ends when the **HOME LEAVE** button is pressed again during HOME LEAVE operation or when the **POWERFUL** button is pressed.



Setting Temperature and Airflow Rate

When using HOME LEAVE operation for the first time, set your preferred temperature and airflow rate for HOME LEAVE operation.

	Initial setting		Selectable range		
	Temperature	Airflow rate	Temperature	Airflow rate	
Cooling	25°C	A	18 ~ 32°C	5 steps, \Lambda , 🖄	
Heating	25°C	A	10 ~ 30°C	5 steps, \Lambda , 🎽	

- 1. Press the HOME LEAVE button.
 - Make sure 🚖 is displayed on the remote controller.
- 2. Adjust the temperature with the \blacktriangle or \blacktriangledown button.
- 3. Adjust the airflow rate with the FAN button.

HOME LEAVE operation will run with these settings the next time you start HOME LEAVE operation. To change the recorded information, repeat steps 1 - 3.



- 1. The set temperature and airflow rate are recorded in the remote controller. When the remote controller is reset due to battery replacement, the temperature and airflow rate for HOME LEAVE operation needs to be set again.
- 2. The operation mode cannot be changed while HOME LEAVE operation is being used.

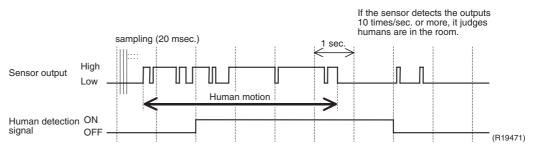
1.10 INTELLIGENT EYE Operation

Outline

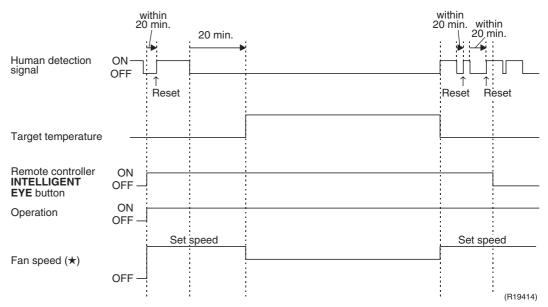
This function detects the presence of humans in the room with a motion sensor (INTELLIGENT EYE) and reduces the capacity when there is nobody in the room in order to save electricity.

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, it judges humans are in the room as the motion signal is ON.
- The sensor may detect human motion with up to 20 msec. latency.



2. The motions (in cooling)

- ★ In FAN operation, the fan speed is reduced by 60 rpm.
- 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.)

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

1.11 Inverter POWERFUL Operation

Outline

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

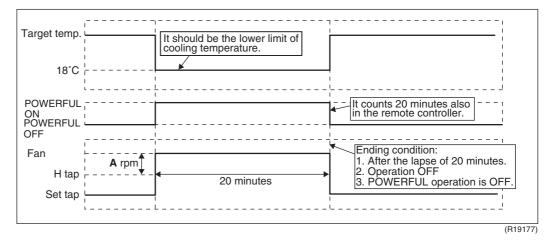
Detail

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	32°C
FAN	H tap + A rpm	—
AUTO	Same as cooling / heating in POWERFUL operation	The target temperature is kept unchanged.

A = 90 rpm

Ex: POWERFUL operation in cooling.



POWERFUL Operation cannot be used together with OUTDOOR UNIT QUIET Operation.

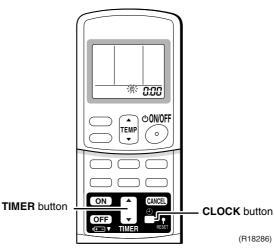
1.12 Clock Setting

Note:

ARC433 Series

The clock can be set by taking the following steps:

- 1. Press the **CLOCK** button. \rightarrow 0:00 is displayed and O blinks.
- Press the TIMER ▲ or TIMER ▼ button to set the clock to the present time. Holding down the TIMER ▲ or TIMER ▼ button increases or decreases the time display rapidly.
- 3. Press the CLOCK button again.
 - \rightarrow : blinks and clock setting is completed.



1.13 Other Functions

1.13.1 Hot-Start Function

In order to prevent the cold air blast that normally occurs when heating operation is started, the temperature of the indoor heat exchanger is detected, and the airflow is either stopped or significantly weakened resulting in comfortable heating.



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

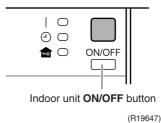
1.13.2 Signal Receiving Sign

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

1.13.3 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



<Forced cooling operation>

Forced cooling operation can be started by pressing the **ON/OFF** button for $5 \sim 9$ seconds while the unit is not operating.

Refer to page 106 for detail.



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

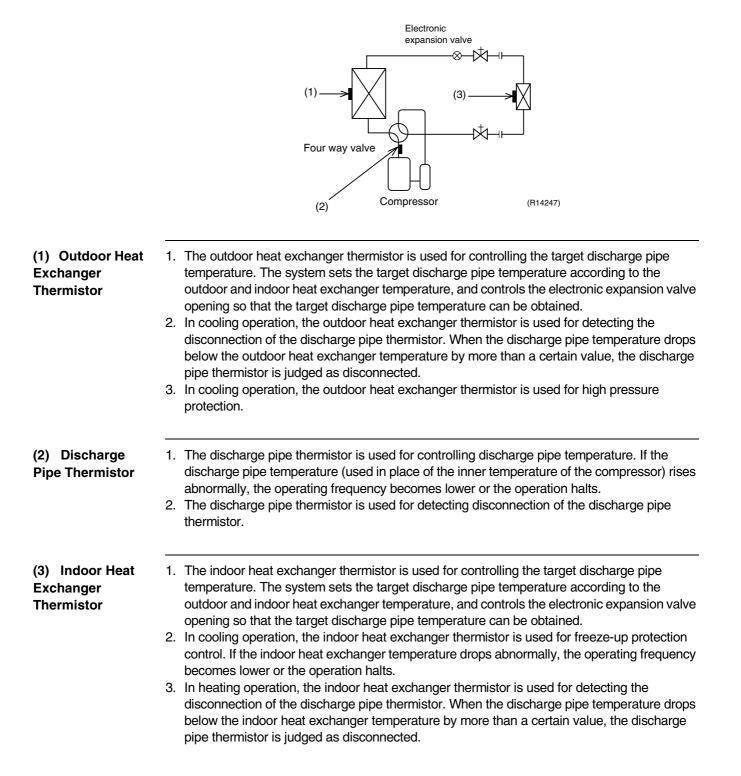
1.13.4 Auto-restart Function

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

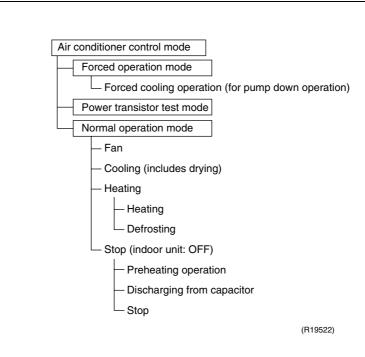


3. Control Specification3.1 Mode Hierarchy

Outline

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

Detail





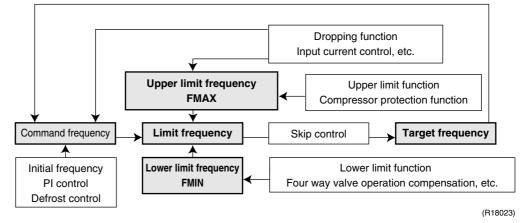
: Unless specified otherwise, a dry operation command is regarded as cooling operation.

3.2 Frequency Control

Outline

The compressor frequency is determined according to the difference between the room thermistor temperature and the target temperature.

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



Detail

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.

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

<\D signal: Indoor Frequency Command>

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

Temperature difference	∆D signal	Temperature difference	∆D signal	Temperature difference	∆D signal	Temperature difference	∆D signal
-2.0	*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	А	5.0	E
-0.5	3	1.5	7	3.5	В	5.5	F

*OFF = Thermostat OFF

PI Control

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 control when other controls are functioning

When frequency is dropping;

Frequency control is carried out only when the frequency drops.

For controlling lower limit;
 Frequency control 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

O	ut	liı	ne
\mathbf{v}	uı		1C

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

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
 Radiation fin temperature < 85°C
- OFF condition Discharge pipe temperature > C°C Radiation fin temperature ≥ 90°C

Control II

- ON condition Discharge pipe temperature < D°C Radiation fin temperature < 85°C
- OFF condition Discharge pipe temperature > E°C Radiation fin temperature ≥ 90°C

	A (°C)	B (°C)	C (°C)	D (°C)	E (°C)
RX50/60G2V1B RX50/60G2V1B9 71 class	10	6	8	10.5	12
RX50/60G3V1B RX60G4V1B	-2.5	0	2	10	12

3.3.2 Four Way Valve Switching

Outline The four way valve coil is energized / not energized depending on the operation. (Heating: ON, Cooling / Dry / Defrost: OFF) 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 seconds after the operation is stopped.

3.3.3 Four Way Valve Operation Compensation

Outline At the beginning of operation as the four way valve is switched, the pressure difference to activate the four way valve is acquired when the output frequency is higher 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.

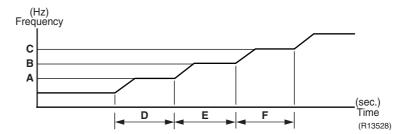
	50/60 class	71 class
A (Hz)	48	28
B (seconds)	70	70

3.3.4 3-Minute Standby

Turning on the compressor is prohibited for 3 minutes after turning it off. (The function is not activated 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.)



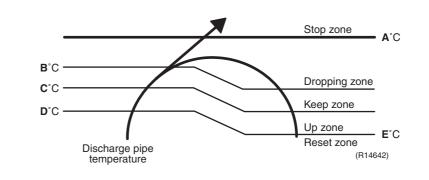
	50/60 class	71 class
A (Hz)	55	55
B (Hz)	70	65
C (Hz)	85	80
D (seconds)	120	120
E (seconds)	200	200
F (seconds)	470	470

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



	50/60 class	71 class
A (°C)	110	120
B (°C)	103	111
C (°C)	101.5	109
D (°C)	100	107 ★
E (°C)	95	107 ★

★ The same value continues.

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.			

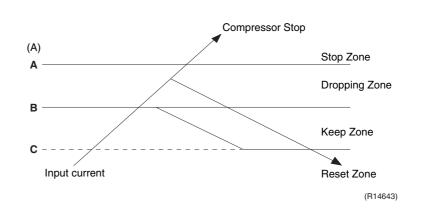
3.5 Input Current Control

Outline

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

In case of heat pump models, this control is the upper limit control of frequency and takes priority over the lower limit 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.

	RX500	RX50G2V1B		RX60G2V1B		
	Cooling	Heating	Cooling	Heating		
A (A)	20).0	20	20.0		
B (A)	10.0	15.0	12.0	16.0		
C (A)	9.0	14.0	11.0	15.0	I	
		RX50G2V1B9 RX50G3V1B		RX60G2V1B9 RX60G3V1B RX60G4V1B		lass
	Cooling	Heating	Cooling	Heating	Cooling	Heating
A (A)	20	20.0		20.0).0
B (A)	13.0	15.0	13.0	16.0	17.0	18.75
C (A)	12.0	14.0	12.0	15.0	16.0	17.75

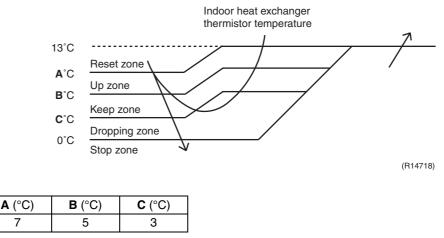
Limitation of current dropping and stop value according to the outdoor temperature

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

3.6 Freeze-up Protection Control

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

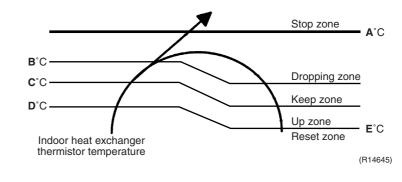
The operating frequency limitation is judged with the indoor heat exchanger temperature.



3.7 Heating Peak-cut Control

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

The operating frequency limitation is judged with the indoor heat exchanger temperature.



A (°C)	B (°C)	C (°C)	D (°C)	E (°C)
65	56	55	53	51

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.

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 (cooling, heating, dry) 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 increase the dependability of the compressor, the compressor is stopped according to the outdoor 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 defrosting.

