

Service Manual

Inverter Pair Floor / Ceiling Suspended Dual Type FLK(X)S-BA Series



[Applicable Models]

- Inverter Pair: Cooling Only
- Inverter Pair: Heat Pump

Inverter Pair Floor / Ceiling Suspended Dual Type FLK(X)S-BA Series

●Cooling Only

Indoor Unit

FLKS25BAVMB
FLKS35BAVMB

Outdoor Unit

RKS25E2V1B	RKS25G2V1B
RKS35E2V1B	RKS35G2V1B
	RKS25G2V1B9
	RKS35G2V1B9

●Heat Pump

Indoor Unit

FLXS25BAVMB	FLXS35BAVMB9
FLXS35BAVMB	

Outdoor Unit

RXS25E2V1B	RXS25G2V1B	RXS25J2V1B	RXS25L2V1B
RXS35E2V1B	RXS35G2V1B	RXS35J2V1B	RXS35L2V1B
	RXS25G2V1B9	RXS25K3V1B	RXS25L3V1B
	RXS35G2V1B9	RXS35K2V1B	RXS35L3V1B

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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  **Warning** and  **Caution**. The  **Warning** items are especially important since death or serious injury can result if they are not followed closely. The  **Caution** items can also lead to serious accidents under some conditions if they are not followed. Therefore, be sure to observe all the safety caution items described below.








Pictograms



-  This symbol indicates an item for which caution must be exercised. The pictogram shows the item to which attention must be paid.
-  This symbol indicates a prohibited action. The prohibited item or action is shown in the illustration or near the symbol.
-  This symbol indicates an action that must be taken, or an 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 equipment in a room with fire sources (e.g., naked flames, gas appliances, electric heaters).	
Be sure to disconnect the power cable from the socket before disassembling equipment for repair. Working on 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 inspect the circuits, do not touch any electrically charged sections of the equipment.	
If refrigerant gas is discharged during repair work, do not touch the discharged refrigerant gas. Refrigerant gas may cause frostbite.	
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.	
If refrigerant gas leaks during repair work, ventilate the area. Refrigerant gas may generate toxic gases when it contacts flames.	
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.	







 Warning	
<p>Do not turn the air conditioner on or off by plugging in or unplugging the power cable. Plugging in or unplugging the power cable to operate the equipment may cause an electrical shock or fire.</p>	
<p>Be sure to wear a safety helmet, gloves, and a safety belt when working in a high place (more than 2 m). Insufficient safety measures may cause a fall.</p>	
<p>In case of R-32 / R-410A refrigerant models, be sure to use pipes, flare nuts and tools intended for the exclusive use with 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 or equipment failure.</p>	
<p>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 refrigerant system, an excessively high pressure results, causing equipment damage and injury.</p>	






 Caution	
<p>Do not repair electrical components with wet hands. Working on the equipment with wet hands may cause an electrical shock.</p>	
<p>Do not clean the air conditioner with water. Washing the unit with water may cause an electrical shock.</p>	
<p>Be sure to provide an earth / grounding when repairing the equipment in a humid or wet place, to avoid electrical shocks.</p>	
<p>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.</p>	
<p>Be sure to conduct repair work with appropriate tools. The use of inappropriate tools may cause injury.</p>	
<p>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.</p>	






 Caution	
<p>Conduct welding work in a well-ventilated place. Using a welder in an enclosed room may cause oxygen deficiency.</p>	

1.2 Warnings and Cautions Regarding Safety of Users

 Warning	
<p>Do not store the equipment in a room with fire sources (e.g., naked flames, gas appliances, electric heaters).</p>	
<p>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.</p>	
<p>If the power cable and lead wires are scratched or have deteriorated, be sure to replace them. Damaged cable and wires may cause an electrical shock, excessive heat generation or fire.</p>	
<p>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.</p>	
<p>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.</p>	
<p>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.</p>	
<p>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.</p>	
<p>Do not damage or modify the power cable. Damaged or modified power cables may cause an electrical shock or fire. Placing heavy items on the power cable, or heating or pulling the power cable may damage it.</p>	





 Warning	
<p>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 refrigerant system, an excessively high pressure results, causing equipment damage and injury.</p>	
<p>If the refrigerant gas leaks, be sure to locate the leaking point and repair it before charging the refrigerant. After charging the refrigerant, make sure that there is no leak. If the leaking point cannot be located and the repair work must be stopped, be sure to pump-down, and close the service valve, to prevent refrigerant gas from leaking into the room. Refrigerant gas itself is harmless, but it may generate toxic gases when it contacts flames, such as those from fan type and other heaters, stoves and ranges.</p>	
<p>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 or the installation work is not conducted securely, the equipment may fall and cause injury.</p>	
<p>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 is dusty or has a loose connection, it may cause an electrical shock or fire.</p>	
<p>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.</p>	

 Caution	
<p>Installation of a leakage breaker is necessary in some cases depending on the conditions of the installation site, to prevent electrical shocks.</p>	
<p>Do not install the equipment in a place where there is a possibility of combustible gas leaks. If combustible gas leaks and remains around the unit, it may cause a fire.</p>	
<p>Check to see if parts and wires are mounted and connected properly, and if connections at the soldered or crimped terminals are secure. Improper installation and connections may cause excessive heat generation, fire or an electrical shock.</p>	
<p>If the installation platform or frame has corroded, replace it. A corroded installation platform or frame may cause the unit to fall, resulting in injury.</p>	

 Caution	
<p>Check the earth / grounding, and repair it if the equipment is not properly earthed / grounded. Improper earth / grounding may cause an electrical shock.</p>	
<p>Be sure to measure insulation resistance after the repair, and make sure that the resistance is 1 MΩ or higher. Faulty insulation may cause an electrical shock.</p>	
<p>Be sure to check the drainage of the indoor unit after the repair. Faulty drainage may cause water to enter the room and wet the furniture and floor.</p>	
<p>Do not tilt the unit when removing it. The water inside the unit may spill and wet the furniture and floor.</p>	

2. Icons Used

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

Icon	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 have 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	FLKS25/35BAYMB RKS25/35E2V1B	FLXS25/35BAYMB RXS25/35E2V1B	Category	Functions	FLKS25/35BAYMB RKS25/35E2V1B	FLXS25/35BAYMB RXS25/35E2V1B
Basic Functions	Inverter (with inverter power control)	●	●	Health & Cleanliness	Air-purifying filter	●	●
	Operation limit for cooling (°CDB)	-10 ~ 46 ★	-10 ~ 46		Photocatalytic deodorizing filter	●	●
	Operation limit for heating (°CWB)	—	-15 ~ 18		Air-purifying filter with photocatalytic deodorizing function (option)	●	●
	PAM control	●	●		Titanium apatite photocatalytic air-purifying filter	—	—
	Standby electricity saving	—	—		Air filter (prefilter)	●	●
Compressor	Oval scroll compressor	—	—	Wipe-clean flat panel	—	—	
	Swing compressor	●	●	Washable grille	—	—	
	Rotary compressor	—	—	MOLD PROOF operation	—	—	
	Reluctance DC motor	●	●	Good-sleep cooling operation	—	—	
Comfortable Airflow	Power-airflow flap	—	—	Timer	WEEKLY TIMER operation	—	—
	Power-airflow dual flaps	—	—		24-hour ON/OFF TIMER	●	●
	Power-airflow diffuser	—	—		NIGHT SET mode	●	●
	Wide-angle louvers	—	—	Worry Free (Reliability & Durability)	Auto-restart (after power failure)	●	●
	Auto-swing (up and down)	●	●		Self-diagnosis (digital, LED) display	●	●
	Auto-swing (right and left)	—	—		Wiring error check function	—	—
	3-D airflow	—	—		Anti-corrosion treatment of outdoor heat exchanger	●	●
Comfort Control	Auto fan speed	●	●	Flexibility	Multi-split/split type compatible indoor unit	●	●
	Indoor unit quiet operation	●	●		Flexible power supply correspondence	—	—
	NIGHT QUIET mode (automatic)	—	—		Chargeless	10 m	10 m
	OUTDOOR UNIT QUIET operation (manual)	●	●		Either side drain (right or left)	—	—
	INTELLIGENT EYE operation	—	—		Power selection	—	—
	Quick warming function (preheating control)	—	●		5-room centralized controller (option)	●	●
	Hot-start function	—	●		Remote control adaptor (normal open pulse contact) (option)	●	●
Operation	Automatic defrosting	—	●	Remote Control	Remote control adaptor (normal open contact) (option)	●	●
	Automatic operation	—	●		Remote control adaptor (normal open contact) (option)	●	●
	Program dry operation	●	●		DIII-NET compatible (adaptor) (option)	●	●
Lifestyle Convenience	Fan only	●	●	Remote Controller	Wireless	●	●
	New POWERFUL operation (non-inverter)	—	—		Wired (option)	—	—
	Inverter POWERFUL operation	●	●				
	Priority-room setting	—	—				
	COOL / HEAT mode lock	—	—				
	HOME LEAVE operation	●	●				
	ECONO operation	—	—				
	Indoor unit ON/OFF button	●	●				
	Signal receiving sign	●	●				
R/C with back light	—	—					
	Temperature display	—	—				

Note: ● : Available
— : Not available

★ : Lower limit can be extended by cutting jumper. (Facility use only)
Refer to page 120 for details.

Category	Functions	FLKS25/35BAVMB RKS25/35G2V1B		Category	Functions	FLKS25/35BAVMB RKS25/35G2V1B	
		FLXS25/35BAVMB RXS25/35G2V1B	FLXS25/35BAVMB RXS25/35G2V1B			FLXS25/35BAVMB RXS25/35G2V1B	FLXS25/35BAVMB RXS25/35G2V1B
Basic Functions	Inverter (with inverter power control)	●	●	Health & Cleanliness	Air-purifying filter	●	●
	Operation limit for cooling (°CDB)	-10 ~ 46 ★	-10 ~ 46 ★		Photocatalytic deodorizing filter	●	●
	Operation limit for heating (°CWB)	—	-15 ~ 18		Air-purifying filter with photocatalytic deodorizing function (option)	●	●
	PAM control	●	●		Titanium apatite photocatalytic air-purifying filter	—	—
	Standby electricity saving	—	—		Air filter (prefilter)	●	●
Compressor	Oval scroll compressor	—	—	Wipe-clean flat panel	—	—	
	Swing compressor	●	●	Washable grille	—	—	
	Rotary compressor	—	—	MOLD PROOF operation	—	—	
	Reluctance DC motor	●	●	Good-sleep cooling operation	—	—	
Comfortable Airflow	Power-airflow flap	—	—	Timer	WEEKLY TIMER operation	—	—
	Power-airflow dual flaps	—	—		24-hour ON/OFF TIMER	●	●
	Power-airflow diffuser	—	—		NIGHT SET mode	●	●
	Wide-angle louvers	—	—	Worry Free (Reliability & Durability)	Auto-restart (after power failure)	●	●
	Auto-swing (up and down)	●	●		Self-diagnosis (digital, LED) display	●	●
	Auto-swing (right and left)	—	—		Wiring error check function	—	—
	3-D airflow	—	—		Anti-corrosion treatment of outdoor heat exchanger	●	●
Comfort Control	Auto fan speed	●	●	Flexibility	Multi-split/split type compatible indoor unit	●	●
	Indoor unit quiet operation	●	●		Flexible power supply correspondence	—	—
	NIGHT QUIET mode (automatic)	—	—		Chargeless	10 m	10 m
	OUTDOOR UNIT QUIET operation (manual)	●	●		Either side drain (right or left)	—	—
	INTELLIGENT EYE operation	—	—		Power selection	—	—
	Quick warming function (preheating control)	—	●		5-room centralized controller (option)	●	●
	Hot-start function	—	●		Remote control adaptor (normal open pulse contact) (option)	●	●
	Automatic defrosting	—	●		Remote control adaptor (normal open contact) (option)	●	●
Operation	Automatic operation	—	●	Remote Control	DIII-NET compatible (adaptor) (option)	●	●
	Program dry operation	●	●		Wireless	●	●
	Fan only	●	●		Wired (option)	—	—
Lifestyle Convenience	New POWERFUL operation (non-inverter)	—	—	Remote Controller			
	Inverter POWERFUL operation	●	●				
	Priority-room setting	—	—				
	COOL / HEAT mode lock	—	—				
	HOME LEAVE operation	●	●				
	ECONO operation	—	—				
	Indoor unit ON/OFF button	●	●				
	Signal receiving sign	●	●				
	R/C with back light	—	—				
Temperature display	—	—					

Note: ● : Available
— : Not available

★ : Lower limit can be extended by cutting jumper.
(Facility use only)
Refer to page 120 for details.

Category	Functions	FLKS25/35BAVMB RKS25/35G2V1B9	FLXS25/35BAVMB RXS25/35G2V1B9	Category	Functions	FLKS25/35BAVMB RKS25/35G2V1B9	FLXS25/35BAVMB RXS25/35G2V1B9
Basic Functions	Inverter (with inverter power control)	●	●	Health & Cleanliness	Air-purifying filter	●	●
	Operation limit for cooling (°CDB)	-10 ~ 46 ★	-10 ~ 46 ★		Photocatalytic deodorizing filter	●	●
	Operation limit for heating (°CWB)	—	-15 ~ 18		Air-purifying filter with photocatalytic deodorizing function (option)	●	●
	PAM control	●	●		Titanium apatite photocatalytic air-purifying filter	—	—
	Standby electricity saving	—	—		Air filter (prefilter)	●	●
Compressor	Oval scroll compressor	—	—	Wipe-clean flat panel	—	—	
	Swing compressor	●	●	Washable grille	—	—	
	Rotary compressor	—	—	MOLD PROOF operation	—	—	
	Reluctance DC motor	●	●	Good-sleep cooling operation	—	—	
Comfortable Airflow	Power-airflow flap	—	—	Timer	WEEKLY TIMER operation	—	—
	Power-airflow dual flaps	—	—		24-hour ON/OFF TIMER	●	●
	Power-airflow diffuser	—	—		NIGHT SET mode	●	●
	Wide-angle louvers	—	—	Worry Free (Reliability & Durability)	Auto-restart (after power failure)	●	●
	Auto-swing (up and down)	●	●		Self-diagnosis (digital, LED) display	●	●
	Auto-swing (right and left)	—	—		Wiring error check function	—	—
	3-D airflow	—	—		Anti-corrosion treatment of outdoor heat exchanger	●	●
Comfort Control	Auto fan speed	●	●	Flexibility	Multi-split/split type compatible indoor unit	●	●
	Indoor unit quiet operation	●	●		Flexible power supply correspondence	—	—
	NIGHT QUIET mode (automatic)	—	—		Chargeless	10 m	10 m
	OUTDOOR UNIT QUIET operation (manual)	●	●		Either side drain (right or left)	—	—
	INTELLIGENT EYE operation	—	—		Power selection	—	—
	Quick warming function (preheating control)	—	●		5-room centralized controller (option)	●	●
	Hot-start function	—	●		Remote control adaptor (normal open pulse contact) (option)	●	●
	Automatic defrosting	—	●		Remote control adaptor (normal open contact) (option)	●	●
Operation	Automatic operation	—	●	Remote Control	DIII-NET compatible (adaptor) (option)	●	●
	Program dry operation	●	●		Wireless	●	●
	Fan only	●	●		Wired (option)	—	—
Lifestyle Convenience	New POWERFUL operation (non-inverter)	—	—	Remote Controller			
	Inverter POWERFUL operation	●	●				
	Priority-room setting	—	—				
	COOL / HEAT mode lock	—	—				
	HOME LEAVE operation	●	●				
	ECONO operation	—	—				
	Indoor unit ON/OFF button	●	●				
	Signal receiving sign	●	●				
	R/C with back light	—	—				
Temperature display	—	—					

Note: ● : Available
— : Not available

★ : Lower limit can be extended by cutting jumper. (Facility use only)
Refer to page 120 for details.

Category	Functions	FLXS25/35BAVMB RXS25/35J2V1B	FLXS25/35BAVMB RXS25K3V1B RXS35K2V1B	Category	Functions	FLXS25/35BAVMB RXS25/35J2V1B	FLXS25/35BAVMB RXS25K3V1B RXS35K2V1B
Basic Functions	Inverter (with inverter power control)	●	●	Health & Cleanliness	Air-purifying filter	●	●
	Operation limit for cooling (°CDB)	-10 ~ 46 ★	-10 ~ 46 ★		Photocatalytic deodorizing filter	●	●
	Operation limit for heating (°CWB)	-15 ~ 18	-15 ~ 18		Air-purifying filter with photocatalytic deodorizing function (option)	●	●
	PAM control	●	●		Titanium apatite photocatalytic air-purifying filter	—	—
	Standby electricity saving	—	—		Air filter (prefilter)	●	●
Compressor	Oval scroll compressor	—	—	Wipe-clean flat panel	—	—	
	Swing compressor	●	●	Washable grille	—	—	
	Rotary compressor	—	—	MOLD PROOF operation	—	—	
	Reluctance DC motor	●	●	Good-sleep cooling operation	—	—	
Comfortable Airflow	Power-airflow flap	—	—	Timer	WEEKLY TIMER operation	—	—
	Power-airflow dual flaps	—	—		24-hour ON/OFF TIMER	●	●
	Power-airflow diffuser	—	—		NIGHT SET mode	●	●
	Wide-angle louvers	—	—	Worry Free (Reliability & Durability)	Auto-restart (after power failure)	●	●
	Auto-swing (up and down)	●	●		Self-diagnosis (digital, LED) display	●	●
	Auto-swing (right and left)	—	—		Wiring error check function	—	—
	3-D airflow	—	—		Anti-corrosion treatment of outdoor heat exchanger	●	●
Comfort Control	Auto fan speed	●	●	Flexibility	Multi-split/split type compatible indoor unit	●	●
	Indoor unit quiet operation	●	●		Flexible power supply correspondence	—	—
	NIGHT QUIET mode (automatic)	—	—		Chargeless	10 m	10 m
	OUTDOOR UNIT QUIET operation (manual)	●	●		Either side drain (right or left)	—	—
	INTELLIGENT EYE operation	—	—		Power selection	—	—
	Quick warming function (preheating control)	●	●	Remote Control	5-room centralized controller (option)	●	●
	Hot-start function	●	●		Remote control adaptor (normal open pulse contact) (option)	●	●
	Automatic defrosting	●	●		Remote control adaptor (normal open contact) (option)	●	●
Operation	Automatic operation	●	●	Remote Controller	DIII-NET compatible (adaptor) (option)	●	●
	Program dry operation	●	●		Wireless	●	●
	Fan only	●	●	Wired (option)	—	—	
Lifestyle Convenience	New POWERFUL operation (non-inverter)	—	—				
	Inverter POWERFUL operation	●	●				
	Priority-room setting	—	—				
	COOL / HEAT mode lock	—	—				
	HOME LEAVE operation	●	●				
	ECONO operation	—	—				
	Indoor unit ON/OFF button	●	●				
	Signal receiving sign	●	●				
R/C with back light	—	—					
Temperature display	—	—					

Note: ● : Available
— : Not available

★ : Lower limit can be extended by cutting jumper. (Facility use only)
Refer to page 120 for details.

Category	Functions	FLXS25BAVMB FLXS35BAVMB9 RXS25/35L2V1B	FLXS25BAVMB FLXS35BAVMB9 RXS25/35L3V1B	Category	Functions	FLXS25BAVMB FLXS35BAVMB9 RXS25/35L2V1B	FLXS25BAVMB FLXS35BAVMB9 RXS25/35L3V1B	
Basic Functions	Inverter (with inverter power control)	●	●	Health & Cleanliness	Air-purifying filter	●	●	
	Operation limit for cooling (°CDB)	-10 ~ 46 ★	-10 ~ 46 ★		Photocatalytic deodorizing filter	●	●	
	Operation limit for heating (°CWB)	-15 ~ 18	-15 ~ 18		Air-purifying filter with photocatalytic deodorizing function (option)	●	●	
	PAM control	●	●		Titanium apatite photocatalytic air-purifying filter	—	—	
	Standby electricity saving	—	—		Air filter (prefilter)	●	●	
Compressor	Oval scroll compressor	—	—	Wipe-clean flat panel	—	—		
	Swing compressor	●	●	Washable grille	—	—		
	Rotary compressor	—	—	MOLD PROOF operation	—	—		
	Reluctance DC motor	●	●	Good-sleep cooling operation	—	—		
Comfortable Airflow	Power-airflow flap	—	—	Timer	WEEKLY TIMER operation	—	—	
	Power-airflow dual flaps	—	—		24-hour ON/OFF TIMER	●	●	
	Power-airflow diffuser	—	—		NIGHT SET mode	●	●	
	Wide-angle louvers	—	—	Worry Free (Reliability & Durability)	Auto-restart (after power failure)	●	●	
	Auto-swing (up and down)	●	●		Self-diagnosis (digital, LED) display	●	●	
	Auto-swing (right and left)	—	—		Wiring error check function	—	—	
	3-D airflow	—	—		Anti-corrosion treatment of outdoor heat exchanger	●	●	
Comfort Control	Auto fan speed	●	●	Flexibility	Multi-split/split type compatible indoor unit	●	●	
	Indoor unit quiet operation	●	●		Flexible power supply correspondence	—	—	
	NIGHT QUIET mode (automatic)	—	—		Chargeless	10 m	10 m	
	OUTDOOR UNIT QUIET operation (manual)	●	●		Either side drain (right or left)	—	—	
	INTELLIGENT EYE operation	—	—		Power selection	—	—	
	Quick warming function (preheating control)	●	●		Remote Control	5-room centralized controller (option)	●	●
	Hot-start function	●	●			Remote control adaptor (normal open pulse contact) (option)	●	●
Automatic defrosting	●	●	Remote control adaptor (normal open contact) (option)	●		●		
Operation	Automatic operation	●	●	Remote Controller	DIII-NET compatible (adaptor) (option)	●	●	
	Program dry operation	●	●		Wireless	●	●	
	Fan only	●	●		Wired (option)	—	—	
Lifestyle Convenience	New POWERFUL operation (non-inverter)	—	—					
	Inverter POWERFUL operation	●	●					
	Priority-room setting	—	—					
	COOL / HEAT mode lock	—	—					
	HOME LEAVE operation	●	●					
	ECONO operation	—	—					
	Indoor unit ON/OFF button	●	●					
	Signal receiving sign	●	●					
	R/C with back light	—	—					
Temperature display	—	—						

Note: ● : Available
— : Not available

★ : Lower limit can be extended by cutting jumper. (Facility use only)
Refer to page 120 for details.

Part 2

Specifications

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1. Specifications

1.1 Cooling Only

50 Hz, 220 - 230 - 240 V

Model	Indoor Unit		FLKS25BAVMB		FLKS35BAVMB	
	Outdoor Unit		RKS25E2V1B		RKS35E2V1B	
Capacity Rated (Min. ~ Max.)	kW		2.5 (1.2 ~ 3.0)		3.5 (1.2 ~ 3.8)	
	Btu/h		8,500 (4,100 ~ 10,200)		11,900 (4,100 ~ 13,000)	
	kcal/h		2,150 (1,030 ~ 2,580)		3,010 (1,030 ~ 3,270)	
Moisture Removal	L/h		1.2		1.9	
Running Current (Rated)	A		3.7 - 3.6 - 3.4		5.3 - 5.1 - 4.9	
Power Consumption Rated (Min. ~ Max.)	W		650 (300 ~ 860)		1,130 (300 ~ 1,260)	
Power Factor	%		79.9 - 78.5 - 79.7		96.9 - 96.3 - 96.1	
COP Rated (Min. ~ Max.)	W/W		3.85 (4.00 ~ 3.49)		3.10 (4.00 ~ 3.02)	
Piping Connections	Liquid	mm	φ 6.4		φ 6.4	
	Gas	mm	φ 9.5		φ 9.5	
	Drain	mm	φ 18.0		φ 18.0	
Heat Insulation			Both Liquid and Gas Pipes		Both Liquid and Gas Pipes	
Max. Interunit Piping Length	m		20		20	
Max. Interunit Height Difference	m		15		15	
Chargeless	m		10		10	
Amount of Additional Charge of Refrigerant	g/m		20		20	
Indoor Unit			FLKS25BAVMB		FLKS35BAVMB	
Front Panel Color			Almond White		Almond White	
Airflow Rate	H	m³/min (cfm)	7.6 (268)		8.6 (304)	
	M		6.8 (240)		7.6 (268)	
	L		6.0 (212)		6.6 (233)	
	SL		5.2 (184)		5.6 (198)	
Fan	Type		Sirocco Fan		Sirocco Fan	
	Motor Output		W		34	
	Speed		Steps		5 Steps, Quiet, Auto	
Air Direction Control			Right, Left, Horizontal, Downward		Right, Left, Horizontal, Downward	
Air Filter			Removable / Washable / Mildew Proof		Removable / Washable / Mildew Proof	
Running Current (Rated)	A		0.33 - 0.32 - 0.31		0.38 - 0.36 - 0.35	
Power Consumption (Rated)	W		70 - 70 - 70		78 - 78 - 78	
Power Factor	%		96.4 - 95.1 - 94.1		93.3 - 94.2 - 92.9	
Temperature Control			Microcomputer Control		Microcomputer Control	
Dimensions (H x W x D)	mm		490 x 1,050 x 200		490 x 1,050 x 200	
Packaged Dimensions (H x W x D)	mm		280 x 1,100 x 566		280 x 1,100 x 566	
Weight (Mass)	kg		16		16	
Gross Weight (Gross Mass)	kg		22		22	
Sound Pressure Level	H / M / L / SL	dB(A)	37 / 34 / 31 / 28		38 / 35 / 32 / 29	
Sound Power Level	dB		53		54	
Outdoor Unit			RKS25E2V1B		RKS35E2V1B	
Casing Color			Ivory White		Ivory White	
Compressor	Type		Hermetically Sealed Swing Type		Hermetically Sealed Swing Type	
	Model		1YC23NXD		1YC23NXD	
	Motor Output		W		600	
Refrigerant Oil	Type		FVC50K		FVC50K	
	Charge		L		0.375	
Refrigerant	Type		R-410A		R-410A	
	Charge		kg		1.0	
Airflow Rate	H	m³/min (cfm)	33.5 (1,183)		33.5 (1,183)	
	L		23.4 (826)		23.4 (826)	
Fan	Type		Propeller		Propeller	
	Motor Output		W		23	
Running Current (Rated)	A		3.37 - 3.28 - 3.09		4.92 - 4.74 - 4.55	
Power Consumption (Rated)	W		580 - 580 - 580		1,052 - 1,052 - 1,052	
Power Factor	%		78.2 - 76.9 - 78.2		97.2 - 96.5 - 96.3	
Starting Current	A		3.7		5.3	
Dimensions (H x W x D)	mm		550 x 765 x 285		550 x 765 x 285	
Packaged Dimensions (H x W x D)	mm		617 x 882 x 363		617 x 882 x 363	
Weight (Mass)	kg		32		32	
Gross Weight (Gross Mass)	kg		38		38	
Sound Pressure Level	H / L	dB(A)	46 / 43		47 / 44	
Sound Power Level	H	dB	61		62	
Drawing No.			3D055004A		3D055005A	