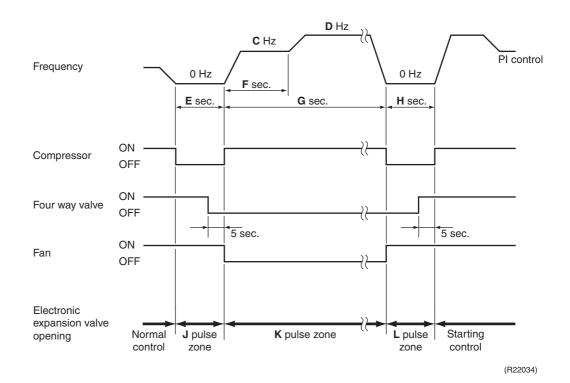
Detail

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 have passed since 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)



50 class 60 class 71 class A (minutes) 44 44 38 **B** (°C) 4~12 4~12 4 ~ 12 C (Hz) 55 55 39 D (Hz) 90 90 62 E (seconds) 60 60 60 120 120 120 F (seconds) 460 460 650 G (seconds) H (seconds) 30 50 60 J (pulse) 450 ★ 450 ★ 450 450 ★ K (pulse) 450 ★ 350 L (pulse) 450 ★ 450 ★ 400

 \star : The same value continues.

3.11 Electronic Expansion Valve Control

Outline

The following items are included in the electronic expansion valve control.

Electronic expansion valve is fully closed

1. Electronic expansion valve is fully closed when turning on the power.

2. Pressure equalizing control

Open Control

- 1. Electronic expansion valve control when starting operation
- 2. Electronic expansion valve control when the frequency changes
- 3. Electronic expansion valve control for defrosting
- 4. Electronic expansion valve control when the discharge pipe temperature is abnormally high
- 5. 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 electronic expansion valve control which function in each operation mode.

Status Control	Power on ; Compressor stop	Operation start	Frequency change under starting control	During target discharge pipe temperature control	Frequency change under target discharge pipe temperature control	Discharge pipe thermistor disconnection	Frequency change under discharge pipe thermistor disconnection control	During defrost control
Starting operation control		•	—	—	—		<u> </u>	—
Control when the frequency changes		_	•	_	•	_	_	_
Target discharge pipe temperature control		_	_	٠	_	l	_	_
Discharge pipe thermistor disconnection control		_	_	_		•	•	_
High discharge pipe temperature control		•	•	•	•	_	_	_
Defrost control (heating only)		_	_	_	_		_	٠
Pressure equalizing control	•	_	_	_		_	_	_
Opening limit control		•	•	•	•	•	•	_

• : Available

- : Not available

3.11.1 Fully Closing with Power ON

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

3.11.2 Pressure Equalizing Control

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

3.11.3 Opening Limit Control

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

	50/60 class	71 class
Maximum opening (pulse)	480	450
Minimum opening (pulse)	54	75

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

3.11.4 Starting Operation Control

The electronic expansion valve opening is controlled when the operation starts, thus preventing 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 changes to a specified value in a certain time period, the target discharge pipe temperature control is canceled and the target opening of the electronic expansion value is changed according to the frequency shift.

3.11.6 High Discharge Pipe Temperature Control

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

3.11.7 Discharge Pipe Thermistor Disconnection Control

for the 1.	Exermining thermistor disconnection hen the starting control (cooling: A seconds, heating: B seconds) finishes, the detection timer r disconnection of the discharge pipe thermistor (C seconds) starts. When the timer is over, e following adjustment is made. When the operation mode is cooling When the following condition is fulfilled, the discharge pipe thermistor disconnection is ascertained. Discharge pipe temperature + $6^{\circ}C$ < outdoor heat exchanger temperature When the operation mode is heating When the following condition is fulfilled, the discharge pipe thermistor disconnection is ascertained. Discharge pipe temperature + $6^{\circ}C$ < indoor heat exchanger temperature Discharge pipe temperature + $6^{\circ}C$ < indoor heat exchanger temperature

A (seconds)	10
B (seconds)	30
C (seconds)	540

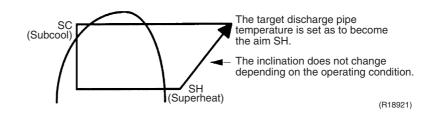
When the thermistor is disconnected

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 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 electronic expansion valve opening and the target discharge pipe temperature are checked every 20 seconds. The opening degree of the electronic expansion valve is adjusted 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 can be detected in the following thermistors:

- 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.

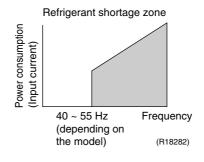
Detail

- If the OL (compressor head) temperature exceeds 120 ~ 130°C (depending on the model), the system shuts down the compressor.
- If the inverter current exceeds 20 A, the system shuts down the compressor.

3.12.3 Refrigerant Shortage Detection

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.



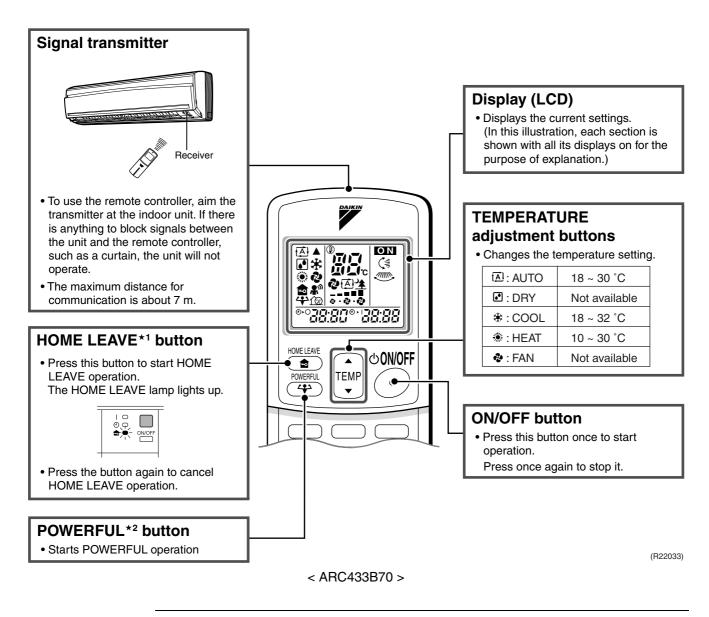


Refer to page 62 for detail.

Part 5 Remote Controller

emote Controller47
Re

1. Remote Controller



Reference

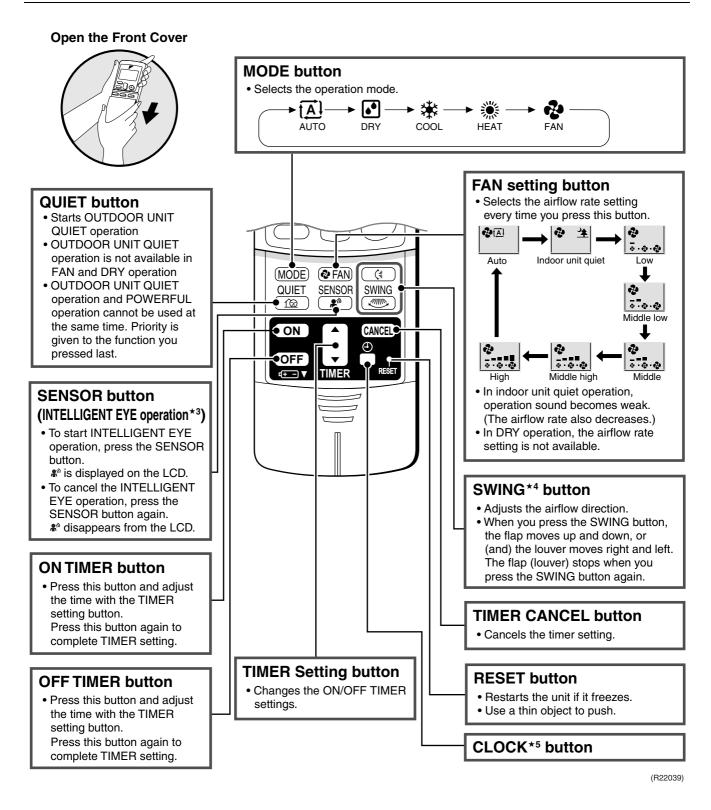
Refer to the following pages for detail.

★1	HOME LEAVE operation	P.26
★2	Inverter POWERFUL operation	P.29



Refer to the operation manual of applicable model for detail. You can download operation manuals from Daikin Business Portal:
 Daikin Business Portal → Product Information → Operation/Installation Manual

(URL: https://global1d.daikin.com/business_portal/login/)



Reference

Refer to the following pages for detail.

★3	INTELLIGENT EYE operation	P.28	*	★5	Clock setting	P.29
★4	Auto-swing	P.21				



Refer to the operation manual of applicable model for detail. You can download operation manuals from Daikin Business Portal: Daikin Business Portal \rightarrow Product Information \rightarrow Operation/Installation Manual

(URL: https://global1d.daikin.com/business_portal/login/)

Part 6 Service Diagnosis

1.	General Problem Symptoms and Check Items	51
2.	Troubleshooting with LED	52
	2.1 Indoor Unit	
	2.2 Outdoor Unit	52
3.	Service Diagnosis	53
4.	Troubleshooting	56
	4.1 Error Codes and Description	
	4.2 Indoor Unit PCB Abnormality	57
	4.3 Freeze-up Protection Control / Heating Peak-cut Control	58
	4.4 Fan Motor (DC Motor) or Related Abnormality	
	4.5 Thermistor or Related Abnormality (Indoor Unit)	61
	4.6 Refrigerant Shortage	
	4.7 Low-voltage Detection or Over-voltage Detection	
	4.8 Signal Transmission Error (Between Indoor Unit and Outdoor Unit)	66
	4.9 Signal Transmission Error on Outdoor Unit PCB	
	(RX50/60G2V1B, 71 Class Only)	
	4.10 Unspecified Voltage (Between Indoor Unit and Outdoor Unit)	
	4.11 Outdoor Unit PCB Abnormality	
	4.12 OL Activation (Compressor Overload)	
	4.13 Compressor Lock	
	4.14 DC Fan Lock	
	4.15 Input Overcurrent Detection	
	4.16 Four Way Valve Abnormality4.17 Discharge Pipe Temperature Control	
	4.17 Discharge Pipe remperature Control	
	4.19 Compressor System Sensor Abnormality	
	4.20 Position Sensor Abnormality	
	4.21 CT or Related Abnormality (RX50/60G2V1B, 71 Class Only)	
	4.22 Thermistor or Related Abnormality (Outdoor Unit)	
	4.23 Electrical Box Temperature Rise	
	4.24 Radiation Fin Temperature Rise	
	4.25 Output Overcurrent Detection	
5	Check	
0.	5.1 Thermistor Resistance Check	
	5.2 Indoor Fan Motor Connector Output Check	
	5.3 Power Supply Waveforms Check	
	5.4 Electronic Expansion Valve Check	
	5.5 Four Way Valve Performance Check	
	5.6 Inverter Unit Refrigerant System Check	
	5.7 Inverter Analyzer Check	98
	5.8 Rotation Pulse Check on the Outdoor Unit PCB	
	5.9 Installation Condition Check	100
	5.10 Discharge Pressure Check	100
	5.11 Outdoor Fan System Check	101
	5.12 Main Circuit Short Check	101

5.13 Capacitor Voltage Check	
5.14 Power Module Check	102

1. General Problem Symptoms and Check Items

Symptom	Check Item	Measures	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°CDB.	
	Diagnose with remote controller indication.	_	56
	Check the remote controller addresses.	Check if address settings for the remote controller and indoor unit are correct.	108
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°CDB.	
	Diagnose with remote controller indication.	_	56
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 electronic expansion valve.	Set the unit to cooling operation, and check the temperature of the liquid pipe to see if the electronic expansion valve works.	_
	Diagnose with remote controller indication.	_	56
	Diagnose by service port pressure and operating current.	Check for refrigerant shortage.	62
Large operating noise and vibrations	Check the output voltage of the power module.	_	102
	Check the power module.	_	—
	Check the installation condition.	Check if the required spaces for installation (specified in the installation manual) are provided.	_

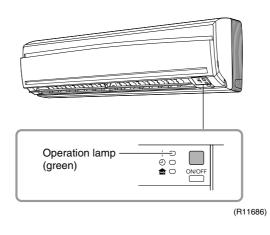
2. Troubleshooting with LED2.1 Indoor Unit

Operation Lamp

The operation 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 a green LED (LED A) on the control PCB. When the microcomputer works in order, the LED A blinks. (Refer to page 12 for the location of LED A.)

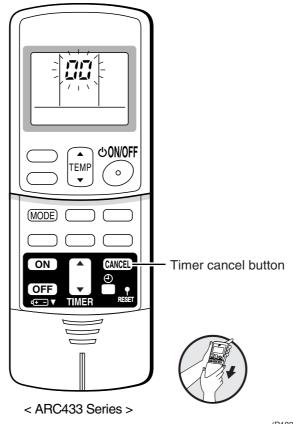
2.2 Outdoor Unit

The outdoor unit has one green LED (LED A) on the PCB. When the microcomputer works in order, the LED A blinks. (Refer to page 15, 17 for the location of LED A.)