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

Cooling	Piping Length
Indoor ; 27°CDB / 19°CWB Outdoor ; 35°CDB / 24°CWB	7.5 m

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

50 Hz, 220 - 230 - 240 V

Model	Indoor Unit		FLKS25BAVMB		FLKS35BAVMB	
	Outdoor Unit		RKS25G2V1B		RKS35G2V1B	
Capacity Rated (Min. ~ Max.)	kW		2.5 (1.2 ~ 3.0)		3.5 (1.2 ~ 3.8)	
	Btu/h		8,500 (4,100 ~ 10,200)		11,900 (4,100 ~ 13,000)	
	kcal/h		2,150 (1,030 ~ 2,580)		3,010 (1,030 ~ 3,270)	
Moisture Removal	L/h		1.2		1.9	
Running Current (Rated)	A		3.7 - 3.6 - 3.4		5.3 - 5.1 - 4.9	
Power Consumption Rated (Min. ~ Max.)	W		650 (300 ~ 860)		1,130 (300 ~ 1,260)	
Power Factor	%		79.9 - 78.5 - 79.7		96.9 - 96.3 - 96.1	
COP Rated (Min. ~ Max.)	W/W		3.85 (4.00 ~ 3.49)		3.10 (4.00 ~ 3.02)	
Piping Connections	Liquid	mm	φ 6.4		φ 6.4	
	Gas	mm	φ 9.5		φ 9.5	
	Drain	mm	φ 18.0		φ 18.0	
Heat Insulation			Both Liquid and Gas Pipes		Both Liquid and Gas Pipes	
Max. Interunit Piping Length	m		20		20	
Max. Interunit Height Difference	m		15		15	
Chargeless	m		10		10	
Amount of Additional Charge of Refrigerant	g/m		20		20	
Indoor Unit			FLKS25BAVMB		FLKS35BAVMB	
Front Panel Color			Almond White		Almond White	
Airflow Rate	H	m³/min (cfm)	7.6 (268)		8.6 (304)	
	M		6.8 (240)		7.6 (268)	
	L		6.0 (212)		6.6 (233)	
	SL		5.2 (184)		5.6 (198)	
Fan	Type		Sirocco Fan		Sirocco Fan	
	Motor Output	W	34		34	
	Speed	Steps	5 Steps, Quiet, Auto		5 Steps, Quiet, Auto	
Air Direction Control			Right, Left, Horizontal, Downward		Right, Left, Horizontal, Downward	
Air Filter			Removable / Washable / Mildew Proof		Removable / Washable / Mildew Proof	
Running Current (Rated)	A		0.33 - 0.32 - 0.31		0.38 - 0.36 - 0.35	
Power Consumption (Rated)	W		70 - 70 - 70		78 - 78 - 78	
Power Factor	%		96.4 - 95.1 - 94.1		93.3 - 94.2 - 92.9	
Temperature Control			Microcomputer Control		Microcomputer Control	
Dimensions (H x W x D)	mm		490 x 1,050 x 200		490 x 1,050 x 200	
Packaged Dimensions (H x W x D)	mm		280 x 1,100 x 566		280 x 1,100 x 566	
Weight (Mass)	kg		16		16	
Gross Weight (Gross Mass)	kg		22		22	
Sound Pressure Level	H / M / L / SL	dB(A)	37 / 34 / 31 / 28		38 / 35 / 32 / 29	
Sound Power Level	dB		53		54	
Outdoor Unit			RKS25G2V1B		RKS35G2V1B	
Casing Color			Ivory White		Ivory White	
Compressor	Type		Hermetically Sealed Swing Type		Hermetically Sealed Swing Type	
	Model		1YC23AFXD		1YC23AFXD	
	Motor Output	W	600		600	
Refrigerant Oil	Type		FVC50K		FVC50K	
	Charge	L	0.375		0.375	
Refrigerant	Type		R-410A		R-410A	
	Charge	kg	1.0		1.2	
Airflow Rate	H	m³/min (cfm)	33.5 (1,183)		36.0 (1,272)	
	SL		31.4 (1,109)		31.4 (1,109)	
Fan	Type		Propeller		Propeller	
	Motor Output	W	50		50	
Running Current (Rated)	A		3.37 - 3.28 - 3.09		4.92 - 4.74 - 4.55	
Power Consumption (Rated)	W		580 - 580 - 580		1,052 - 1,052 - 1,052	
Power Factor	%		78.2 - 76.9 - 78.2		97.2 - 96.5 - 96.3	
Starting Current	A		3.2		4.4	
Dimensions (H x W x D)	mm		550 x 765 x 285		550 x 765 x 285	
Packaged Dimensions (H x W x D)	mm		612 x 906 x 364		612 x 906 x 364	
Weight (Mass)	kg		34		34	
Gross Weight (Gross Mass)	kg		40		40	
Sound Pressure Level	H / SL	dB(A)	46 / 43		48 / 44	
Sound Power Level	H	dB	61		63	
Drawing No.			3D059861		3D059862	

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

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

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

50 Hz, 220 - 230 - 240 V

Model	Indoor Unit		FLKS25BAVMB		FLKS35BAVMB	
	Outdoor Unit		RKS25G2V1B9		RKS35G2V1B9	
Capacity Rated (Min. ~ Max.)	kW		2.5 (1.2 ~ 3.0)		3.5 (1.2 ~ 3.8)	
	Btu/h		8,500 (4,100 ~ 10,200)		11,900 (4,100 ~ 13,000)	
	kcal/h		2,150 (1,030 ~ 2,580)		3,010 (1,030 ~ 3,270)	
Moisture Removal	L/h		1.2		1.9	
Running Current (Rated)	A		3.7 - 3.6 - 3.4		5.3 - 5.1 - 4.9	
Power Consumption Rated (Min. ~ Max.)	W		650 (300 ~ 860)		1,130 (300 ~ 1,260)	
Power Factor	%		79.9 - 78.5 - 79.7		96.9 - 96.3 - 96.1	
COP Rated (Min. ~ Max.)	W/W		3.85 (4.00 ~ 3.49)		3.10 (4.00 ~ 3.02)	
Piping Connections	Liquid	mm	φ 6.4		φ 6.4	
	Gas	mm	φ 9.5		φ 9.5	
	Drain	mm	φ 18.0		φ 18.0	
Heat Insulation			Both Liquid and Gas Pipes		Both Liquid and Gas Pipes	
Max. Interunit Piping Length	m		20		20	
Max. Interunit Height Difference	m		15		15	
Chargeless	m		10		10	
Amount of Additional Charge of Refrigerant	g/m		20		20	
Indoor Unit			FLKS25BAVMB		FLKS35BAVMB	
Front Panel Color			Almond White		Almond White	
Airflow Rate	H	m ³ /min (cfm)	7.6 (268)		8.6 (304)	
	M		6.8 (240)		7.6 (268)	
	L		6.0 (212)		6.6 (233)	
	SL		5.2 (184)		5.6 (198)	
Fan	Type		Sirocco Fan		Sirocco Fan	
	Motor Output	W	34		34	
	Speed	Steps	5 Steps, Quiet, Auto		5 Steps, Quiet, Auto	
Air Direction Control			Right, Left, Horizontal, Downward		Right, Left, Horizontal, Downward	
Air Filter			Removable / Washable / Mildew Proof		Removable / Washable / Mildew Proof	
Running Current (Rated)	A		0.33 - 0.32 - 0.31		0.38 - 0.36 - 0.35	
Power Consumption (Rated)	W		70 - 70 - 70		78 - 78 - 78	
Power Factor	%		96.4 - 95.1 - 94.1		93.3 - 94.2 - 92.9	
Temperature Control			Microcomputer Control		Microcomputer Control	
Dimensions (H x W x D)	mm		490 x 1,050 x 200		490 x 1,050 x 200	
Packaged Dimensions (H x W x D)	mm		280 x 1,100 x 566		280 x 1,100 x 566	
Weight (Mass)	kg		16		16	
Gross Weight (Gross Mass)	kg		22		22	
Sound Pressure Level	H / M / L / SL	dB(A)	37 / 34 / 31 / 28		38 / 35 / 32 / 29	
Sound Power Level	dB		53		54	
Outdoor Unit			RKS25G2V1B9		RKS35G2V1B9	
Casing Color			Ivory White		Ivory White	
Compressor	Type		Hermetically Sealed Swing Type		Hermetically Sealed Swing Type	
	Model		1YC23AEXD		1YC23AEXD	
	Motor Output	W	600		600	
Refrigerant Oil	Type		FVC50K		FVC50K	
	Charge	L	0.375		0.375	
Refrigerant	Type		R-410A		R-410A	
	Charge	kg	1.0		1.2	
Airflow Rate	H	m ³ /min (cfm)	33.5 (1,183)		36.0 (1,271)	
	SL		30.1 (1,063)		30.1 (1,063)	
Fan	Type		Propeller		Propeller	
	Motor Output	W	23		23	
Running Current (Rated)	A		3.37 - 3.28 - 3.09		4.92 - 4.74 - 4.55	
Power Consumption (Rated)	W		580 - 580 - 580		1,052 - 1,052 - 1,052	
Power Factor	%		78.2 - 76.9 - 78.2		97.2 - 96.5 - 96.3	
Starting Current	A		3.7		5.3	
Dimensions (H x W x D)	mm		550 x 765 x 285		550 x 765 x 285	
Packaged Dimensions (H x W x D)	mm		612 x 906 x 364		612 x 906 x 364	
Weight (Mass)	kg		34		34	
Gross Weight (Gross Mass)	kg		38		38	
Sound Pressure Level	H / SL	dB(A)	46 / 43		48 / 44	
Sound Power Level	H	dB	61		63	
Drawing No.			3D065726A		3D065725A	

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

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

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

1.2 Heat Pump

50 Hz, 220 - 230 - 240 V

Model	Indoor Unit		FLXS25BAVMB		FLXS35BAVMB	
	Outdoor Unit		RXS25E2V1B		RXS35E2V1B	
			Cooling	Heating	Cooling	Heating
Capacity Rated (Min. ~ Max.)	kW		2.5 (1.2 ~ 3.0)	3.4 (1.2 ~ 4.5)	3.5 (1.2 ~ 3.8)	4.0 (1.2 ~ 5.0)
	Btu/h		8,500 (4,100 ~ 10,200)	11,600 (4,100 ~ 15,400)	11,900 (4,100 ~ 13,000)	13,600 (4,100 ~ 17,100)
	kcal/h		2,150 (1,030 ~ 2,580)	2,920 (1,030 ~ 3,870)	3,010 (1,030 ~ 3,270)	3,440 (1,030 ~ 4,300)
Moisture Removal	L/h		1.2	—	1.9	—
Running Current (Rated)	A		3.7 - 3.6 - 3.4	4.7 - 4.5 - 4.3	5.3 - 5.1 - 4.9	5.8 - 5.5 - 5.3
Power Consumption Rated (Min. ~ Max.)	W		650 (300 ~ 860)	980 (290 ~ 1,490)	1,130 (300 ~ 1,260)	1,230 (290 ~ 1,850)
Power Factor	%		79.9 - 78.5 - 79.7	94.8 - 94.7 - 95.0	96.9 - 96.3 - 96.1	96.4 - 97.2 - 96.7
COP Rated (Min. ~ Max.)	W/W		3.85 (4.00 ~ 3.49)	3.47 (4.14 ~ 3.02)	3.10 (4.00 ~ 3.02)	3.25 (4.14 ~ 2.70)
Piping Connections	Liquid	mm	φ 6.4		φ 6.4	
	Gas	mm	φ 9.5		φ 9.5	
	Drain	mm	φ 18.0		φ 18.0	
Heat Insulation		Both Liquid and Gas Pipes		Both Liquid and Gas Pipes		
Max. Interunit Piping Length	m		20		20	
Max. Interunit Height Difference	m		15		15	
Chargeless	m		10		10	
Amount of Additional Charge of Refrigerant	g/m		20		20	
Indoor Unit			FLXS25BAVMB		FLXS35BAVMB	
Front Panel Color			Almond White		Almond White	
Airflow Rate	H	m ³ /min (cfm)	7.6 (268)	9.2 (325)	8.6 (304)	9.8 (346)
	M		6.8 (240)	8.3 (293)	7.6 (268)	8.9 (314)
	L		6.0 (212)	7.4 (261)	6.6 (233)	8.0 (282)
	SL		5.2 (184)	6.6 (233)	5.6 (198)	7.2 (254)
Fan	Type		Sirocco Fan		Sirocco Fan	
	Motor Output	W	34		34	
	Speed	Steps	5 Steps, Quiet, Auto		5 Steps, Quiet, Auto	
Air Direction Control		Right, Left, Horizontal, Downward		Right, Left, Horizontal, Downward		
Air Filter		Removable / Washable / Mildew Proof		Removable / Washable / Mildew Proof		
Running Current (Rated)	A		0.33 - 0.32 - 0.31	0.36 - 0.34 - 0.33	0.38 - 0.36 - 0.35	0.38 - 0.36 - 0.35
Power Consumption (Rated)	W		70 - 70 - 70	74 - 74 - 74	78 - 78 - 78	78 - 78 - 78
Power Factor	%		96.4 - 95.1 - 94.1	93.4 - 94.6 - 93.4	93.3 - 94.2 - 92.9	93.3 - 94.2 - 92.9
Temperature Control			Microcomputer Control		Microcomputer Control	
Dimensions (H x W x D)	mm		490 x 1,050 x 200		490 x 1,050 x 200	
Packaged Dimensions (H x W x D)	mm		280 x 1,100 x 566		280 x 1,100 x 566	
Weight (Mass)	kg		16		16	
Gross Weight (Gross Mass)	kg		22		22	
Sound Pressure Level	H / M / L / SL	dB(A)	37 / 34 / 31 / 28	37 / 34 / 31 / 29	38 / 35 / 32 / 29	39 / 36 / 33 / 30
Sound Power Level		dB	53	53	54	55
Outdoor Unit			RXS25E2V1B		RXS35E2V1B	
Casing Color			Ivory White		Ivory White	
Compressor	Type		Hermetically Sealed Swing Type		Hermetically Sealed Swing Type	
	Model		1YC23NXD		1YC23NXD	
	Motor Output	W	600		600	
Refrigerant Oil	Model		FVC50K		FVC50K	
	Charge	L	0.375		0.375	
Refrigerant	Model		R-410A		R-410A	
	Charge	kg	1.0		1.0	
Airflow Rate	H	m ³ /min (cfm)	33.5 (1,183)	30.2 (1,066)	33.5 (1,183)	30.2 (1,066)
	L		23.4 (826)	28.3 (999)	23.4 (826)	28.3 (999)
Fan	Type		Propeller		Propeller	
	Motor Output	W	23		23	
Running Current (Rated)	A		3.37 - 3.28 - 3.09	4.34 - 4.16 - 3.97	4.92 - 4.74 - 4.55	5.42 - 5.14 - 4.95
Power Consumption (Rated)	W		580 - 580 - 580	906 - 906 - 906	1,052 - 1,052 - 1,052	1,152 - 1,152 - 1,152
Power Factor	%		78.2 - 76.9 - 78.2	94.9 - 94.7 - 95.1	97.2 - 96.5 - 96.3	96.6 - 97.4 - 97.0
Starting Current	A		4.7		5.8	
Dimensions (H x W x D)	mm		550 x 765 x 285		550 x 765 x 285	
Packaged Dimensions (H x W x D)	mm		617 x 882 x 363		617 x 882 x 363	
Weight (Mass)	kg		32		32	
Gross Weight (Gross Mass)	kg		38		38	
Sound Pressure Level	H / L	dB(A)	46 / 43	47 / 44	47 / 44	48 / 45
Sound Power Level	H	dB	61	62	62	63
Drawing No.			3D055002A		3D055003A	

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	7.5 m

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

50 Hz, 220 - 230 - 240 V

Model	Indoor Unit		FLXS25BAVMB		FLXS35BAVMB	
	Outdoor Unit		RXS25G2V1B		RXS35G2V1B	
			Cooling	Heating	Cooling	Heating
Capacity Rated (Min. ~ Max.)	kW		2.5 (1.2 ~ 3.0)	3.4 (1.2 ~ 4.5)	3.5 (1.2 ~ 3.8)	4.0 (1.2 ~ 5.0)
	Btu/h		8,500 (4,100 ~ 10,200)	11,600 (4,100 ~ 15,400)	11,900 (4,100 ~ 13,000)	13,600 (4,100 ~ 17,100)
	kcal/h		2,150 (1,030 ~ 2,580)	2,920 (1,030 ~ 3,870)	3,010 (1,030 ~ 3,270)	3,440 (1,030 ~ 4,300)
Moisture Removal	L/h		1.2	—	1.9	—
Running Current (Rated)	A		3.7 - 3.6 - 3.4	4.7 - 4.5 - 4.3	5.3 - 5.1 - 4.9	5.8 - 5.5 - 5.3
Power Consumption Rated (Min. ~ Max.)	W		650 (300 ~ 860)	980 (290 ~ 1,490)	1,130 (300 ~ 1,260)	1,230 (290 ~ 1,850)
Power Factor	%		79.9 - 78.5 - 79.7	94.8 - 94.7 - 95.0	96.9 - 96.3 - 96.1	96.4 - 97.2 - 96.7
COP Rated (Min. ~ Max.)	W/W		3.85 (4.00 ~ 3.49)	3.47 (4.14 ~ 3.02)	3.10 (4.00 ~ 3.02)	3.25 (4.14 ~ 2.70)
Piping Connections	Liquid	mm	φ 6.4		φ 6.4	
	Gas	mm	φ 9.5		φ 9.5	
	Drain	mm	φ 18.0		φ 18.0	
Heat Insulation			Both Liquid and Gas Pipes		Both Liquid and Gas Pipes	
Max. Interunit Piping Length	m		20		20	
Max. Interunit Height Difference	m		15		15	
Chargeless	m		10		10	
Amount of Additional Charge of Refrigerant	g/m		20		20	
Indoor Unit			FLXS25BAVMB		FLXS35BAVMB	
Front Panel Color			Almond White		Almond White	
Airflow Rate	H	m ³ /min (cfm)	7.6 (268)	9.2 (325)	8.6 (304)	9.8 (346)
	M		6.8 (240)	8.3 (293)	7.6 (268)	8.9 (314)
	L		6.0 (212)	7.4 (261)	6.6 (233)	8.0 (282)
	SL		5.2 (184)	6.6 (233)	5.6 (198)	7.2 (254)
Fan	Type		Sirocco Fan		Sirocco Fan	
	Motor Output	W	34		34	
	Speed	Steps	5 Steps, Quiet, Auto		5 Steps, Quiet, Auto	
Air Direction Control			Right, Left, Horizontal, Downward		Right, Left, Horizontal, Downward	
Air Filter			Removable / Washable / Mildew Proof		Removable / Washable / Mildew Proof	
Running Current (Rated)	A		0.33 - 0.32 - 0.31	0.36 - 0.34 - 0.33	0.38 - 0.36 - 0.35	0.38 - 0.36 - 0.35
Power Consumption (Rated)	W		70 - 70 - 70	74 - 74 - 74	78 - 78 - 78	78 - 78 - 78
Power Factor	%		96.4 - 95.1 - 94.1	93.4 - 94.6 - 93.4	93.3 - 94.2 - 92.9	93.3 - 94.2 - 92.9
Temperature Control			Microcomputer Control		Microcomputer Control	
Dimensions (H x W x D)	mm		490 x 1,050 x 200		490 x 1,050 x 200	
Packaged Dimensions (H x W x D)	mm		280 x 1,100 x 566		280 x 1,100 x 566	
Weight (Mass)	kg		16		16	
Gross Weight (Gross Mass)	kg		22		22	
Sound Pressure Level	H / M / L / SL	dB(A)	37 / 34 / 31 / 28	37 / 34 / 31 / 29	38 / 35 / 32 / 29	39 / 36 / 33 / 30
Sound Power Level		dB	53	53	54	55
Outdoor Unit			RXS25G2V1B		RXS35G2V1B	
Casing Color			Ivory White		Ivory White	
Compressor	Type		Hermetically Sealed Swing Type		Hermetically Sealed Swing Type	
	Model		1YC23AFXD		1YC23AFXD	
Refrigerant Oil	Motor Output	W	600		600	
	Model		FVC50K		FVC50K	
Refrigerant	Charge	L	0.375		0.375	
	Model		R-410A		R-410A	
Airflow Rate	H	m ³ /min (cfm)	33.5 (1,183)	30.2 (1,066)	36.0 (1,272)	30.2 (1,066)
	SL		31.4 (1,109)	22.6 (798)	31.4 (1,109)	22.6 (798)
Fan	Type		Propeller		Propeller	
	Motor Output	W	50		50	
Running Current (Rated)	A		3.37 - 3.28 - 3.09	4.34 - 4.16 - 3.97	4.92 - 4.74 - 4.55	5.42 - 5.14 - 4.95
Power Consumption (Rated)	W		580 - 580 - 580	906 - 906 - 906	1,052 - 1,052 - 1,052	1,152 - 1,152 - 1,152
Power Factor	%		78.2 - 76.9 - 78.2	94.9 - 94.7 - 95.1	97.2 - 96.5 - 96.3	96.6 - 97.4 - 97.0
Starting Current	A		4.3		4.8	
Dimensions (H x W x D)	mm		550 x 765 x 285		550 x 765 x 285	
Packaged Dimensions (H x W x D)	mm		612 x 906 x 364		612 x 906 x 364	
Weight (Mass)	kg		34		34	
Gross Weight (Gross Mass)	kg		40		40	
Sound Pressure Level	H / SL	dB(A)	46 / 43	47 / 44	48 / 44	48 / 45
Sound Power Level	H	dB	61	62	63	63
Drawing No.			3D059828		3D059829	

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

50 Hz, 220 - 230 - 240 V

Model	Indoor Unit		FLXS25BAVMB		FLXS35BAVMB	
	Outdoor Unit		RXS25G2V1B9		RXS35G2V1B9	
			Cooling	Heating	Cooling	Heating
Capacity Rated (Min. ~ Max.)	kW		2.5 (1.2 ~ 3.0)	3.4 (1.2 ~ 4.5)	3.5 (1.2 ~ 3.8)	4.0 (1.4 ~ 5.0)
	Btu/h		8,500 (4,100 ~ 10,200)	11,600 (4,100 ~ 15,400)	11,900 (4,100 ~ 13,000)	13,600 (4,100 ~ 17,100)
	kcal/h		2,150 (1,030 ~ 2,580)	2,920 (1,030 ~ 3,870)	3,010 (1,030 ~ 3,270)	3,440 (1,030 ~ 4,300)
Moisture Removal	L/h		1.2	—	1.9	—
Running Current (Rated)	A		3.7 - 3.6 - 3.4	4.7 - 4.5 - 4.3	5.3 - 5.1 - 4.9	5.8 - 5.5 - 5.3
Power Consumption Rated (Min. ~ Max.)	W		650 (300 ~ 860)	980 (290 ~ 1,490)	1,130 (300 ~ 1,260)	1,230 (290 ~ 1,850)
Power Factor	%		79.9 - 78.5 - 79.7	94.8 - 94.7 - 95.0	96.9 - 96.3 - 96.1	96.4 - 97.2 - 96.7
COP Rated (Min. ~ Max.)	W/W		3.85 (4.00 ~ 3.49)	3.47 (4.14 ~ 3.02)	3.10 (4.00 ~ 3.02)	3.25 (4.14 ~ 2.70)
Piping Connections	Liquid	mm	φ 6.4		φ 6.4	
	Gas	mm	φ 9.5		φ 9.5	
	Drain	mm	φ 18.0		φ 18.0	
Heat Insulation			Both Liquid and Gas Pipes		Both Liquid and Gas Pipes	
Max. Interunit Piping Length	m		20		20	
Max. Interunit Height Difference	m		15		15	
Chargeless	m		10		10	
Amount of Additional Charge of Refrigerant	g/m		20		20	
Indoor Unit			FLXS25BAVMB		FLXS35BAVMB	
Front Panel Color			Almond White		Almond White	
Airflow Rate	H	m ³ /min (cfm)	7.6 (268)	9.2 (325)	8.6 (304)	9.8 (346)
	M		6.8 (240)	8.3 (293)	7.6 (268)	8.9 (314)
	L		6.0 (212)	7.4 (261)	6.6 (233)	8.0 (282)
	SL		5.2 (184)	6.6 (233)	5.6 (198)	7.2 (254)
Fan	Type		Sirocco Fan		Sirocco Fan	
	Motor Output	W	34		34	
	Speed	Steps	5 Steps, Quiet, Auto		5 Steps, Quiet, Auto	
Air Direction Control			Right, Left, Horizontal, Downward		Right, Left, Horizontal, Downward	
Air Filter			Removable / Washable / Mildew Proof		Removable / Washable / Mildew Proof	
Running Current (Rated)	A		0.33 - 0.32 - 0.31	0.36 - 0.34 - 0.33	0.38 - 0.36 - 0.35	0.38 - 0.36 - 0.35
Power Consumption (Rated)	W		70 - 70 - 70	74 - 74 - 74	78 - 78 - 78	78 - 78 - 78
Power Factor	%		96.4 - 95.1 - 94.1	93.4 - 94.6 - 93.4	93.3 - 94.2 - 92.9	93.3 - 94.2 - 92.9
Temperature Control			Microcomputer Control		Microcomputer Control	
Dimensions (H x W x D)	mm		490 x 1,050 x 200		490 x 1,050 x 200	
Packaged Dimensions (H x W x D)	mm		280 x 1,100 x 566		280 x 1,100 x 566	
Weight (Mass)	kg		16		16	
Gross Weight (Gross Mass)	kg		22		22	
Sound Pressure Level	H / M / L / SL	dB(A)	37 / 34 / 31 / 28	37 / 34 / 31 / 29	38 / 35 / 32 / 29	39 / 36 / 33 / 30
Sound Power Level		dB	53	53	54	55
Outdoor Unit			RXS25G2V1B9		RXS35G2V1B9	
Casing Color			Ivory White		Ivory White	
Compressor	Type		Hermetically Sealed Swing Type		Hermetically Sealed Swing Type	
	Model		1YC23AEXD		1YC23AEXD	
	Motor Output	W	600		600	
Refrigerant Oil	Model		FVC50K		FVC50K	
	Charge	L	0.375		0.375	
Refrigerant	Model		R-410A		R-410A	
	Charge	kg	1.0		1.2	
Airflow Rate	H	m ³ /min (cfm)	33.5 (1,183)	28.3 (999)	36.0 (1,271)	28.3 (999)
	SL		30.1 (1,063)	25.6 (904)	30.1 (1,063)	25.6 (904)
Fan	Type		Propeller		Propeller	
	Motor Output	W	23		23	
Running Current (Rated)	A		3.37 - 3.28 - 3.09	4.34 - 4.16 - 3.97	4.92 - 4.74 - 4.55	5.42 - 5.14 - 4.95
Power Consumption (Rated)	W		580 - 580 - 580	906 - 906 - 906	1,052 - 1,052 - 1,052	1,152 - 1,152 - 1,152
Power Factor	%		78.2 - 76.9 - 78.2	94.9 - 94.7 - 95.1	97.2 - 96.5 - 96.3	96.6 - 97.4 - 97.0
Starting Current	A		4.7		5.8	
Dimensions (H x W x D)	mm		550 x 765 x 285		550 x 765 x 285	
Packaged Dimensions (H x W x D)	mm		612 x 906 x 364		612 x 906 x 364	
Weight (Mass)	kg		34		34	
Gross Weight (Gross Mass)	kg		38		38	
Sound Pressure Level	H / SL	dB(A)	46 / 43	47 / 44	48 / 44	48 / 45
Sound Power Level	H	dB	61	62	63	63
Drawing No.			3D065720A		3D065721A	