3. Service Diagnosis

Method 1

1. When the timer cancel button is held down for 5 seconds, 22 is displayed on the temperature display screen.



(R18206)

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

The code indication changes in the sequence shown below.

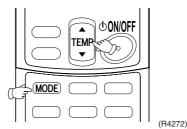
No.	Code	No.	Code	No.	Code
1	88	12	57	23	XC
2	UN	13	X8	24	ε;
3	83	14	<i>3</i> 3	25	<i>P</i> 4
4	88	15	83	26	13
5	LS	16	8;	27	٤4
6	88	17	64	28	XS
7	εs	18	εs	29	83
8	۶8	19	XS	30	U2
9	63	20	38	31	UN .
10	ua	21	UR	32	88
11	£9	22	<i>8</i> 5	33	88



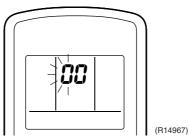
- 1. A short beep or two consecutive beeps indicate non-corresponding codes.
- 2. To return to the normal mode, hold the timer cancel button down for 5 seconds. When the remote controller is left untouched for 60 seconds, it also returns to the normal mode.
- Not all the error codes are displayed. When you cannot find the error code, try method 2. (→ Refer to page 54.)

Method 2

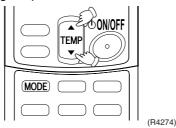
1. Press the center of the **TEMP** button and the **MODE** button at the same time to enter the diagnosis mode.



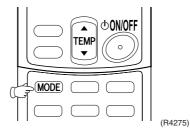
The left-side number blinks.



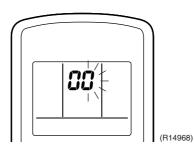
2. Press the **TEMP** ▲ or **TEMP** ▼ button and change the number until you hear the two consecutive beeps or the long beep.



- 3. 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. \rightarrow Refer to page 56.)
- 4. Press the MODE button.

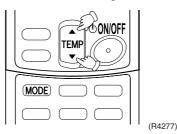


The right-side number blinks.

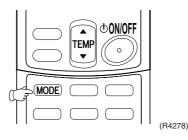


Service Diagnosis

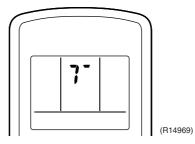
5. Press the **TEMP** \blacktriangle or **TEMP** \checkmark button and change the number until you hear the long beep.



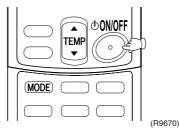
- 6. Diagnose by the sound.
 - \star beep: The left-side number does not correspond with the error code.
 - ★ two consecutive beeps: The left-side number corresponds with the error code but the right-side number does not.
 - \star long beep: Both the left-side and right-side numbers correspond with the error code.
- 7. 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 56.
- 8. Press the MODE button to exit from the diagnosis mode.



The display **7**⁻ means the trial operation mode. Refer to page 107 for trial operation.



9. Press the ON/OFF button twice to return to the normal mode.



A

Note: When the remote controller is left untouched for 60 seconds, it returns to the normal mode.

4. Troubleshooting

4.1 Error Codes and Description

	Error Codes	Description	Reference Page
System	00	Normal	_
	ua*	Refrigerant shortage	62
	82	Low-voltage detection or over-voltage detection	64
	감옥	Signal transmission error (between indoor unit and outdoor unit)	66
	8	Unspecified voltage (between indoor unit and outdoor unit)	69
Indoor Unit	81	Indoor unit PCB abnormality	57
Onit	85	Freeze-up protection control / heating peak-cut control	58
	88	Fan motor (DC motor) or related abnormality	59
	64	Indoor heat exchanger thermistor or related abnormality	61
	63	Room temperature thermistor or related abnormality	61
Outdoor Unit	ε;	Outdoor unit PCB abnormality	70
Unit	85 *	OL activation (compressor overload)	72
	E8 ★	Compressor lock	74
	£9 *	DC fan lock	75
	88	Input overcurrent detection	76
	88	Four way valve abnormality	77
	83	Discharge pipe temperature control	79
	88	High pressure control in cooling	80
	HQ	Compressor system sensor abnormality	81
	HS	Position sensor abnormality	83
	X8	CT or related abnormality (RX50/60G2V1B, 71 class only)	86
	H3	Outdoor temperature thermistor or related abnormality	88
	J3★	Discharge pipe thermistor or related abnormality	88
	JS	Outdoor heat exchanger thermistor or related abnormality	88
	13	Electrical box temperature rise	90
	14	Radiation fin temperature rise	91
	LS ★	Output overcurrent detection	93
	РЧ	Radiation fin thermistor or related abnormality	88
	มา	Signal transmission error on outdoor unit PCB (RX50/60G2V1B, 71 class only)	68

★: Displayed only when system-down occurs.

4.2 Indoor Unit PCB Abnormality

Model Type

Wall mounted type

Error Code	8 ;			
Method of Error Detection	The system checks if the circuit works properly within the microcomputer of the indoor unit.			
Error Decision Conditions	The system cannot set the internal settings.			
Supposed Causes	 Wrong models interconnected Defective indoor unit PCB Disconnection of connector Reduction of power supply voltage 			
Froubleshooting	Image: Control of Combination of the power switch before connecting or disconnecting connectors, or parts may be damaged. Image: Combination of the indoor and outdoor unit matched? Image: Check the connection of connectors (See Note.). Image: Check the power supply Image: Correct the connection. Image: Correct the connection.			
Note:	Start operation. YES Replace the indoor unit PCB (control PCB). NO Completed. Completed. Completed.	(R20486)		

Connector

Terminal board ~ Control PCB (H1, H2, H3)

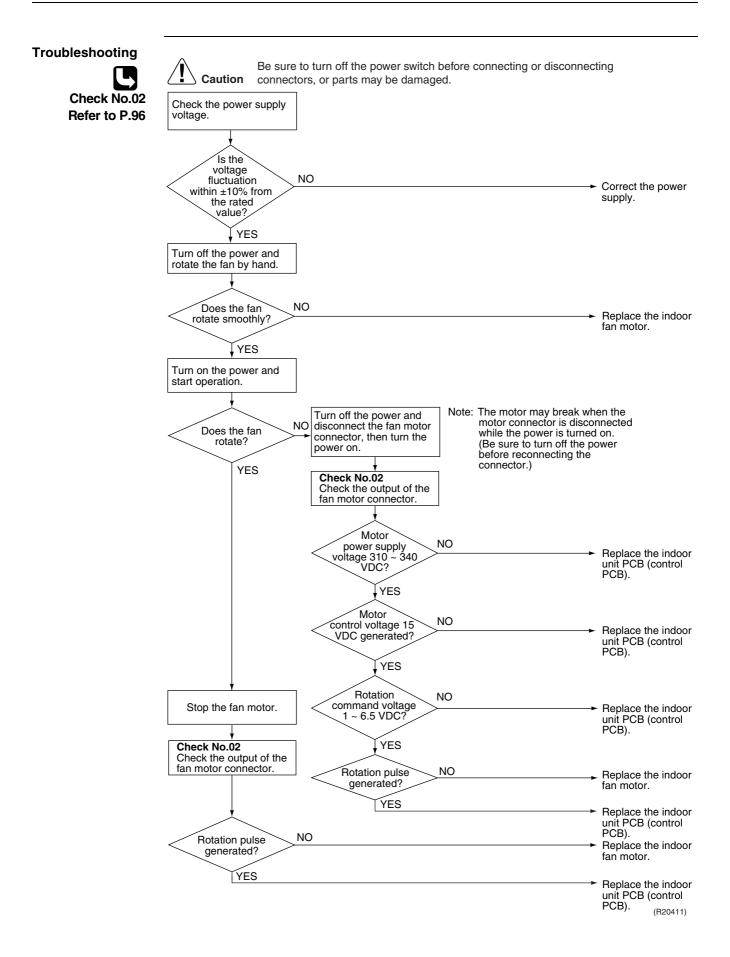
4.3 Freeze-up Protection Control / Heating Peak-cut Control

Error Code	85	
Method of Error Detection	 Freeze-up protection control During cooling operation, the freeze-up protection con according to the temperature detected by the indoor h Heating peak-cut control During heating operation, the temperature detected by is used for the heating peak-cut control (operation halt 	eat exchanger thermistor. the indoor heat exchanger thermistor
Error Decision Conditions	 Freeze-up protection control During cooling operation, the indoor heat exchanger te Heating peak-cut control During heating operation, the indoor heat exchanger te 	
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.95	Image: Caution Be sure to turn off the power switch before connectors, or parts may be damaged. Check the air passage. VES Is there any short circuit? VES NO Check the air filter. Dirty? YES Dirty? VES Dirty? VES Dirty? YES Dirty? NO Check the out accumulation on the indoor heat exchanger MO Check the indoor heat exchanger MO As described in the NO thermistor characteristic NO YES YES	 Provide sufficient air passage. Clean the air filter. Clean the indoor heat exchanger. Replace the indoor heat exchanger thermistor. Replace the indoor unit PCB (control PCB).

4.4 Fan Motor (DC Motor) or Related Abnormality

Error Code	86
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	 Remarkable decrease in power supply voltage 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	64, 69
Method of Error Detection	The temperatures detected by the thermistors determine thermistor errors.
Error Decision Conditions	The voltage between the both ends of the thermistor is 4.96 V and more or 0.04 V and less during compressor operation.
Supposed Causes	 Disconnection of connector Thermistor corresponding to the error code is defective. Defective indoor unit PCB
Troubleshooting Check No.01 Refer to P.95	Image: Normal? Normal? Image: Normal? Normal? <td< th=""></td<>

१५: Indoor heat exchanger thermistor

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

4.6 Refrigerant Shortage

Error Code					
Method of Error Detection	Refrigerant shortage running frequency. I	•	U 1		nd the compressor than the normal value.
Error Decision Conditions	The following condit < RX50/60G2V1B, 7 ◆ Input current ≤ A ◆ Output frequency	'1 class> A × output frequen			
		A (–)	B (A)	C (Hz)]
	RX50/60G2V1B	18/1000	0.7	55	
	71 class	27/1000	2.0	40	7

<RX50/60G2V1B9, RX50/60G3V1B, RX60G4V1B>

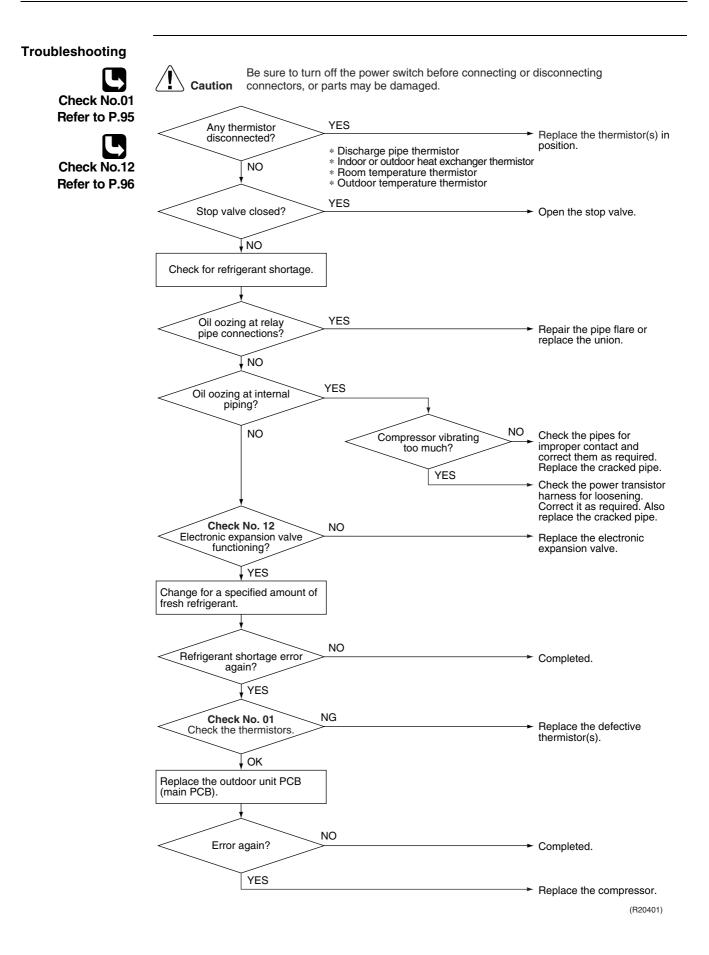
- Input current × input voltage ≤ D × output frequency + E
- Output frequency > F

	D (–)	E (W)	F (Hz)
RX50/60G2V1B9 RX50/60G3V1B RX60G4V1B	2000/256	-181	55

- 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 electronic expansion valve