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

50 Hz, 220 - 230 - 240 V

Model	Indoor Unit		FLXS25BAVMB		FLXS35BAVMB	
	Outdoor Unit		RXS25J2V1B		RXS35J2V1B	
			Cooling	Heating	Cooling	Heating
Capacity Rated (Min. ~ Max.)	kW		2.5 (1.2 ~ 3.0)	3.4 (1.2 ~ 4.5)	3.5 (1.2 ~ 3.8)	4.0 (1.4 ~ 5.0)
	Btu/h		8,500 (4,100 ~ 10,200)	11,600 (4,100 ~ 15,400)	11,900 (4,100 ~ 13,000)	13,600 (4,100 ~ 17,100)
	kcal/h		2,150 (1,030 ~ 2,580)	2,920 (1,030 ~ 3,870)	3,010 (1,030 ~ 3,270)	3,440 (1,030 ~ 4,300)
Moisture Removal	L/h		1.2	—	1.9	—
Running Current (Rated)	A		3.7 - 3.6 - 3.4	4.7 - 4.5 - 4.3	5.3 - 5.1 - 4.9	5.8 - 5.5 - 5.3
Power Consumption Rated (Min. ~ Max.)	W		650 (300 ~ 860)	980 (290 ~ 1,490)	1,130 (300 ~ 1,260)	1,230 (290 ~ 1,850)
Power Factor	%		79.9 - 78.5 - 79.7	94.8 - 94.7 - 95.0	96.9 - 96.3 - 96.1	96.4 - 97.2 - 96.7
COP Rated (Min. ~ Max.)	W/W		3.85 (4.00 ~ 3.49)	3.47 (4.14 ~ 3.02)	3.10 (4.00 ~ 3.02)	3.25 (4.14 ~ 2.70)
Piping Connections	Liquid	mm	φ 6.4		φ 6.4	
	Gas	mm	φ 9.5		φ 9.5	
	Drain	mm	φ 18.0		φ 18.0	
Heat Insulation			Both Liquid and Gas Pipes		Both Liquid and Gas Pipes	
Max. Interunit Piping Length	m		20		20	
Max. Interunit Height Difference	m		15		15	
Chargeless	m		10		10	
Amount of Additional Charge of Refrigerant	g/m		20		20	
Indoor Unit			FLXS25BAVMB		FLXS35BAVMB	
Front Panel Color			Almond White		Almond White	
Airflow Rate	H	m ³ /min (cfm)	7.6 (268)	9.2 (325)	8.6 (304)	9.8 (346)
	M		6.8 (240)	8.3 (293)	7.6 (268)	8.9 (314)
	L		6.0 (212)	7.4 (261)	6.6 (233)	8.0 (282)
	SL		5.2 (184)	6.6 (233)	5.6 (198)	7.2 (254)
Fan	Type		Sirocco Fan		Sirocco Fan	
	Motor Output	W	34		34	
	Speed	Steps	5 Steps, Quiet, Auto		5 Steps, Quiet, Auto	
Air Direction Control			Right, Left, Horizontal, Downward		Right, Left, Horizontal, Downward	
Air Filter			Removable / Washable / Mildew Proof		Removable / Washable / Mildew Proof	
Running Current (Rated)	A		0.33 - 0.32 - 0.31	0.36 - 0.34 - 0.33	0.38 - 0.36 - 0.35	0.38 - 0.36 - 0.35
Power Consumption (Rated)	W		70 - 70 - 70	74 - 74 - 74	78 - 78 - 78	78 - 78 - 78
Power Factor	%		96.4 - 95.1 - 94.1	93.4 - 94.6 - 93.4	93.3 - 94.2 - 92.9	93.3 - 94.2 - 92.9
Temperature Control			Microcomputer Control		Microcomputer Control	
Dimensions (H x W x D)	mm		490 x 1,050 x 200		490 x 1,050 x 200	
Packaged Dimensions (H x W x D)	mm		280 x 1,100 x 566		280 x 1,100 x 566	
Weight (Mass)	kg		16		16	
Gross Weight (Gross Mass)	kg		22		22	
Sound Pressure Level	H / M / L / SL	dB(A)	37 / 34 / 31 / 28	37 / 34 / 31 / 29	38 / 35 / 32 / 29	39 / 36 / 33 / 30
Sound Power Level		dB	53	53	54	55
Outdoor Unit			RXS25J2V1B		RXS35J2V1B	
Casing Color			Ivory White		Ivory White	
Compressor	Type		Hermetically Sealed Swing Type		Hermetically Sealed Swing Type	
	Model		1YC23AEXD		1YC23AEXD	
Refrigerant Oil	Motor Output	W	600		600	
	Model		FVC50K		FVC50K	
Refrigerant	Charge	L	0.375		0.375	
	Model		R-410A		R-410A	
Airflow Rate	H	m ³ /min (cfm)	33.5 (1,183)	28.3 (999)	36.0 (1,271)	28.3 (999)
	SL		30.1 (1,063)	25.6 (904)	30.1 (1,063)	25.6 (904)
Fan	Type		Propeller		Propeller	
	Motor Output	W	23		23	
Running Current (Rated)	A		3.37 - 3.28 - 3.09	4.34 - 4.16 - 3.97	4.92 - 4.74 - 4.55	5.42 - 5.14 - 4.95
Power Consumption (Rated)	W		580 - 580 - 580	906 - 906 - 906	1,052 - 1,052 - 1,052	1,152 - 1,152 - 1,152
Power Factor	%		78.2 - 76.9 - 78.2	94.9 - 94.7 - 95.1	97.2 - 96.5 - 96.3	96.6 - 97.4 - 97.0
Starting Current	A		4.7		5.8	
Dimensions (H x W x D)	mm		550 x 765 x 285		550 x 765 x 285	
Packaged Dimensions (H x W x D)	mm		612 x 906 x 364		612 x 906 x 364	
Weight (Mass)	kg		34		34	
Gross Weight (Gross Mass)	kg		38		38	
Sound Pressure Level	H / SL	dB(A)	46 / 43	47 / 44	48 / 44	48 / 45
Sound Power Level	H	dB	61	62	63	63
Drawing No.			3D059564		3D059567	

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

50 Hz, 220 - 230 - 240 V

Model	Indoor Unit		FLXS25BAVMB		FLXS35BAVMB	
	Outdoor Unit		RXS25K3V1B		RXS35K2V1B	
			Cooling	Heating	Cooling	Heating
Capacity Rated (Min. ~ Max.)	kW		2.5 (1.2 ~ 3.0)	3.4 (1.2 ~ 4.5)	3.5 (1.2 ~ 3.8)	4.0 (1.4 ~ 5.0)
	Btu/h		8,500 (4,100 ~ 10,200)	11,600 (4,100 ~ 15,400)	11,900 (4,100 ~ 13,000)	13,600 (4,100 ~ 17,100)
	kcal/h		2,150 (1,030 ~ 2,580)	2,920 (1,030 ~ 3,870)	3,010 (1,030 ~ 3,270)	3,440 (1,030 ~ 4,300)
Moisture Removal	L/h		1.2	—	1.9	—
Running Current (Rated)	A		3.7 - 3.6 - 3.4	4.7 - 4.5 - 4.3	5.3 - 5.1 - 4.9	5.8 - 5.5 - 5.3
Power Consumption Rated (Min. ~ Max.)	W		650 (300 ~ 860)	980 (290 ~ 1,490)	1,130 (300 ~ 1,260)	1,230 (290 ~ 1,850)
Power Factor	%		79.9 - 78.5 - 79.7	94.8 - 94.7 - 95.0	96.9 - 96.3 - 96.1	96.4 - 97.2 - 96.7
COP Rated (Min. ~ Max.)	W/W		3.85 (4.00 ~ 3.49)	3.47 (4.14 ~ 3.02)	3.10 (4.00 ~ 3.02)	3.25 (4.14 ~ 2.70)
Piping Connections	Liquid	mm	φ 6.4		φ 6.4	
	Gas	mm	φ 9.5		φ 9.5	
	Drain	mm	φ 18.0		φ 18.0	
Heat Insulation			Both Liquid and Gas Pipes		Both Liquid and Gas Pipes	
Max. Interunit Piping Length	m		20		20	
Max. Interunit Height Difference	m		15		15	
Chargeless	m		10		10	
Amount of Additional Charge of Refrigerant	g/m		20		20	
Indoor Unit			FLXS25BAVMB		FLXS35BAVMB	
Front Panel Color			Almond White		Almond White	
Airflow Rate	H	m ³ /min (cfm)	7.6 (268)	9.2 (325)	8.6 (304)	9.8 (346)
	M		6.8 (240)	8.3 (293)	7.6 (268)	8.9 (314)
	L		6.0 (212)	7.4 (261)	6.6 (233)	8.0 (282)
	SL		5.2 (184)	6.6 (233)	5.6 (198)	7.2 (254)
Fan	Type		Sirocco Fan		Sirocco Fan	
	Motor Output	W	34		34	
	Speed	Steps	5 Steps, Quiet, Auto		5 Steps, Quiet, Auto	
Air Direction Control			Right, Left, Horizontal, Downward		Right, Left, Horizontal, Downward	
Air Filter			Removable / Washable / Mildew Proof		Removable / Washable / Mildew Proof	
Running Current (Rated)	A		0.33 - 0.32 - 0.31	0.36 - 0.34 - 0.33	0.38 - 0.36 - 0.35	0.38 - 0.36 - 0.35
Power Consumption (Rated)	W		70 - 70 - 70	74 - 74 - 74	78 - 78 - 78	78 - 78 - 78
Power Factor	%		96.4 - 95.1 - 94.1	93.4 - 94.6 - 93.4	93.3 - 94.2 - 92.9	93.3 - 94.2 - 92.9
Temperature Control			Microcomputer Control		Microcomputer Control	
Dimensions (H x W x D)	mm		490 x 1,050 x 200		490 x 1,050 x 200	
Packaged Dimensions (H x W x D)	mm		280 x 1,100 x 566		280 x 1,100 x 566	
Weight (Mass)	kg		16		16	
Gross Weight (Gross Mass)	kg		22		22	
Sound Pressure Level	H / M / L / SL	dB(A)	37 / 34 / 31 / 28	37 / 34 / 31 / 29	38 / 35 / 32 / 29	39 / 36 / 33 / 30
Sound Power Level		dB	51	51	53	54
Outdoor Unit			RXS25K3V1B		RXS35K2V1B	
Casing Color			Ivory White		Ivory White	
Compressor	Type		Hermetically Sealed Swing Type		Hermetically Sealed Swing Type	
	Model		1YC23AEXD		1YC23AEXD	
Refrigerant Oil	Motor Output	W	600		600	
	Model		FVC50K		FVC50K	
Refrigerant	Charge	L	0.375		0.375	
	Model		R-410A		R-410A	
Airflow Rate	H	m ³ /min (cfm)	33.5 (1,183)	28.3 (999)	36.0 (1,271)	28.3 (999)
	SL		30.1 (1,063)	25.6 (904)	30.1 (1,063)	25.6 (904)
Fan	Type		Propeller		Propeller	
	Motor Output	W	23		23	
Running Current (Rated)	A		3.37 - 3.28 - 3.09	4.34 - 4.16 - 3.97	4.92 - 4.74 - 4.55	5.42 - 5.14 - 4.95
Power Consumption (Rated)	W		580 - 580 - 580	906 - 906 - 906	1,052 - 1,052 - 1,052	1,152 - 1,152 - 1,152
Power Factor	%		78.2 - 76.9 - 78.2	94.9 - 94.7 - 95.1	97.2 - 96.5 - 96.3	96.6 - 97.4 - 97.0
Starting Current	A		4.7		5.8	
Dimensions (H x W x D)	mm		550 x 765 x 285		550 x 765 x 285	
Packaged Dimensions (H x W x D)	mm		612 x 906 x 364		612 x 906 x 364	
Weight (Mass)	kg		34		34	
Gross Weight (Gross Mass)	kg		38		38	
Sound Pressure Level	H / SL	dB(A)	46 / 43	47 / 44	48 / 44	48 / 45
Sound Power Level	H	dB	62	63	63	63
Drawing No.			3D081090		3D081091	

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

50 Hz, 220 - 230 - 240 V

Model	Indoor Unit		FLXS25BAVMB		FLXS35BAVMB9	
	Outdoor Unit		RXS25L2V1B		RXS35L2V1B	
			Cooling	Heating	Cooling	Heating
Capacity Rated (Min. ~ Max.)	kW		2.5 (1.2 ~ 3.0)	3.4 (1.2 ~ 4.5)	3.5 (1.2 ~ 3.8)	4.0 (1.4 ~ 5.0)
	Btu/h		8,500 (4,100 ~ 10,200)	11,600 (4,100 ~ 15,400)	11,900 (4,100 ~ 13,000)	13,600 (4,100 ~ 17,100)
	kcal/h		2,150 (1,030 ~ 2,580)	2,920 (1,030 ~ 3,870)	3,010 (1,030 ~ 3,270)	3,440 (1,030 ~ 4,300)
Moisture Removal	L/h		1.2	—	1.9	—
Running Current (Rated)	A		3.7 - 3.6 - 3.4	4.7 - 4.5 - 4.3	5.3 - 5.1 - 4.9	5.6 - 5.3 - 5.1
Power Consumption Rated (Min. ~ Max.)	W		650 (300 ~ 860)	960 (290 ~ 1,490)	1,130 (300 ~ 1,260)	1,120 (290 ~ 1,850)
Power Factor	%		79.9 - 78.5 - 79.7	94.8 - 94.7 - 95.0	96.9 - 96.3 - 96.1	94.7 - 94.8 - 94.7
COP Rated (Min. ~ Max.)	W/W		3.85 (4.00 ~ 3.49)	3.54 (4.14 ~ 3.04)	3.10 (4.00 ~ 3.02)	3.57 (4.14 ~ 2.70)
Piping Connections	Liquid	mm	φ 6.4		φ 6.4	
	Gas	mm	φ 9.5		φ 9.5	
	Drain	mm	φ 18.0		φ 18.0	
Heat Insulation			Both Liquid and Gas Pipes		Both Liquid and Gas Pipes	
Max. Interunit Piping Length	m		20		20	
Max. Interunit Height Difference	m		15		15	
Chargeless	m		10		10	
Amount of Additional Charge of Refrigerant	g/m		20		20	
Indoor Unit			FLXS25BAVMB		FLXS35BAVMB9	
Front Panel Color			Almond White		Almond White	
Airflow Rate	H	m ³ /min (cfm)	7.6 (268)	9.2 (325)	8.6 (304)	12.8 (452)
	M		6.8 (240)	8.3 (293)	7.6 (268)	10.4 (367)
	L		6.0 (212)	7.4 (261)	6.6 (233)	8.0 (282)
	SL		5.2 (184)	6.6 (233)	5.6 (198)	7.2 (254)
Fan	Type		Sirocco Fan		Sirocco Fan	
	Motor Output	W	34		34	
	Speed	Steps	5 Steps, Quiet, Auto		5 Steps, Quiet, Auto	
Air Direction Control			Right, Left, Horizontal, Downward		Right, Left, Horizontal, Downward	
Air Filter			Removable / Washable / Mildew Proof		Removable / Washable / Mildew Proof	
Running Current (Rated)	A		0.33 - 0.32 - 0.31	0.36 - 0.34 - 0.33	0.38 - 0.36 - 0.35	0.38 - 0.36 - 0.35
Power Consumption (Rated)	W		70 - 70 - 70	74 - 74 - 74	78 - 78 - 78	78 - 78 - 78
Power Factor	%		96.4 - 95.1 - 94.1	93.4 - 94.6 - 93.4	93.3 - 94.2 - 92.9	93.3 - 94.2 - 92.9
Temperature Control			Microcomputer Control		Microcomputer Control	
Dimensions (H x W x D)	mm		490 x 1,050 x 200		490 x 1,050 x 200	
Packaged Dimensions (H x W x D)	mm		280 x 1,100 x 566		280 x 1,100 x 566	
Weight (Mass)	kg		16		16	
Gross Weight (Gross Mass)	kg		22		22	
Sound Pressure Level	H / M / L / SL	dB(A)	37 / 34 / 31 / 28	37 / 34 / 31 / 29	38 / 35 / 32 / 29	46 / 36 / 33 / 30
Sound Power Level		dB	51	51	53	59
Outdoor Unit			RXS25L2V1B		RXS35L2V1B	
Casing Color			Ivory White		Ivory White	
Compressor	Type		Hermetically Sealed Swing Type		Hermetically Sealed Swing Type	
	Model		1YC23APXD		1YC23APXD	
	Motor Output	W	600		600	
Refrigerant Oil	Model		FVC50K		FVC50K	
	Charge	L	0.375		0.375	
Refrigerant	Model		R-410A		R-410A	
	Charge	kg	1.0		1.2	
Airflow Rate	H	m ³ /min (cfm)	33.5 (1,183)	28.3 (999)	36.0 (1,271)	28.3 (999)
	SL		30.1 (1,063)	25.6 (904)	30.1 (1,063)	25.6 (904)
Fan	Type		Propeller		Propeller	
	Motor Output	W	23		23	
Running Current (Rated)	A		3.37 - 3.28 - 3.09	4.34 - 4.16 - 3.97	4.92 - 4.74 - 4.55	5.19 - 4.96 - 4.75
Power Consumption (Rated)	W		580 - 580 - 580	906 - 906 - 906	1,052 - 1,052 - 1,052	1,102 - 1,102 - 1,102
Power Factor	%		78.2 - 76.9 - 78.2	94.9 - 94.7 - 95.1	97.2 - 96.5 - 96.3	96.6 - 97.4 - 97.0
Starting Current	A		4.7		5.8	
Dimensions (H x W x D)	mm		550 x 765 x 285		550 x 765 x 285	
Packaged Dimensions (H x W x D)	mm		612 x 906 x 364		612 x 906 x 364	
Weight (Mass)	kg		34		34	
Gross Weight (Gross Mass)	kg		38		38	
Sound Pressure Level	H / SL	dB(A)	46 / 43	47 / 44	48 / 44	48 / 45
Sound Power Level	H	dB	59	59	61	61
Drawing No.			3D086497		C: 3D085637B	