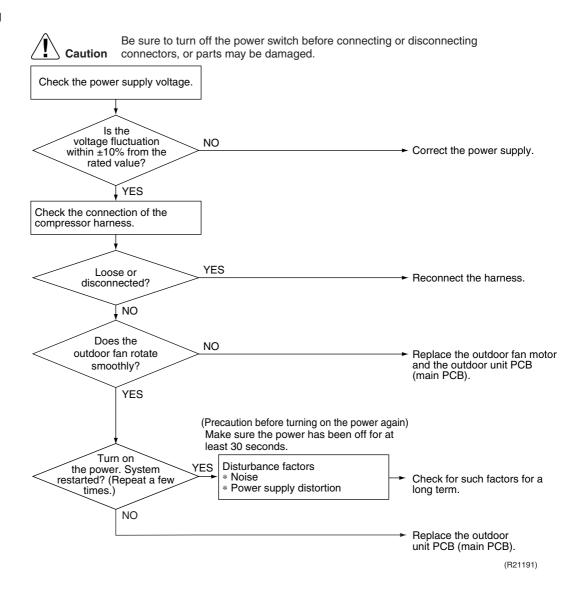


4.7 Low-voltage Detection or Over-voltage Detection

Error Code	
Method of Error	Low-voltage detection:
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	Low-voltage detection:
Conditions	The voltage detected by the DC voltage detection circuit is below 150 ~ 200 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 PAM control part
	Disconnection of compressor harness
	Short circuit inside the fan motor winding
	■ Noise
	Momentary drop of voltage
	Momentary power failure

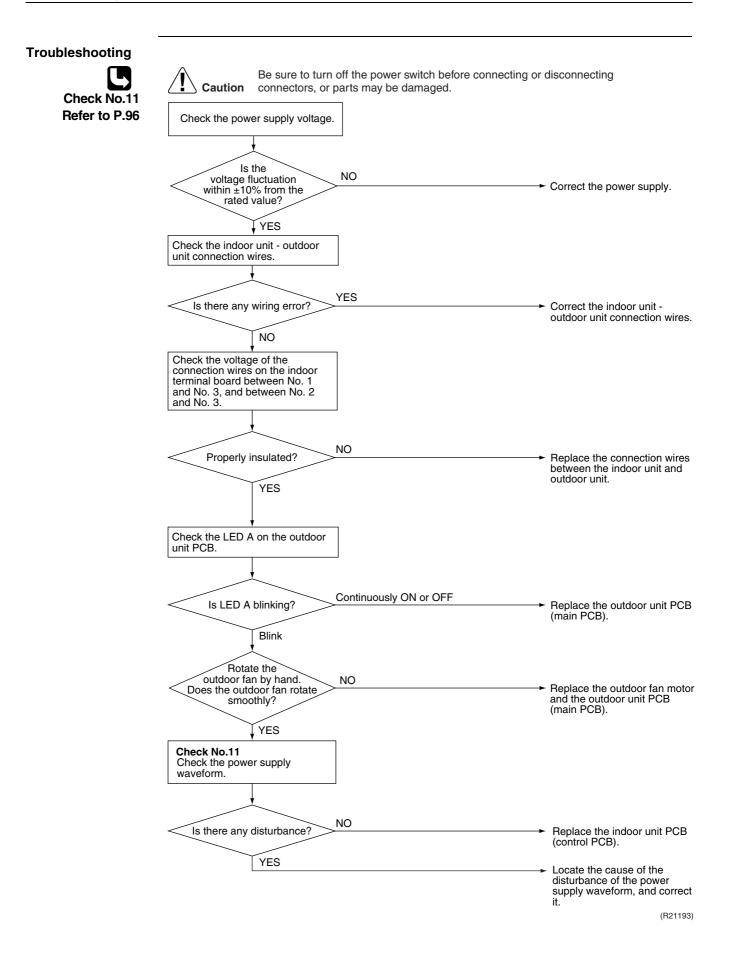
Defective outdoor unit PCB

Troubleshooting



4.8 Signal Transmission Error (Between Indoor Unit and Outdoor Unit)

Error Code	23
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	 Power supply voltage is not as specified. Reduction of power supply voltage Wiring error Breaking of the connecting 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



4.9 Signal Transmission Error on Outdoor Unit PCB (RX50/60G2V1B, 71 Class Only)

Error Code	
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: No for the second se

4.10 Unspecified Voltage (Between Indoor Unit and Outdoor Unit)

Error Code	UR
Method of Error Detection	The supply power is detected for its requirements (pair type is different from multi type) by the indoor / outdoor transmission signal.
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: No connecting with the connecting with the connecting with the connecting or disconnecting or disconnecting connecting connectors, or parts may be damaged. Image: No connecting with the connection.

YES

Check the code numbers (2P012345, for example) of the indoor and outdoor unit PCB with the Parts List. If not matched, change for the correct PCB.

(R20435)

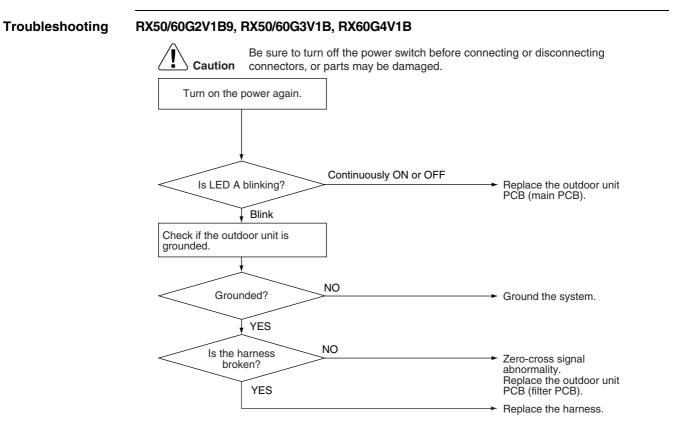
4.11 Outdoor Unit PCB Abnormality

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 drop of voltage Momentary power failure
Troubleshooting	RX50/60G2V1B, 71 class Leven to turn off the power switch before connecting or disconnecting connectors, or parts may be damaged. Turn on the power again. Unum on the power again. LED A blinking? Blink Check if the outdoor unit is grounded. Check if the outdoor unit is
	Grounded? NO Ground the system.

YES

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

(R22035)

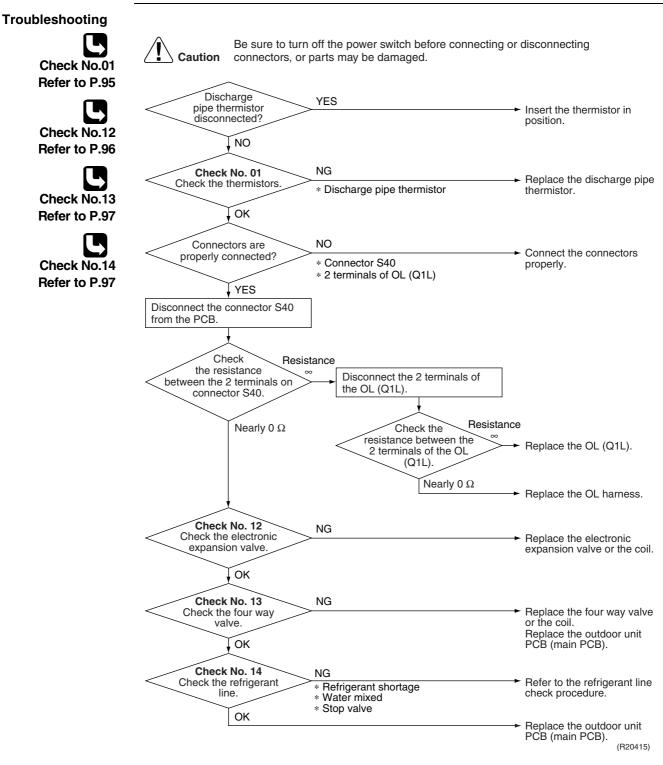


(R22036)

4.12 OL Activation (Compressor Overload)

Error Code	A compressor overload is detected through compressor OL.		
Method of Error Detection			
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 electronic expansion valve or coil		
	Defective four way valve or coil		
	Defective outdoor unit PCB		
	Refrigerant shortage		
	Water mixed in refrigerant		

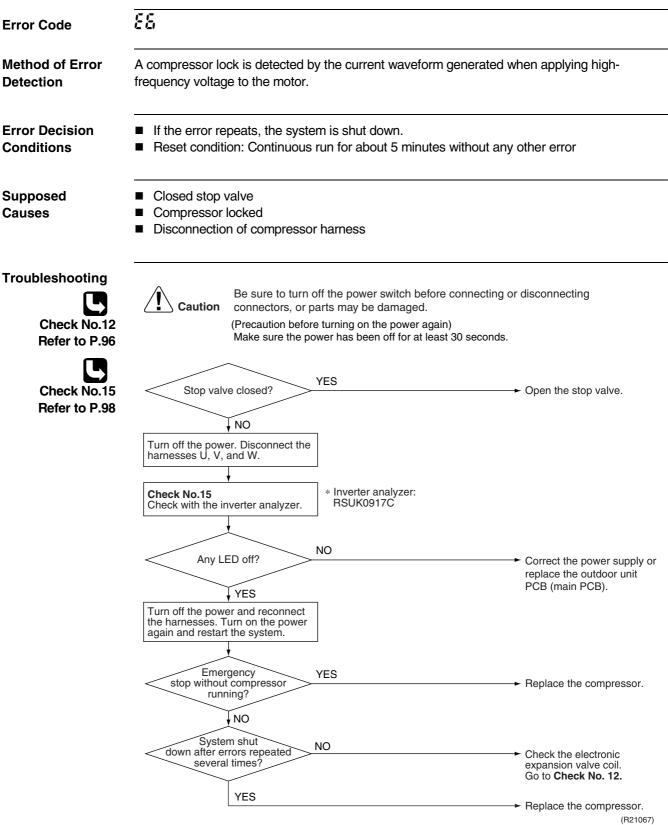
Defective stop valve



Note:

OL (Q1L) activating temperature: $120 \sim 130^{\circ}$ C (depending on the model) OL (Q1L) recovery temperature: 95° C

4.13 Compressor Lock



4.14 DC Fan Lock

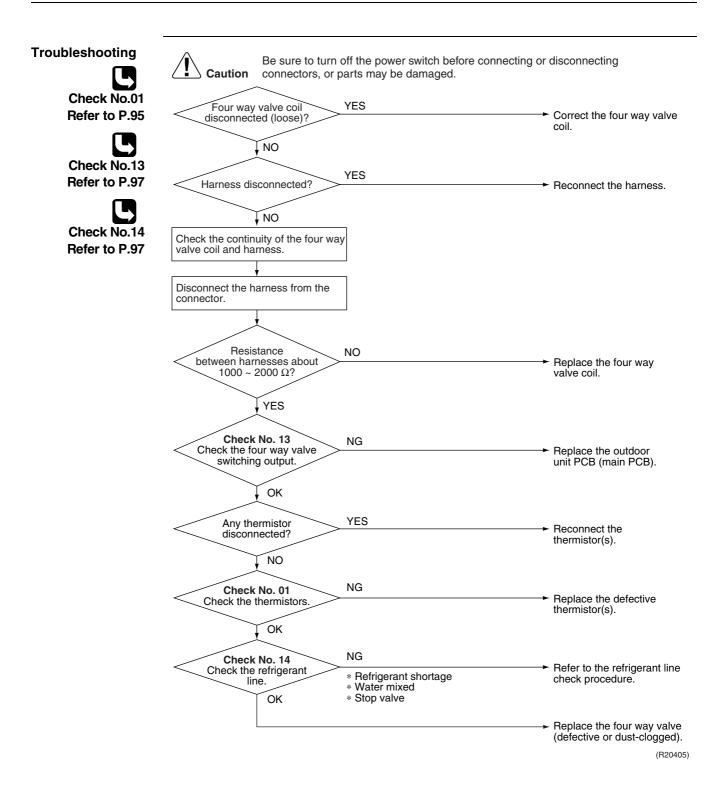
Error Code	£7	
Method of Error Detection	An error is determined with the high-voltage fan motor rotation spe	ed detected by the Hall IC.
Error Decision Conditions	 The fan does not start in 30 seconds even when the fan motor If the error repeats, the system is shut down. Reset condition: Continuous run for about 5 minutes without an 	-
Supposed Causes	 Disconnection of the fan motor Foreign matter stuck in the fan Defective fan motor Defective outdoor unit PCB 	
Troubleshooting	Caution Be sure to turn off the power switch before connecting connectors, or parts may be damaged.	or disconnecting
Check No.16 Refer to P.99	Fan motor connector YES disconnected?	 Turn off the power and reconnect the connector.
	Foreign matters in or YES around the fan?	 Remove the foreign matters.
	Turn on the power.	
	Fan rotates smoothly? YES Check No. 16 Check the rotation pulse input on the outdoor unit PCB (main PCB).	 Replace the outdoor fan motor.
	Pulse signal generated? NO Is the fuse (★) for the fan motor blown?	Replace the outdoor fan motor.
		 Replace the fuse. Replace the outdoor unit PCB (main PCB). (R21669)
	 ★ Fuse RX50/60G2V1B, 71 class FU3 RX50/60G2V1B9, RX50/60G3V1B, RX60G4V1B FU2 	

4.15 Input Overcurrent Detection

•	<u></u>	
Error Code	£8 	
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 20 A for 2.5 seconds with the compresso (The upper limit of the current decreases when the outdoor temperat level.)	-
Supposed Causes	 Outdoor temperature is out of operation range. Defective compressor Defective power module Defective outdoor unit PCB Short circuit 	
Troubleshooting Check No.15 Refer to P.98 Check No.17 Refer to P.100 Check No.18 Refer to P.100	Be sure to turn off the power switch before connecting or connectors, or parts may be damaged. * An input overcurrent may result from wrong internal wiring. If the system is int overcurrent after the wires have been disconnected and reconnected for part wiring again. Check No. 17 Check No. 17 Check the installation condition. Start operation and measure the input current flowing above its stop level? VES Turn off the power and disconnect the harnesses U, V, and W. Check No. 15 Check with the inverter analyzer. Any LED off? VES Turn off the power, and reconnect the harnesses. Turn on the power	errupted by an input
	again and start operation. Check No. 18 Check the discharge pressure.	(R21863)

4.16 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 minute after operating for 10 minutes. <cooling dry=""> $A - B < -5^{\circ}C$ <heating> $B - A < -5^{\circ}C$</heating></cooling>	
	 A: Room thermistor temperature B: Indoor heat exchanger temperature 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 	



4.17 Discharge Pipe Temperature Control

Error Code	F3

Method of Error Detection

Conditions

Error Decision If the temperature

■ If the temperature detected by the discharge pipe thermistor rises above **A**°C, the compressor stops.

An error is determined with the temperature detected by the discharge pipe thermistor.

■ The error is cleared when the discharge pipe temperature has dropped below **B**°C.

	A (°C)	B (°C)
50/60 class	110	95
71 class	120	107

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

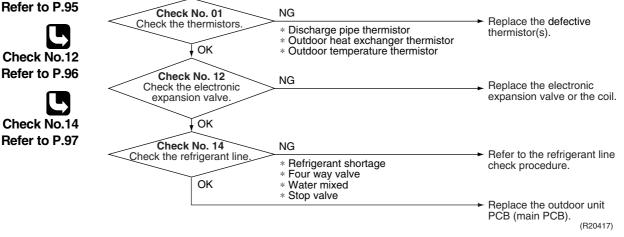
Supposed Causes

- Defective discharge pipe thermistor (Defective outdoor beat exchanger is)
- (Defective outdoor heat exchanger thermistor or outdoor temperature thermistor)
- Defective electronic expansion valve or coil
- Refrigerant shortage
- Defective four way valve
- Water mixed in refrigerant
- Defective stop valve
- Defective outdoor unit PCB

Troubleshooting



Be sure to turn off the power switch before connecting or disconnecting connectors, or parts may be damaged.



4.18 High Pressure Control in Cooling

Error Code	F8		
Method of Error Detection	High-pressure control (operation halt, frequency drop, etc.) is activated in cooling operation if the temperature sensed by the outdoor heat exchanger thermistor exceeds the limit.		
Error Decision Conditions	 The temperature sensed by the outdoor heat exchanger thermistor rises above about 60 ~ 65°C (depending on the model). The error is cleared when the temperature drops below about 50°C. 		
Supposed Causes	 The installation space is not large enough. Dirty outdoor heat exchanger Defective outdoor fan motor Defective stop valve Defective electronic expansion valve or coil Defective outdoor heat exchanger thermistor Defective outdoor unit PCB 		
Troubleshooting Check No.01 Refer to P.95	Caution Be sure to turn off the power switch before contended on the connectors, or parts may be damaged.	necting or disconnecting	
Check No.12 Refer to P.96	Check No. 17 NG Check the installation condition.	← Change the installation location or direction.	
Check No.17 Refer to P.100	OK Check No. 19 Check the outdoor fan.	Clean the outdoor heat exchanger. Replace the outdoor fan motor.	
Check No.18 Refer to P.100	OK Check No. 18 NG	Reconnect the connector or fan motor lead wires.	
Check No.19	Check the discharge ressure.	→ Replace the stop valve.	
Refer to P.101	Check No. 12 Check the electronic expansion valve. OK	► Replace the electronic expansion valve or the coil. Replace the outdoor unit PCB (main PCB).	
	Check No. 01 Check the outdoor heat exchanger thermistor. OK	Replace the outdoor heat exchanger thermistor.	
		► Replace the outdoor unit PCB (main PCB). (R20418)	

4.19 Compressor System Sensor Abnormality 4.19.1 RX50/60G2V1B, 71 Class

Error Code			
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	 The power supply voltage and the DC voltage is obviously low or high. The compressor current does not run when the compressor starts. 		
Supposed Causes	 Disconnection of reactor Disconnection of compressor Defective outdoor unit PCB Defective compressor 	harness	
Troubleshooting	Caution connectors, or pa Turn off the power. Check the connection of the reactor. Connection OK? YES Check the connection of the compressor. Connection OK? YES Check the reactor. 10 Ω or less? YES Check the compressor.	ff the power switch before connecting or arts may be damaged. NO NO Disconnect the reactor from the outdoor unit PCB and measure the resistance value between reactor terminals with multimeter. NO Disconnect the compressor relay harness from the outdoor unit PCB and measure the resistance value between the each 3 terminals of the compressor with multimeter. NO	disconnecting Connect the reactor properly. Connect the compressor properly. Replace the compressor or the compressor relay harness. Restart the operation again and if the error occurs again, replace the outdoor unit PCB (main PCB). (R20419)

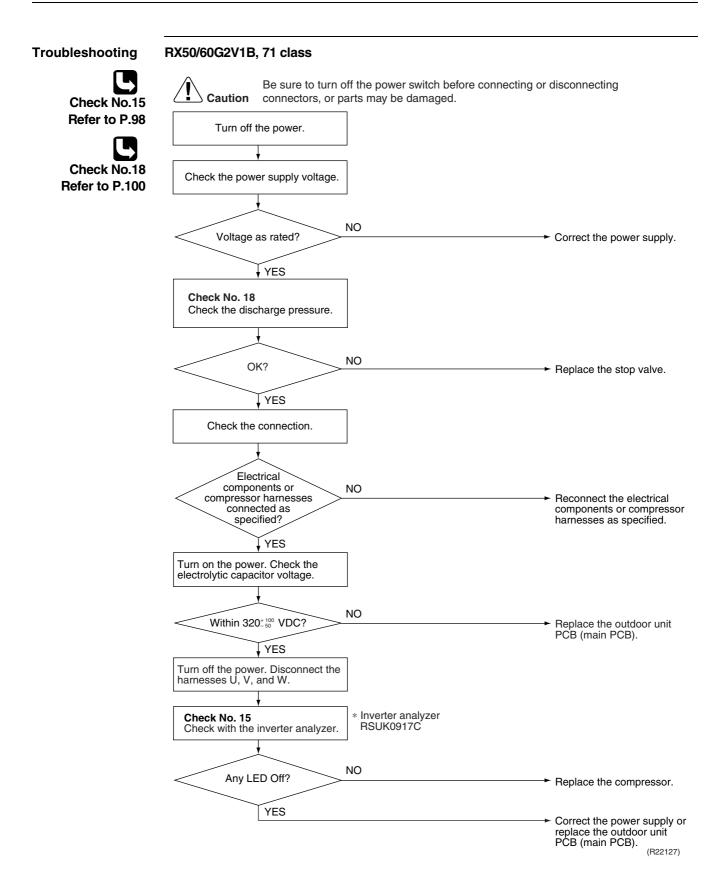
4.19.2 RX50/60G2V1B9, RX50/60G3V1B, RX60G4V1B

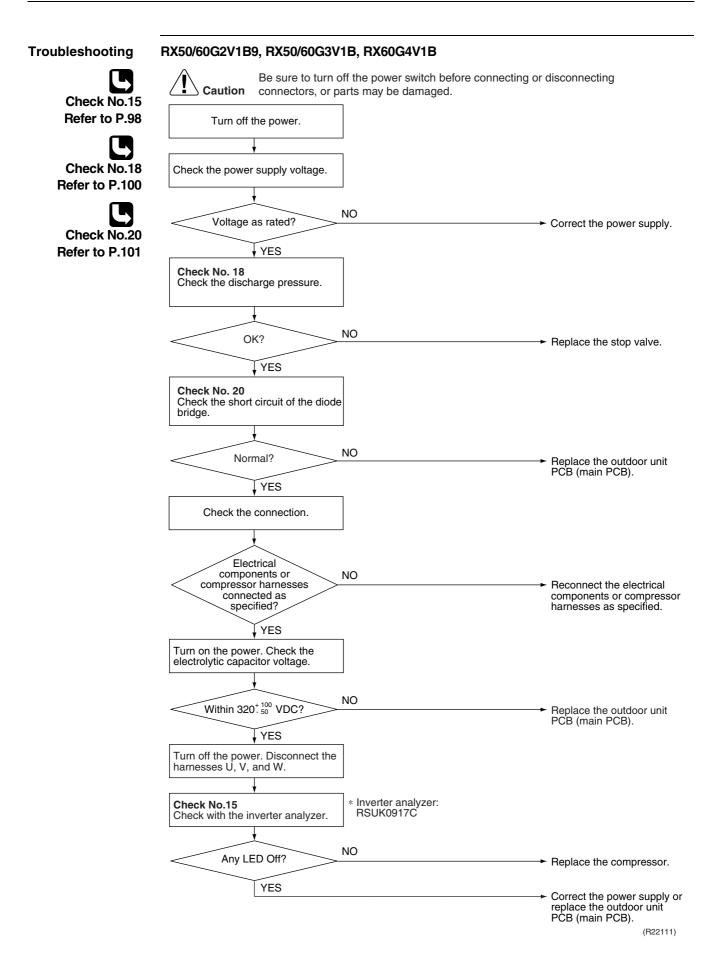
Error Code	88			
Method of Error Detection	The system checks the DC current before the compressor starts.			
Error Decision Conditions	 The voltage converted from the DC current before compo.5 ~ 4.5 V. The DC voltage before compressor start-up is below 50 			
Supposed Causes	Broken or disconnected harnessDefective outdoor unit PCB			
Troubleshooting	Be sure to turn off the power switch before contended on the connectors, or parts may be damaged. Check the harness for the compressor. Is the harness broken? VES VES Turn off the power. Then, turn on the power to restart the system.	necting or disconnecting		
	Restart operation NO and error displayed again? YES	 No problem. Keep on running. Replace the outdoor unit PCB (main PCB). (R21670) 		

4.20 Position Sensor Abnormality

Error Code	8
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 5 minutes without any other error
Supposed Causes	 Power supply voltage is not as specified. Disconnection of the compressor harness Defective compressor Defective outdoor unit PCB Start-up failure caused by the closed stop valve

■ Input voltage is outside the specified range.