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

50 Hz, 220 - 230 - 240 V

Model	Indoor Unit		FLXS25BAVMB		FLXS35BAVMB9	
	Outdoor Unit		RXS25L3V1B		RXS35L3V1B	
			Cooling	Heating	Cooling	Heating
Capacity Rated (Min. ~ Max.)	kW		2.5 (1.2 ~ 3.0)	3.4 (1.2 ~ 4.5)	3.5	4.0 (1.4 ~ 5.0)
	Btu/h		8,500 (4,100 ~ 10,200)	11,600 (4,100 ~ 15,400)	11,900 (4,100 ~ 13,000)	13,600 (4,100 ~ 17,100)
	kcal/h		2,150 (1,030 ~ 2,580)	2,920 (1,030 ~ 3,870)	3,010 (1,030 ~ 3,270)	3,440 (1,030 ~ 4,300)
Moisture Removal	L/h		1.2	—	1.9	—
Running Current (Rated)	A		3.80 - 3.70 - 3.49	4.70 - 4.50 - 4.30	5.70 - 5.49 - 5.27	5.60 - 5.30 - 5.10
Power Consumption Rated (Min. ~ Max.)	W		668 (300 ~ 860)	960 (290 ~ 1,490)	1,215 (300 ~ 1,260)	1,120 (290 ~ 1,850)
Power Factor	%		79.9 - 78.5 - 79.7	94.8 - 94.7 - 95.0	96.9 - 96.3 - 96.1	94.7 - 94.8 - 94.7
COP Rated (Min. ~ Max.)	W/W		3.74 (4.00 ~ 3.49)	3.54 (4.14 ~ 3.04)	2.88	3.57 (4.14 ~ 2.70)
Piping Connections	Liquid	mm	φ 6.4		φ 6.4	
	Gas	mm	φ 9.5		φ 9.5	
	Drain	mm	φ 18.0		φ 18.0	
Heat Insulation	Both Liquid and Gas Pipes				Both Liquid and Gas Pipes	
Max. Interunit Piping Length	m		20		20	
Max. Interunit Height Difference	m		15		15	
Chargeless	m		10		10	
Amount of Additional Charge of Refrigerant	g/m		20		20	
Indoor Unit			FLXS25BAVMB		FLXS35BAVMB9	
Front Panel Color			Almond White		Almond White	
Airflow Rate	H	m³/min (cfm)	7.6 (268)	9.2 (325)	8.6 (304)	12.8 (452)
	M		6.8 (240)	8.3 (293)	7.6 (268)	10.4 (367)
	L		6.0 (212)	7.4 (261)	6.6 (233)	8.0 (282)
	SL		5.2 (184)	6.6 (233)	5.6 (198)	7.2 (254)
Fan	Type		Sirocco Fan		Sirocco Fan	
	Motor Output	W	34		34	
	Speed	Steps	5 Steps, Quiet, Auto		5 Steps, Quiet, Auto	
Air Direction Control			Right, Left, Horizontal, Downward		Right, Left, Horizontal, Downward	
Air Filter			Removable / Washable / Mildew Proof		Removable / Washable / Mildew Proof	
Running Current (Rated)	A		0.33 - 0.32 - 0.31	0.36 - 0.34 - 0.33	0.38 - 0.36 - 0.35	0.38 - 0.36 - 0.35
Power Consumption (Rated)	W		70 - 70 - 70	74 - 74 - 74	78 - 78 - 78	78 - 78 - 78
Power Factor	%		96.4 - 95.1 - 94.1	93.4 - 94.6 - 93.4	93.3 - 94.2 - 92.9	93.3 - 94.2 - 92.9
Temperature Control			Microcomputer Control		Microcomputer Control	
Dimensions (H x W x D)	mm		490 x 1,050 x 200		490 x 1,050 x 200	
Packaged Dimensions (H x W x D)	mm		280 x 1,100 x 566		280 x 1,100 x 566	
Weight (Mass)	kg		16		16	
Gross Weight (Gross Mass)	kg		22		22	
Sound Pressure Level	H / M / L / SL	dB(A)	37 / 34 / 31 / 28	37 / 34 / 31 / 29	38 / 35 / 32 / 29	46 / 36 / 33 / 30
	Sound Power Level		dB	51	51	53
Outdoor Unit			RXS25L3V1B		RXS35L3V1B	
Casing Color			Ivory White		Ivory White	
Compressor	Type		Hermetically Sealed Swing Type		Hermetically Sealed Swing Type	
	Model		1YC23AWXD		1YC23AWXD	
Refrigerant Oil	Motor Output	W	600		600	
	Model		FVC50K		FVC50K	
Refrigerant	Charge	L	0.375		0.375	
	Model		R-410A		R-410A	
Airflow Rate	Charge	kg	1.0		1.2	
	H	m³/min (cfm)	33.5 (1,183)	28.3 (999)	36.0 (1,271)	28.3 (999)
SL	30.1 (1,063)		25.6 (904)	30.1 (1,063)	25.6 (904)	
Fan	Type		Propeller		Propeller	
	Motor Output	W	50		50	
Running Current (Rated)	A		3.47 - 3.38 - 3.18	4.34 - 4.16 - 3.97	5.32 - 5.13 - 4.92	5.19 - 4.96 - 4.75
Power Consumption (Rated)	W		598 - 598 - 598	906 - 906 - 906	1,137 - 1,137 - 1,137	1,102 - 1,102 - 1,102
Power Factor	%		78.3 - 76.9 - 78.3	94.9 - 94.7 - 95.1	97.2 - 96.4 - 96.3	96.6 - 97.4 - 97.0
Starting Current	A		3.3		4.3	
Dimensions (H x W x D)	mm		550 x 765 x 285		550 x 765 x 285	
Packaged Dimensions (H x W x D)	mm		612 x 906 x 364		612 x 906 x 364	
Weight (Mass)	kg		34		34	
Gross Weight (Gross Mass)	kg		37		37	
Sound Pressure Level	H / SL	dB(A)	46 / 43	47 / 44	48 / 44	48 / 45
	Sound Power Level		dB	59	59	61
Drawing No.	3D092068B				C: 3D092030B	

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

Part 3

Printed Circuit Board

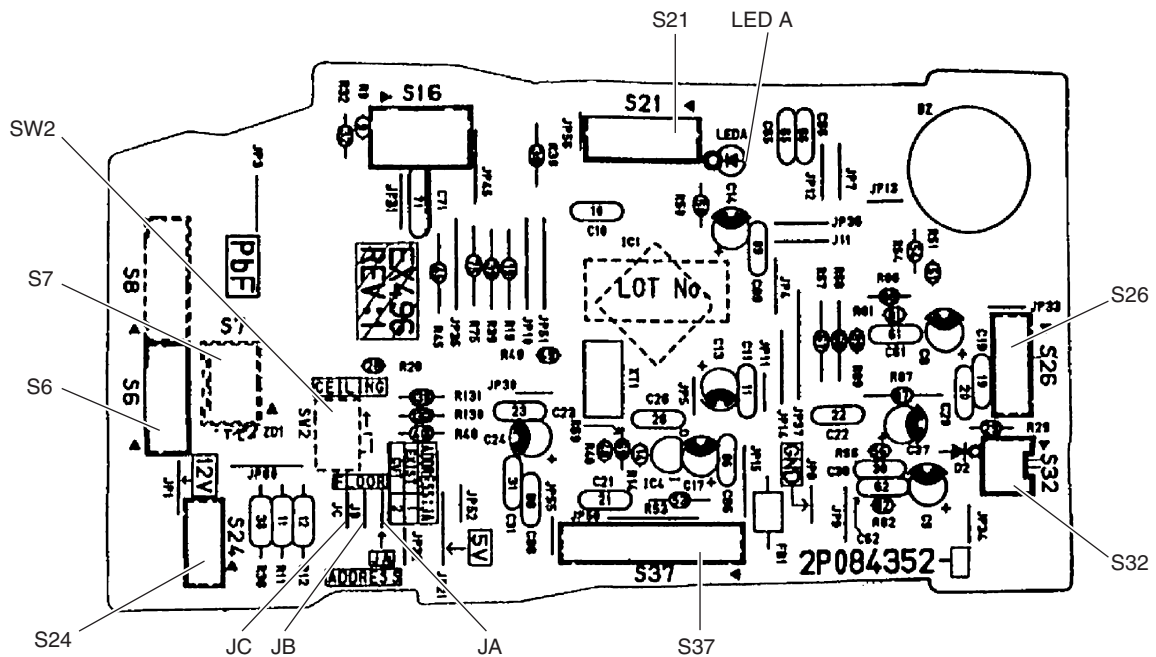
Connector Wiring Diagram

1. Indoor Unit.....	19
2. Outdoor Unit.....	21
2.1 RK(X)S25/35E2V1B.....	21
2.2 RK(X)S25/35G2V1B.....	23
2.3 RK(X)S25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B.....	25
2.4 RXS25/35L3V1B.....	27

1. Indoor Unit

Control PCB (PCB1)

- | | |
|-----------|--|
| 1) S6 | Connector for swing motor (horizontal swing) |
| 2) S7 | Connector for AC fan motor |
| 3) S21 | Connector for centralized control (HA) |
| 4) S24 | Connector for display PCB |
| 5) S26 | Connector for signal receiver PCB |
| 6) S32 | Connector for indoor heat exchanger thermistor |
| 7) S37 | Connector for power supply PCB |
| 8) JA | Address setting jumper
* Refer to page 119 for details. |
| 9) JB | Fan speed setting when compressor stops for thermostat OFF
* Refer to page 121 for details. |
| 10) JC | Power failure recovery function
* Refer to page 121 for details. |
| 11) SW2 | Select switch for installation (ceiling or floor)
* Refer to page 121 for details. |
| 12) LED A | LED for service monitor (green) |



2P084352-3

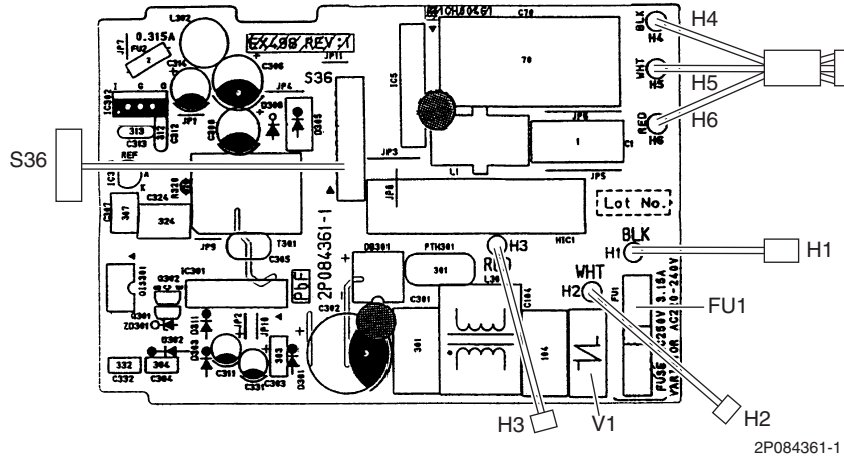


Caution Replace the PCB if you accidentally cut a wrong jumper.

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

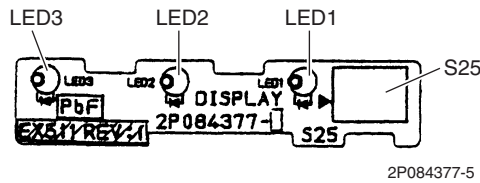
Power Supply PCB (PCB2)

- 1) S36 Connector for control PCB
- 2) H1, H2, H3 Connector for terminal board
- 3) H4, H5, H6 Connector for AC fan motor
- 4) V1 Varistor
- 5) FU1 Fuse (3.15 A, 250 V)



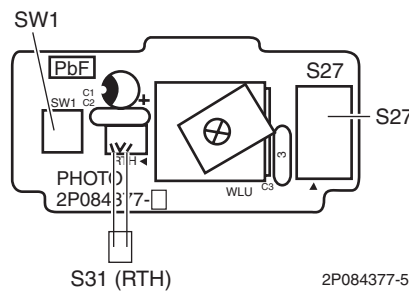
Display PCB (PCB3)

- 1) S25 Connector for control PCB
- 2) LED1 (H1P) LED for operation (green)
- 3) LED2 (H2P) LED for timer (yellow)
- 4) LED3 (H3P) LED for HOME LEAVE operation (red)



Signal Receiver PCB (PCB4)

- 1) S27 Connector for control PCB
 - 2) S31 (RTH) Connector for room temperature thermistor
 - 3) SW1 (S1W) Forced cooling operation ON/OFF button
- * Refer to page 116 for details.