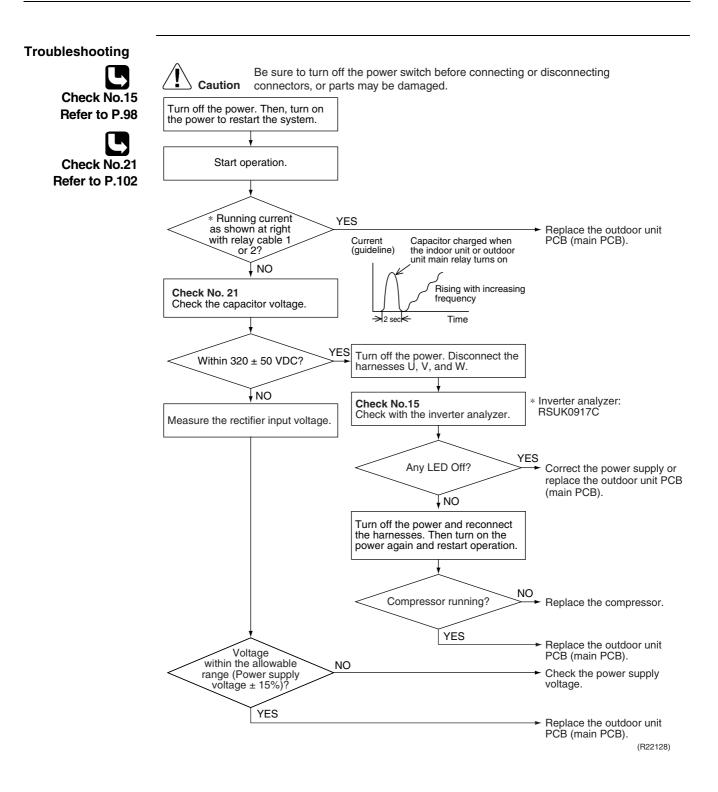




4.21 CT or Related Abnormality (RX50/60G2V1B, 71 Class Only)

Error Code	X8			
Method of Error Detection	A CT or related error detected input curren	•	hecking the	compressor running frequency and CT-
Error Decision Conditions	 The compressor r B A. 		-	an A Hz, and the CT input current is less than \Box
		A (Hz)	B (A)	
	RX50/60G2V1B	55	0.5	
	71 class	32	0.5	7
	If the error repeatsReset condition: 0	-		minutes without any other error
Supposed	 Defective power n 	nodule		
Causes	 Broken or disconr 	nected wiring		
	 Defective reactor 			

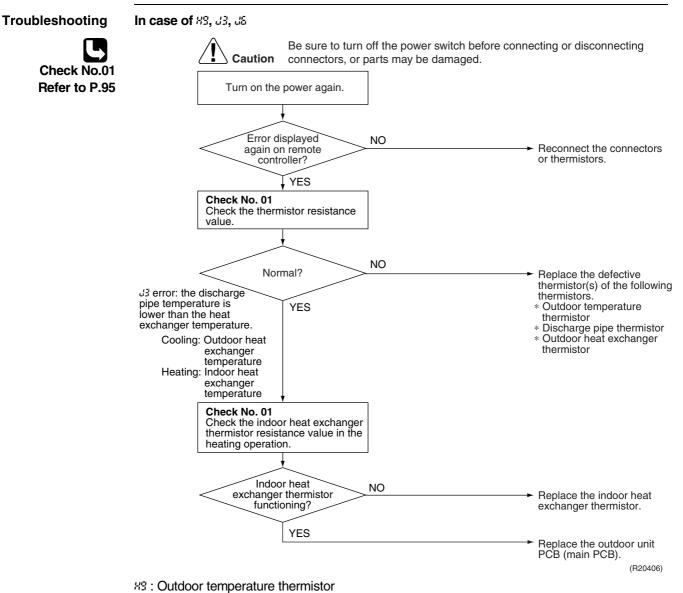
Defective outdoor unit PCB



4.22 Thermistor or Related Abnormality (Outdoor Unit)

Error Code	<u>89, 33, 36, 89</u>		
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 voltage between the both ends of the thermistor is above 4.96 V or below 0.04 V with the power on. <i>J</i> error is judged if the discharge pipe temperature is lower than the heat exchanger temperature. 		
Supposed Causes	 Disconnection of the connector for the thermistor Thermistor corresponding to the error code is defective. Defective heat exchanger thermistor in the case of J3 error (outdoor heat exchanger thermistor in cooling operation, or indoor heat exchanger thermistor in heating operation) Defective outdoor unit PCB 		
Troubleshooting	In case of PK		
	Caution Be sure to turn off the power switch before connecting or disconnecting connectors, or parts may be damaged.		
	Replace the outdoor unit PCB (main PCB).		

PY: Radiation fin thermistor



d3 : Discharge pipe thermistor

45 : Outdoor heat exchanger thermistor

4.23 Electrical Box Temperature Rise

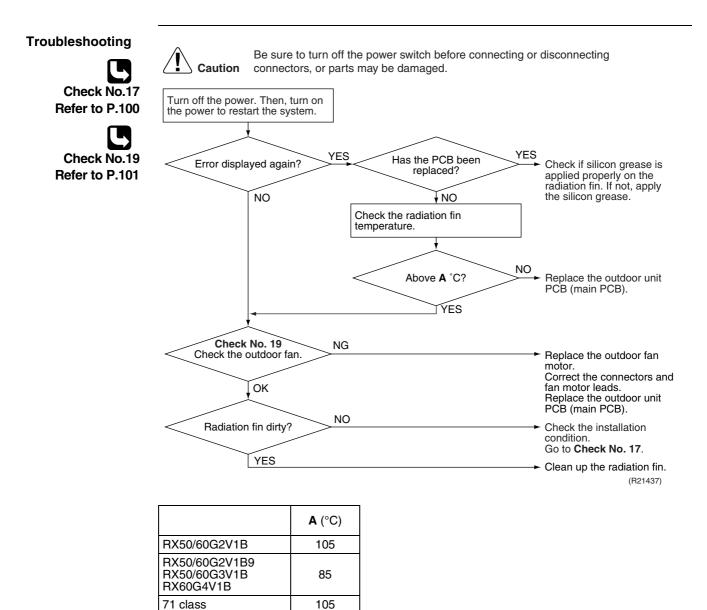
				-	
Error Code	13				
Method of Error Detection	An electrical box tempe compressor off.	rature rise is	detected by	/ checking the r	adiation fin thermistor with the
Error Decision Conditions	 With the compresso The error is cleared To cool the electrica rises above C°C and 	when the rad	diation fin te ts, the outdo	mperature drop or fan starts wh	
		A (°C)	B (°C)	C (°C)	
	RX50/60G2V1B	95	80	85	
	RX50/60G2V1B9 RX50/60G3V1B RX60G4V1B	122	64	113	
	71 class	100	70	85	
Causes	 Short circuit Defective radiation f Disconnection of con Defective outdoor un 	nnector			
Troubleshooting					ting or disconnecting
Check No.17		ctors, or parts	may be dama	aged.	
Refer to P.100	Turn off the power. Then the power to restart the s	, turn on ystem.		To cool the e	WARNING
				fin temperat	starts when the radiation ure rises above C °C. The stops when the radiation
Check No.19					ure drops below B °C.
Refer to P.101	Error again or outd fan activated?	oor YES	5		
	NO			Ļ	
		ſ	Check the rad	iation fin	
		Ĺ	temperature.	Ļ	
					NO
			Ab	ove A°C?	Replace the outdoor unit PCB (main PCB).
	-			YES	
	Check No. 19 Check the outdoor	fan.			→ Replace the outdoor fan
	ОК				motor. Correct the connectors and fan motor lead wire. Replace the outdoor unit PCB (main PCB).
	Radiation fin dirty	NO NO			Check the installation
					Go to Check No. 17 .
	YES				← Clean up the radiation fin.
					(R21436)

4.24 Radiation Fin Temperature Rise

Error Code	14			
Method of Error Detection	A radiation fin temperat compressor on.	ure rise is de	etected by ch	necking the radiation fin thermistor with the
Error Decision Conditions	The error is clearedIf the error repeats,	when the rac the system is	diation fin tei s shut down.	pressor on is above A °C. mperature drops below B °C.) minutes without any other error
		A (°C)	B (°C)	
	RX50/60G2V1B	105	99	
	RX50/60G2V1B9 RX50/60G3V1B RX60G4V1B	85	56	
	71 class	105	97	

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.

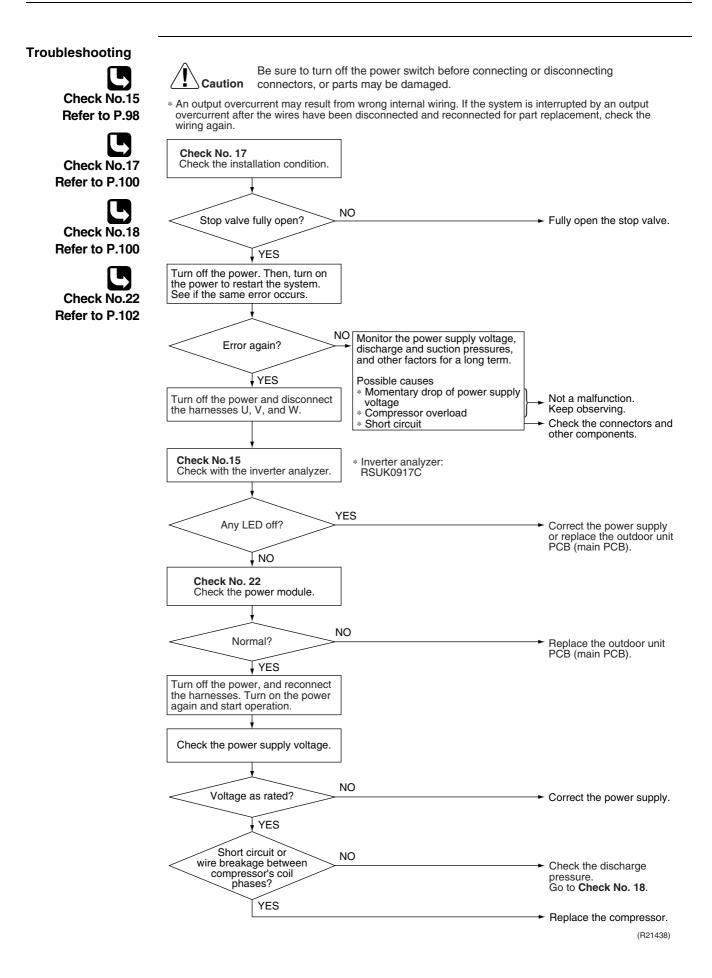




Note: Refer to Silicon Grease on Power Transistor / Diode Bridge on page 111 for detail.

4.25 Output Overcurrent Detection

Error Code	٤.5
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 rotation 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 5 minutes 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 Power supply voltage is not as specified. Defective compressor



5. Check5.1 Thermistor Resistance Check

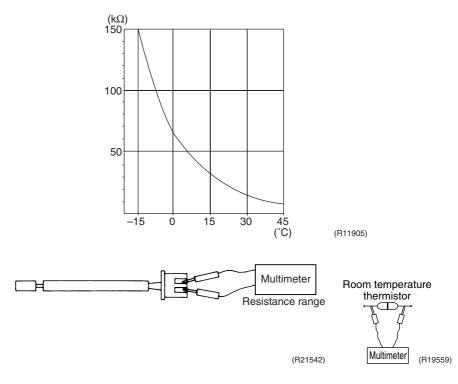
Check No.01

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

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)

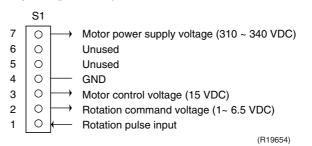


- When the room temperature thermistor is soldered on a PCB, remove the PCB from the control PCB to measure the resistance.
- When the connector of indoor heat exchanger thermistor is soldered on a PCB, remove the thermistor and measure the resistance.

5.2 Indoor 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

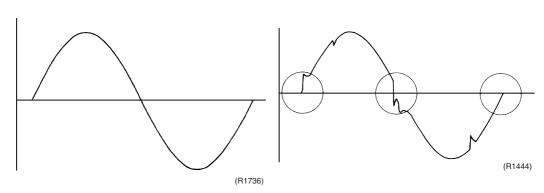
Check No.11

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

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



Fig.2

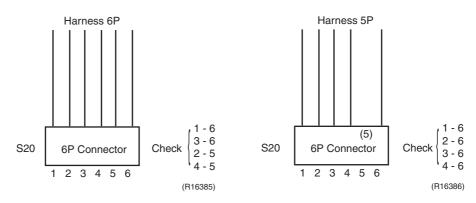


5.4 Electronic Expansion Valve Check

Check No.12

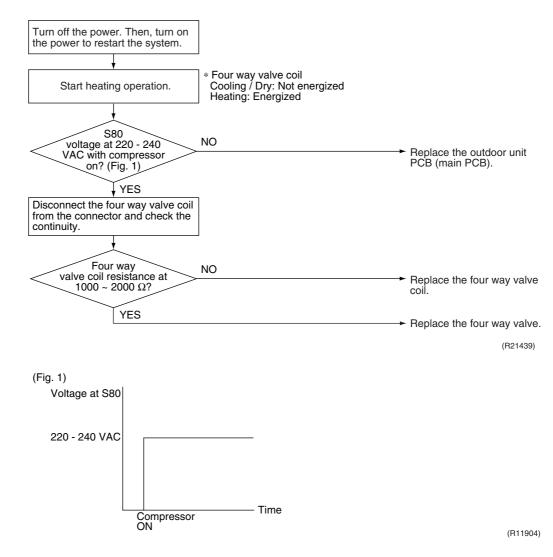
Conduct the followings to check the electronic expansion valve (EV). 1. Check if the EV connector is correctly connected to the PCB.

- Turn the power off and on again, and check if the EV generates a latching sound.
- 3. If the EV does not generate a latching sound in the above step 2, disconnect the connector and check the continuity using a multimeter.
- 4. Check the continuity between the pins 1 6, 3 6, 2 5, 4 5 (between the pins 1 6, 2 6, 3 6, 4 6 for the harness 5P models). 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.



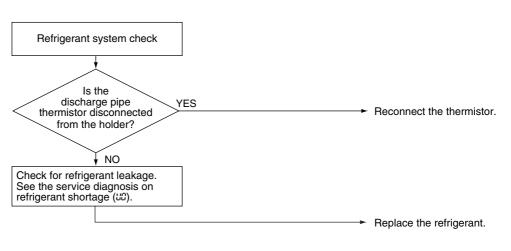
5.5 Four Way Valve Performance Check

Check No.13



5.6 Inverter Unit 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

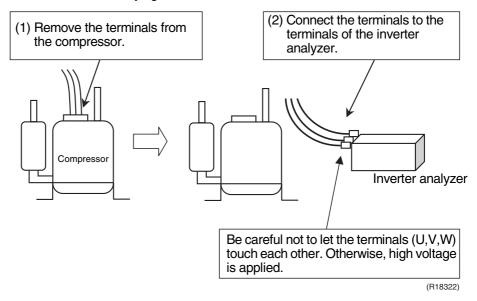
Be sure to turn the power off.

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 button for 5 seconds.

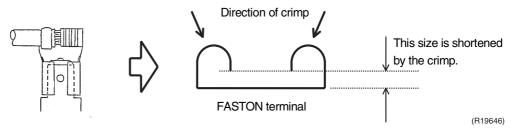
- (Refer to page 106 for the position.)
- \rightarrow Power transistor test operation starts.

■ 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

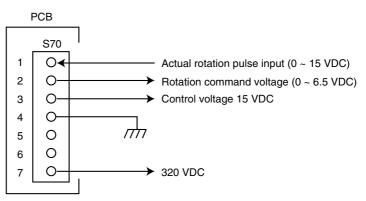
Check No.16

Make sure that the voltage of $320 \frac{+100}{-50}$ 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 ~ 6.5 VDC.
- 5. Keep operation off and power off. Connect the connector S70.
- Check whether 4 pulses (0 ~ 15 VDC) are input 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.

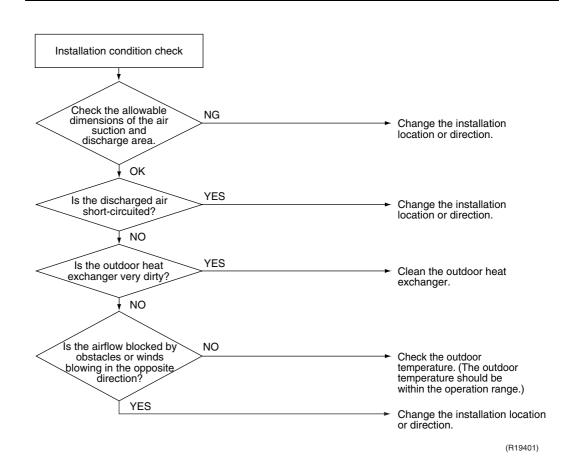
- If NG in step 2 \rightarrow Defective PCB \rightarrow Replace the outdoor unit PCB (main PCB).
- If NG in step 4 \rightarrow Defective Hall IC \rightarrow Replace the outdoor fan motor.
- If OK in both steps 2 and 4
- \rightarrow Replace the outdoor unit PCB (main PCB).



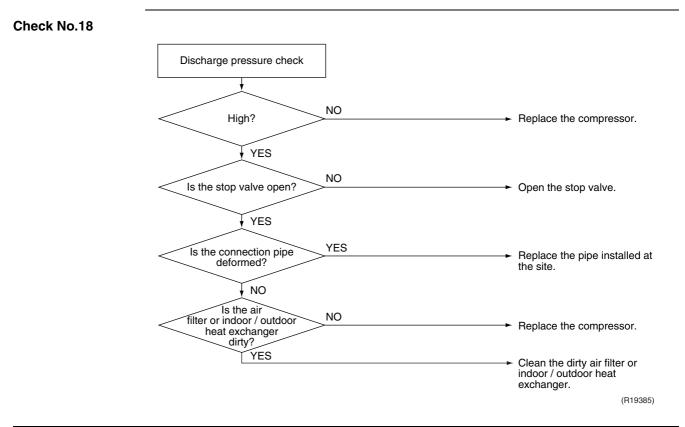
(R19655)

5.9 Installation Condition Check

Check No.17

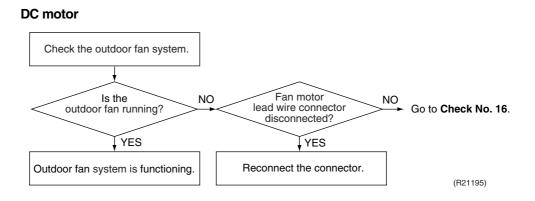


5.10 Discharge Pressure Check



5.11 Outdoor Fan System Check

Check No.19



5.12 Main Circuit Short Check

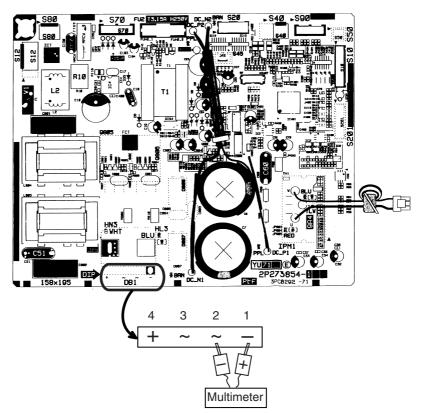
Check No.20

RX50/60G2V1B9, RX50/60G3V1B, RX60G4V1B only

Check to make sure that the voltage between (+) and (–) of the diode bridge (DB1) is about 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.

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



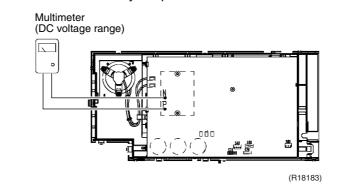
(R19560)

5.13 Capacitor Voltage Check

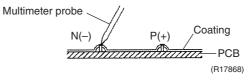
Check No.21

RX50/60G2V1B, 71 class 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.



- To prevent an electrical shock, use a multimeter to check that the voltage between P (+) and N (-) is 50 V or less.
- The surface of the test points (P, N) may be covered with the coating. Be sure to make firm contact between the multimeter probes and the test points.



5.14 Power Module Check

Check No.22

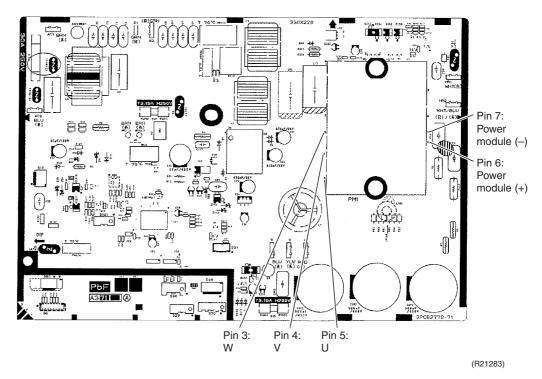
Check to make sure that the voltage between (+) and (–) of the power module is about 0 V before checking.

- 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 multimeter. Evaluate the measurement results referring to the following table.

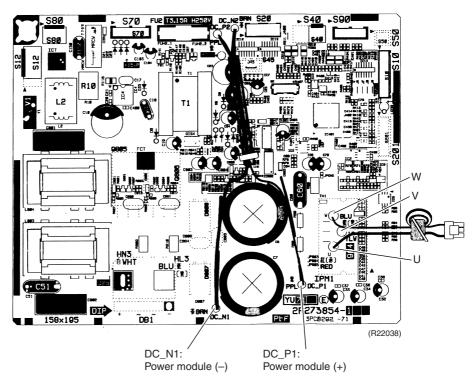
Positive terminal (+) of digital multimeter	Power module (+)	UVW	Power module (–)	UVW
Negative terminal (–) of digital multimeter	UVW	Power module (+)	UVW	Power module (–)
Resistance is OK.	several k Ω ~ several M Ω			
Resistance is NG.	0 Ω or ∞			

RX50/60G2V1B, 71 class

* The illustration is for 71 class as representative.



RX50/60G2V1B9, RX50/60G3V1B, RX60G4V1B



Part 7 Trial Operation and Field Settings

1.	Pump Down Operation	105	
2.	Forced Cooling Operation10		
3.	Trial Operation	107	
4.	Field Settings	108	
	4.1 When 2 Units are installed in 1 Room	108	
	4.2 Facility Setting (Cooling at Low Outdoor Temperature)	109	
	4.3 Jumper and Switch Settings	110	
5.	Silicon Grease on Power Transistor / Diode Bridge	111	

1. Pump Down Operation

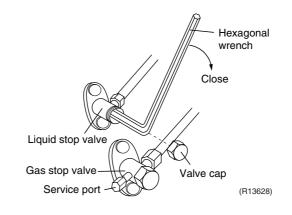
Outline

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

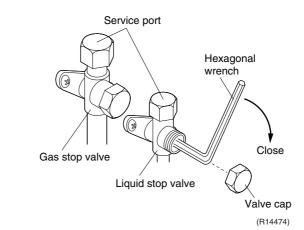
Detail

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

50/60 class







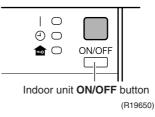


Refer to page 106 for forced cooling operation.

2. Forced Cooling Operation

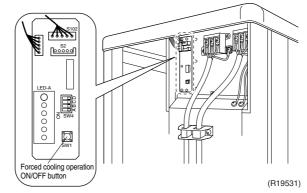
Item	Forced Cooling
Conditions	The forced cooling operation is allowed when both of the following conditions are met.
	 The outdoor unit is not abnormal and not in the 3-minute standby mode. The outdoor unit is not operating.
Start	The forced cooling operation starts when any of the following conditions are fulfilled.
	 Press the forced cooling operation ON/OFF button (SW1) on the indoor unit for 5 seconds. Press the forced cooling operation ON/OFF button (SW1) on the outdoor unit within around 3 minutes after power is supplied.
Command frequency	50/60 class: 66 Hz 71 class: 31 Hz
End	 The forced cooling operation ends when any of the following conditions are fulfilled. The operation ends automatically after 15 minutes. Press the forced cooling operation ON/OFF button (SW1) on the indoor unit again. Press the ON/OFF button on the remote controller. Press the forced cooling operation ON/OFF button (SW1) on the outdoor unit.
Others	Protection functions have priority over all other functions during forced cooling operation.

Indoor Unit

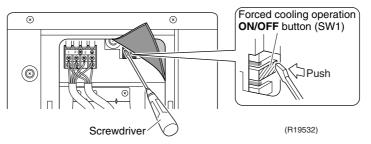


Outdoor Unit: RX50/60G2V1B, 71 class

* The illustration is for 71 class as representative.



Outdoor Unit: RX50/60G2V1B9, RX50/60G3V1B, RX60G4V1B



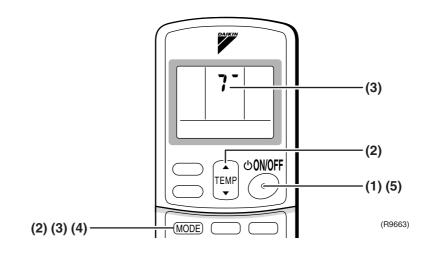


When pressing the button, do not touch the terminal board. It has a high voltage and may cause electric shock.

3. Trial Operation

Outline	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. Trial operation should be carried out in either cooling or heating operation.		
Detail	 Measure the power supply voltage and make sure that it falls within the specified range. 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 operation). For protection, the system does not start for 3 minutes after it is turned off. 		
	 ARC433 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) Press the **MODE** button twice.
- (? appears on the display to indicate that trial operation is selected.)
- (4) Press the **MODE** button and select operation mode.
- (5) Trial operation terminates in about 30 minutes and switches into normal mode. To quit a trial operation, press the **ON/OFF** button.



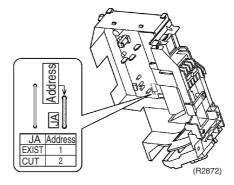
4. Field Settings4.1 When 2 Units are installed in 1 Room

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

Cut the address setting jumper JA on the control PCB.



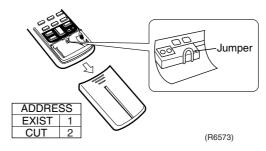


Replace the PCB if you accidentally cut a wrong jumper.

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

Wireless Remote Controller

Cut the address setting jumper.