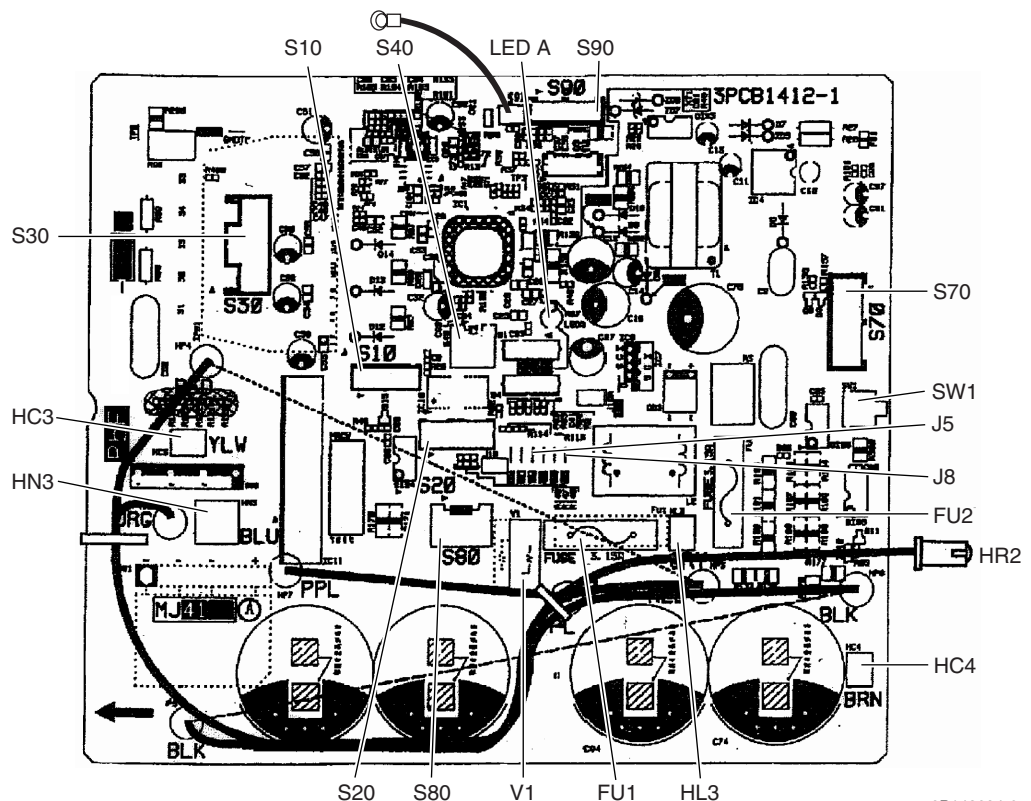
i Note: The symbols in the parenthesis are the names on the appropriate wiring diagram.

2. Outdoor Unit

2.1 RK(X)S25/35E2V1B

Main PCB (PCB2)

- | | |
|-------------------------|--|
| 1) S10 | Connector for filter PCB |
| 2) S20 | Connector for electronic expansion valve coil |
| 3) S30 | Connector for compressor |
| 4) S40 | Connector for overload protector |
| 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) HC3, HC4
HL3, HN3 | Connector for filter PCB |
| 9) HR2 | Connector for reactor |
| 10) FU1, FU2 | Fuse (3.15 A, 250 V) |
| 11) LED A | LED for service monitor (green) |
| 12) V1 | Varistor |
| 13) J5 | Jumper for improvement of defrost performance
* Refer to page 121 for details. |
| 14) J8 | Jumper for facility setting
* Refer to page 120 for details. |
| 15) SW1 | Forced cooling operation ON/OFF button
* Refer to page 116 for details. |

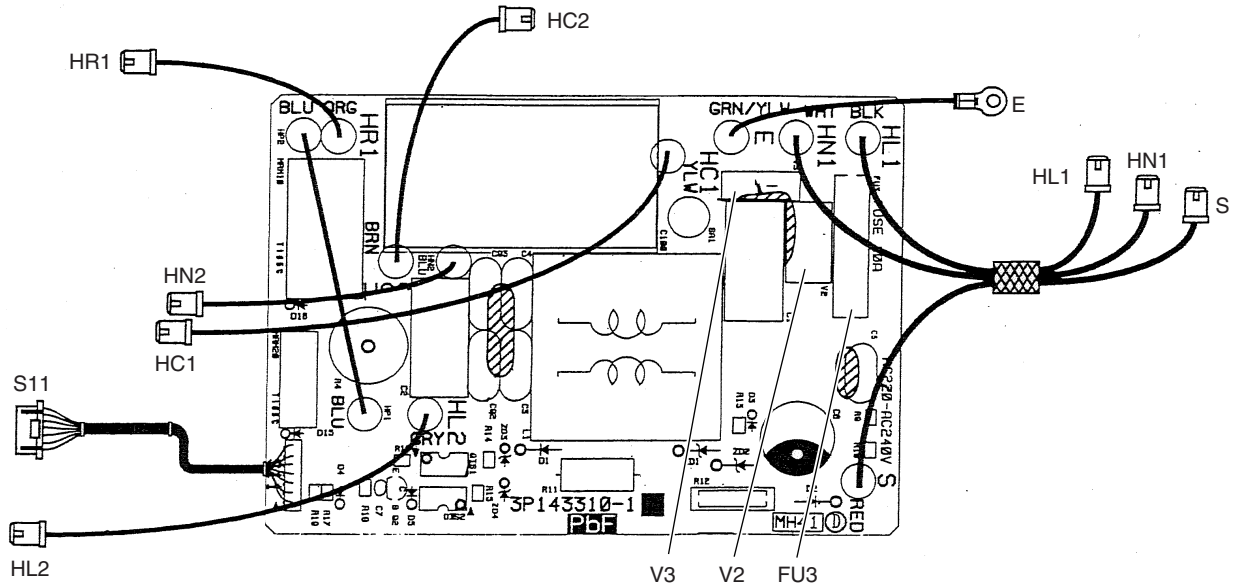


Caution Replace the PCB if you accidentally cut a wrong jumper.

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

Filter PCB (PCB1)

- 1) S11 Connector for main PCB
- 2) HL1, HN1, S Connector for terminal board
- 3) E Terminal for earth wire
- 4) HC1, HC2 Connector for main PCB
HL2, HN2
- 5) HR1 Connector for reactor
- 6) FU3 Fuse (20 A, 250 V)
- 7) V2, V3 Varistor

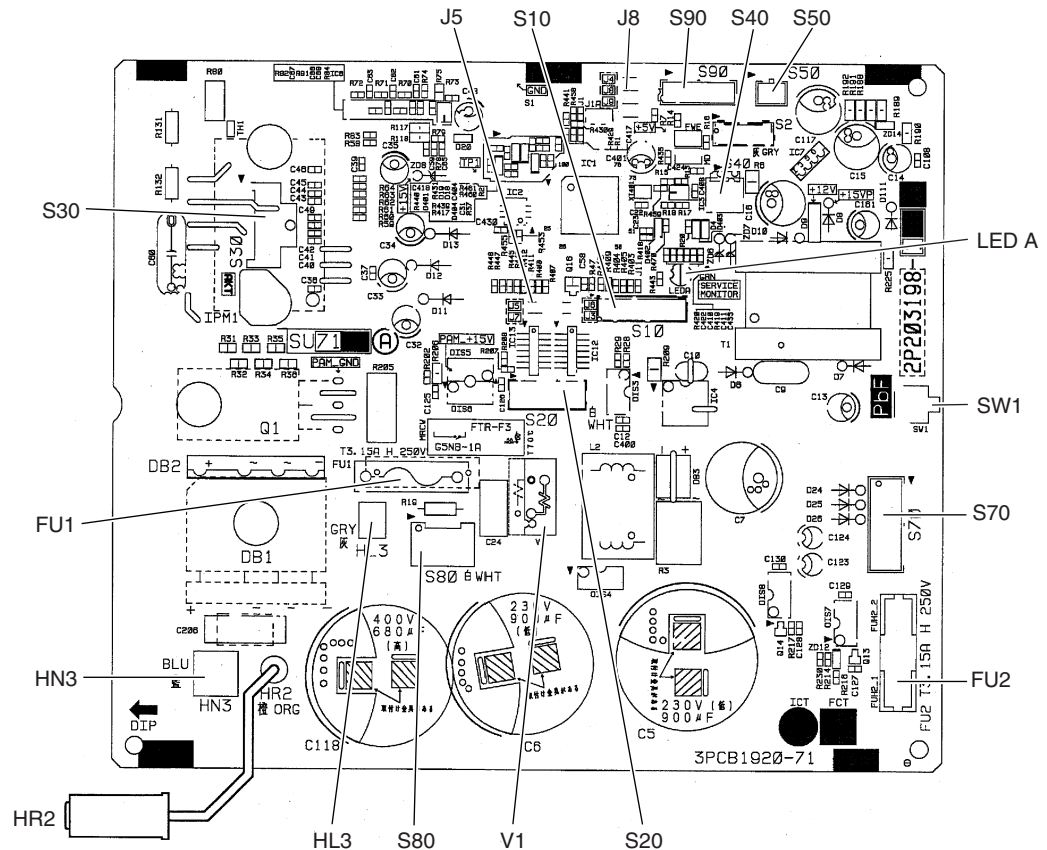


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2.2 RK(X)S25/35G2V1B

Main PCB (PCB2)

- | | |
|--------------|--|
| 1) S10 | Connector for filter PCB |
| 2) S20 | Connector for electronic expansion valve coil |
| 3) S30 | Connector for compressor |
| 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 filter PCB |
| 10) HR2 | Connector for reactor |
| 11) FU1, FU2 | Fuse (3.15 A, 250 V) |
| 12) LED A | LED for service monitor (green) |
| 13) V1 | Varistor |
| 14) J5 | Jumper for improvement of defrost performance
* Refer to page 121 for details. |
| 15) J8 | Jumper for facility setting
* Refer to page 120 for details. |
| 16) SW1 | Forced cooling operation ON/OFF button
* Refer to page 116 for details. |



2P203198-1

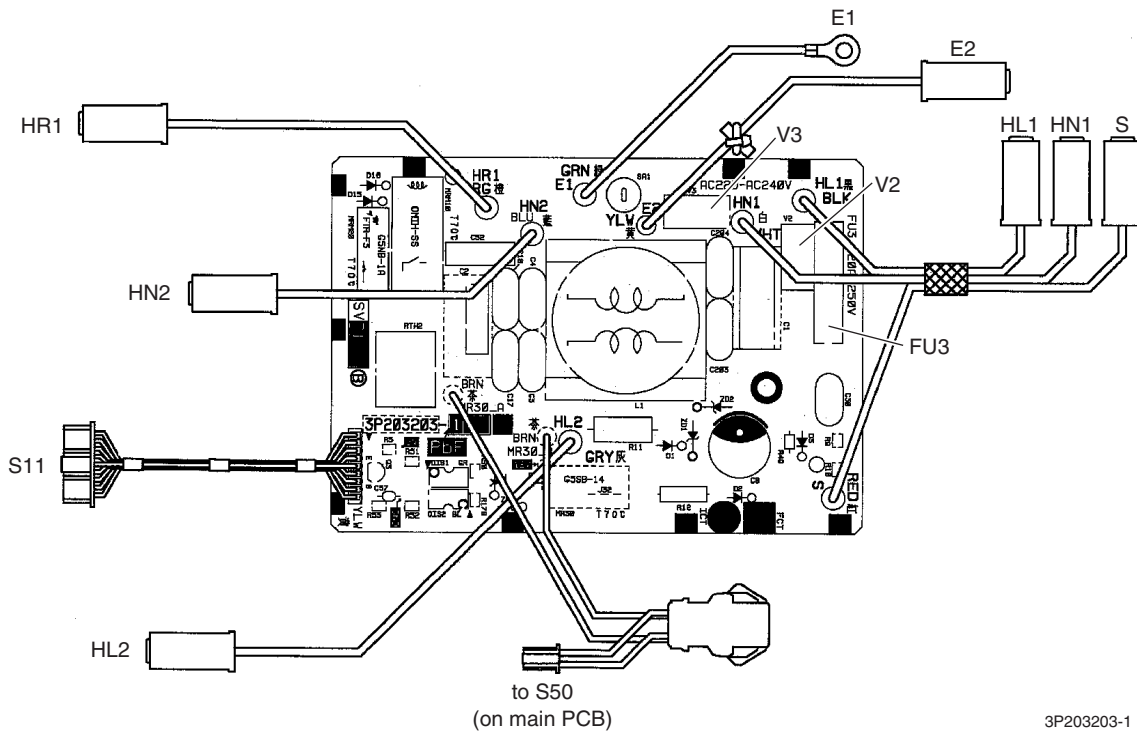


Caution Replace the PCB if you accidentally cut a wrong jumper.