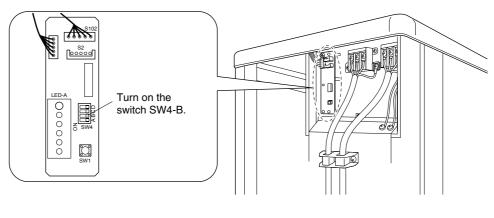


4.2 Facility Setting (Cooling at Low Outdoor Temperature)

Outline

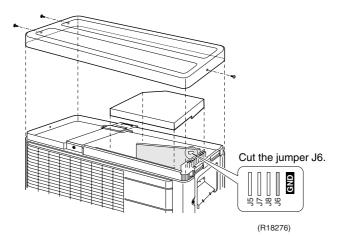
This function is limited only for facilities (the target of air conditioning is equipment (such as computer)). Never use it in a residence or office (the space where there is a human).

RX50/60G2V1B,You can expand the operation range to -15°C by turning on the switch (SW4-B) on the service**71 Class**monitor PCB. If the outdoor temperature falls to -20°C or lower, the operation stops. If the
outdoor temperature rises, the operation starts again.



(R18285)

RX50/60G2V1B9, RX50/60G3V1B, RX60G4V1B You can expand the operation range to -15° C by cutting the jumper (J6) on the outdoor unit PCB. Note that the operation may stop if the outdoor temperature drops below -15° C. If the outdoor temperature rises, the operation starts again.





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.

Caution

- 1. If the outdoor unit is installed where the outdoor heat exchanger of the unit is exposed to direct wind, provide a windbreak wall.
 - Intermittent noises may be produced by the indoor unit due to the outdoor fan turning on and off when using facility settings.
 - 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. Use the indoor unit at the highest level of airflow rate.
 - 5. Cutting the jumper sets the indoor fan tap to the highest position.

4.3 Jumper and Switch Settings

Indoor Unit

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



For the location of the jumper, refer to page 12.

Outdoor Unit

Function	Switch / Jumper	Switch: OFF Jumper: connected (factory setting)	Switch: ON Jumper: cut
Improvement of defrost performance	$\begin{array}{l} RX50/60G2V1B, 71 \ class \rightarrow SW4-C \\ RX50/60G2V1B9 \rightarrow J8 \\ RX50/60G3V1B \rightarrow J8 \\ RX60G4V1B \rightarrow J8 \\ \end{array}$	Standard control	Reinforced control (Ex: The frequency increases, the duration time of defrost lengthens.)



For the location of the switch or jumper, refer to page 15, 17.



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.

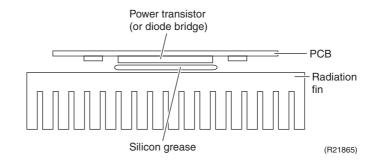
5. Silicon Grease on Power Transistor / Diode Bridge

Outline

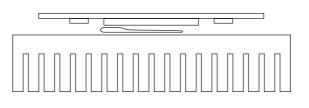
Apply the specified silicon grease to the heat radiation part of a power transistor / diode bridge when you replace an outdoor unit PCB. The silicon grease encourages the heat radiation of a power transistor / diode bridge.

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

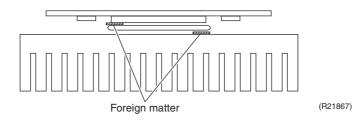


NG: Not evenly applied



(R21866)

■ NG: Foreign matter is stuck.



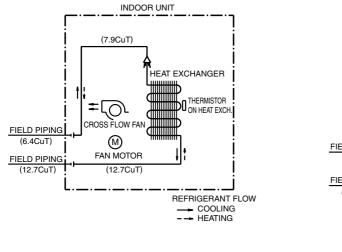
Part 8 Appendix

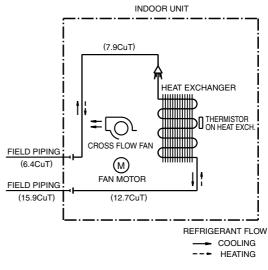
1.	Piping Diagrams	
	1.1 Indoor Unit	
	1.2 Outdoor Unit	
2.	Wiring Diagrams	
	2.1 Indoor Unit	
	2.2 Outdoor Unit	

1. Piping Diagrams 1.1 Indoor Unit

FTX50/60GV1B

FTX71GV1B



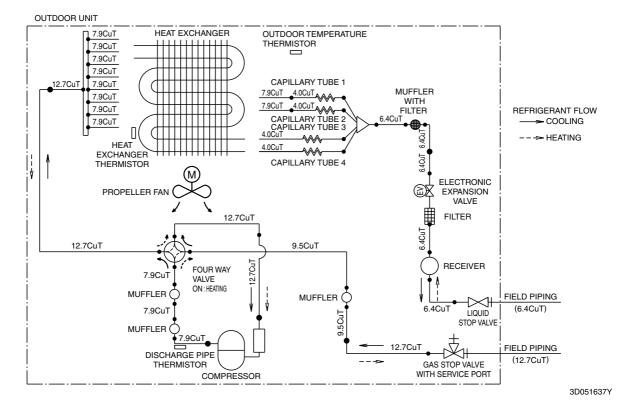


4D040081Y

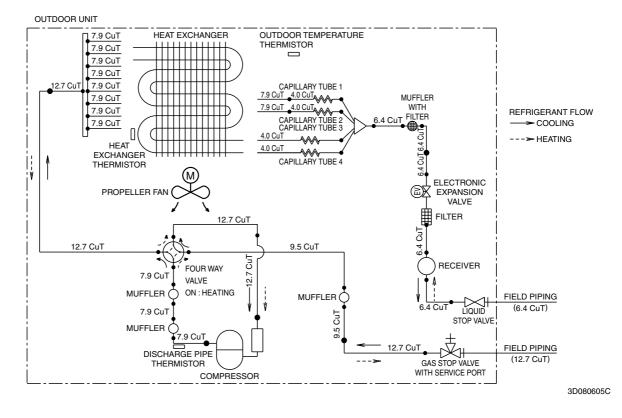
4D040082W

1.2 Outdoor Unit

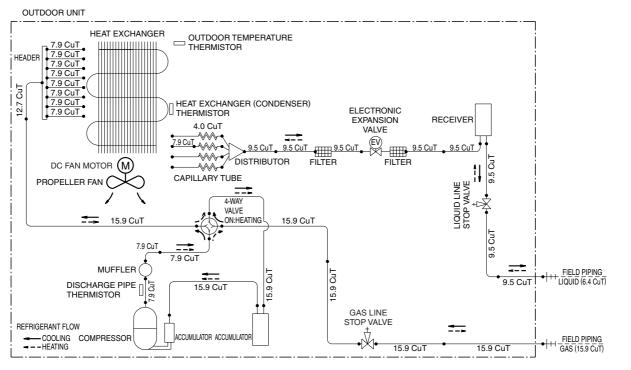
RX50/60G2V1B, RX50/60G2V1B9



RX50/60G3V1B, RX60G4V1B



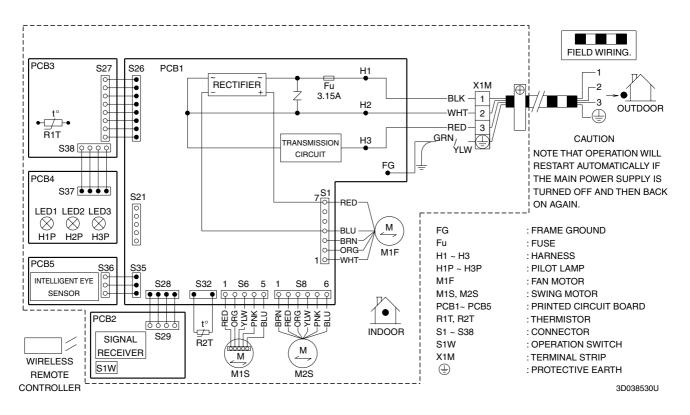
RX71GV1B, RX71GV1B9, RX71GV1B8



3D054593N

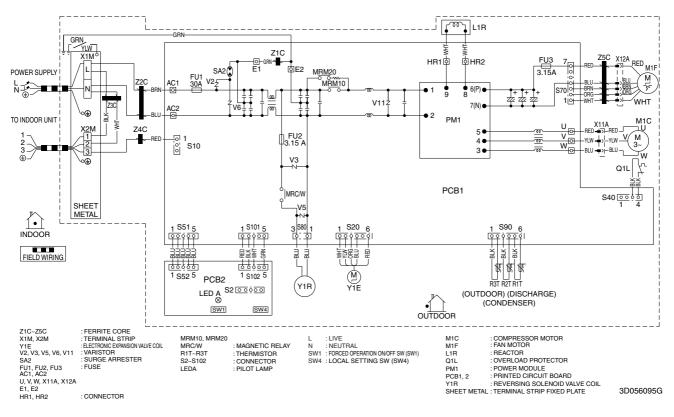
2. Wiring Diagrams 2.1 Indoor Unit

FTX50/60/71GV1B

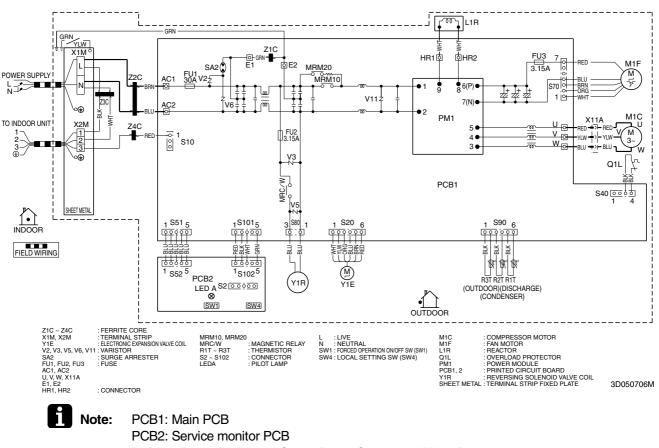


2.2 Outdoor Unit

RX50G2V1B

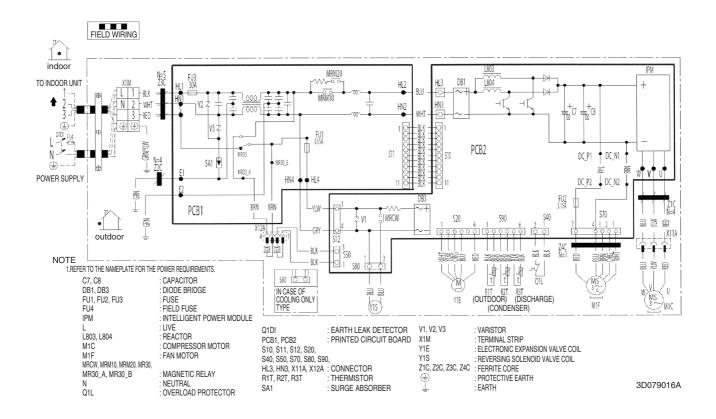


RX60G2V1B

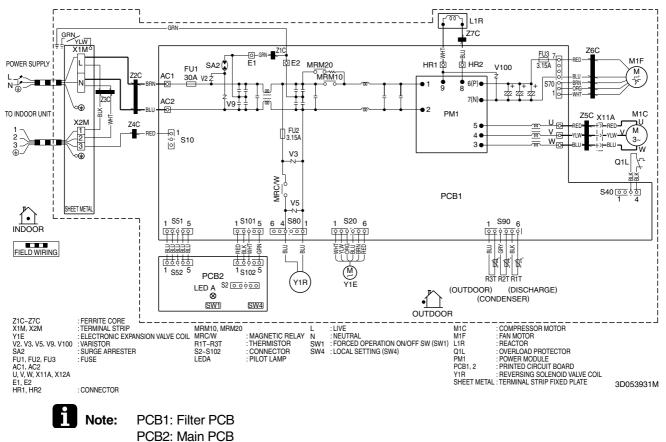


Refer to Part 3 for Printed Circuit Board Connector Wiring Diagram.

RX50/60G2V1B9, RX50/60G3V1B, RX60G4V1B



RX71GV1B, RX71GV1B9, RX71GV1B8



Refer to Part 3 for Printed Circuit Board Connector Wiring Diagram.

Revision History

Month / Year	Version	Revised contents
03 / 2010	SiBE041029	First edition
12 / 2012	SiBE041029_A	Model addition: RX50/60G3V1B, RX71GV1B9
12 / 2013	SiBE041029EB	Model addition: RX71GV1B8
06 / 2015	SiBE041029EC	Model addition: RX50/60G2V1B9, RX60G4V1B



- 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.

Dealer	DAIKIN INDUSTRIES, LTD. Head Office: Umeda Center Bldg., 2-4-12, Nakazaki-Nishi, Kita-ku, Osaka, 530-8323 Japan
	Tokyo Office: JR Shinagawa East Bldg., 2-18-1, Konan, Minato-ku, Tokyo, 108-0075 Japan
	http://www.daikin.com/products/ac/
	©All rights reserved