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

Filter PCB (PCB1)

- | | |
|----------------|--------------------------------------|
| 1) S11 | Connector for main PCB |
| 2) HL1, HN1, S | Connector for terminal board |
| 3) E1 | Terminal for earth wire |
| 4) E2 | Connector for terminal board (earth) |
| 5) HL2, HN2 | Connector for main PCB |
| 6) HR1 | Connector for reactor |
| 7) FU3 | Fuse (20 A, 250 V) |
| 8) V2, V3 | Varistor |

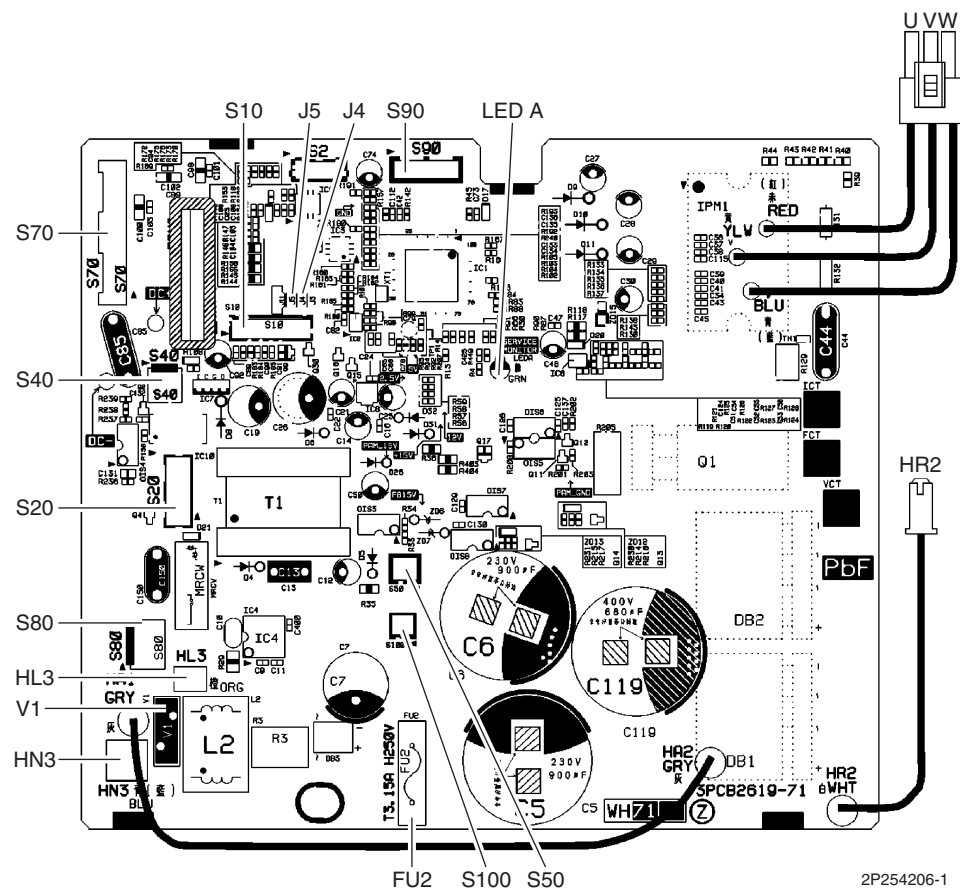


3P203203-1

2.3 RK(X)S25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B

Main PCB (PCB2)

- | | |
|-------------|--|
| 1) S10 | Connector for filter PCB |
| 2) S20 | Connector for electronic expansion valve coil |
| 3) S40 | Connector for overload protector |
| 4) S50 | Connector for magnetic relay |
| 5) S70 | Connector for fan motor |
| 6) S80 | Connector for four way valve coil |
| 7) S90 | Connector for thermistors
(outdoor temperature, outdoor heat exchanger, discharge pipe) |
| 8) S100 | Connector for forced operation button PCB |
| 9) HL3, HN3 | Connector for filter PCB |
| 10)HR2 | Connector for reactor |
| 11)U, V, W | Connector for compressor |
| 12)FU2 | Fuse (3.15 A, 250 V) |
| 13)LED A | LED for service monitor (green) |
| 14)V1 | Varistor |
| 15)J4 | Jumper for facility setting
* Refer to page 120 for details. |
| 16)J5 | Jumper for improvement of defrost performance
* Refer to page 121 for details. |



2P254206-1
2P254206-11
2P358715-1

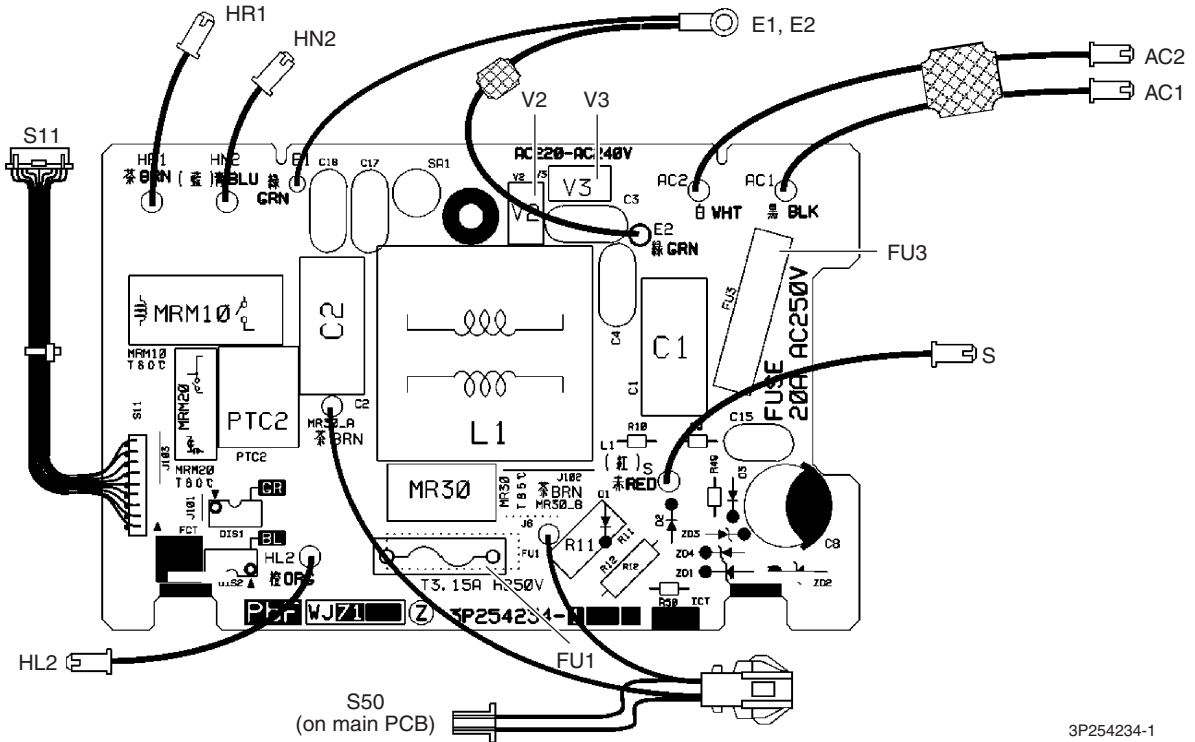


Caution Replace the PCB if you accidentally cut a wrong jumper.

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

Filter PCB (PCB1)

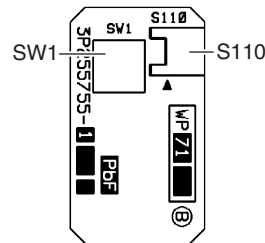
- 1) S11 Connector for main PCB
- 2) AC1, AC2, S Connector for terminal board
- 3) E1, E2 Terminal for earth wire
- 4) HL2, HN2 Connector for main PCB
- 5) HR1 Connector for reactor
- 6) FU1 Fuse (3.15 A, 250 V)
- 7) FU3 Fuse (20 A, 250 V)
- 8) V2, V3 Varistor



3P254234-1

Forced Operation Button PCB (PCB3)

- 1) S110 Connector for main PCB
 - 2) SW1 Forced cooling operation ON/OFF button
- * Refer to page 116 for details.

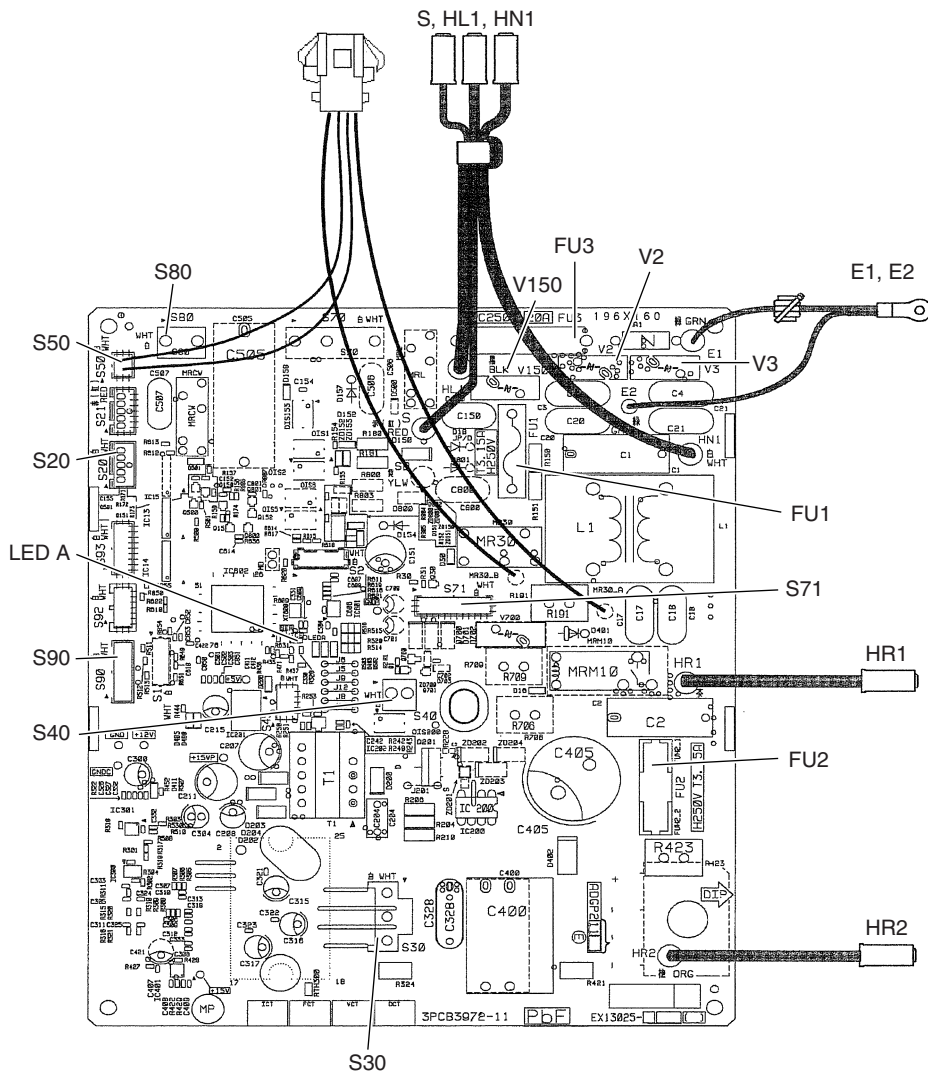


3P255755-1

2.4 RXS25/35L3V1B

Main PCB (PCB1)

- 1) S20 Connector for electronic expansion valve coil
- 2) S30 Connector for compressor motor
- 3) S40 Connector for overload protector
- 4) S50 Connector for magnetic relay
- 5) S71 Connector for DC fan motor
- 6) S80 Connector for four way valve coil
- 7) S90 Connector for thermistors
(outdoor temperature, outdoor heat exchanger, discharge pipe)
- 8) E1, E2 Terminal for earth wire
- 9) HL1, HN1, S Connector for terminal board
- 10) HR1, HR2 Connector for reactor
- 11) FU1, FU2 Fuse (3.15 A, 250 V)
- 12) FU3 Fuse (20 A, 250 V)
- 13) LED A LED for service monitor (green)
- 14) V2, V3, V150 Varistor



2P383853-2

Part 4

Functions and Control

1. Main Functions.....	29
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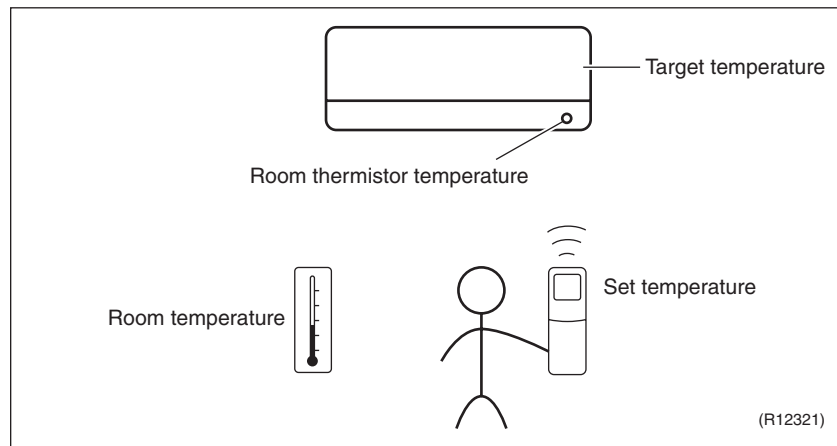
1. Main Functions

1.1 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



★ The illustration is for wall mounted type as representative.

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:

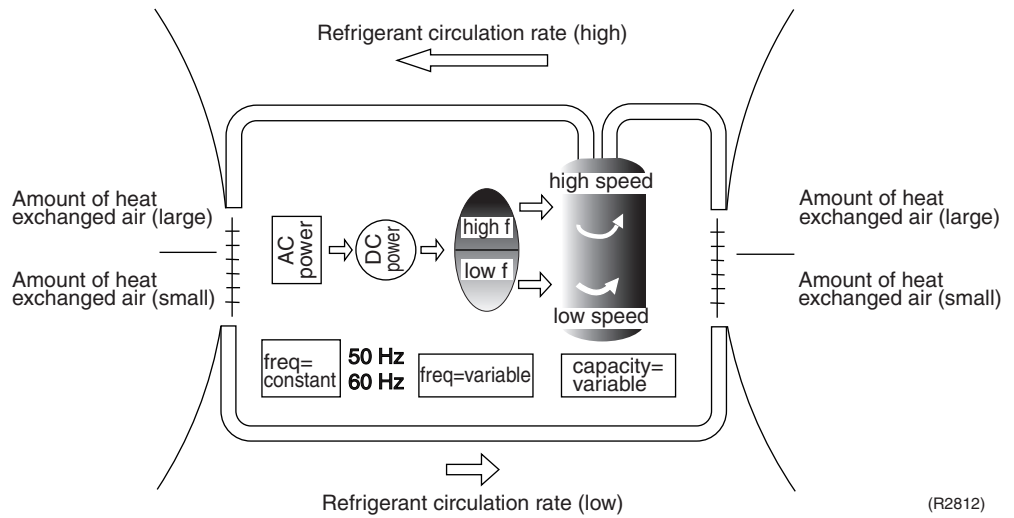
- Frequency restrictions
- Initial settings
- Forced cooling operation

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:

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. <ul style="list-style-type: none"> ■ 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.

The following drawing shows a schematic view of the inverter principle:



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 quick 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	<ul style="list-style-type: none"> ■ Four way valve operation compensation. Refer to page 45.
High	<ul style="list-style-type: none"> ■ Compressor protection function. Refer to page 45. ■ Discharge pipe temperature control. Refer to page 46. ■ Input current control. Refer to page 47. ■ Freeze-up protection control. Refer to page 48. ■ Heating peak-cut control. Refer to page 48. ■ Defrost control. Refer to page 50.

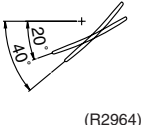
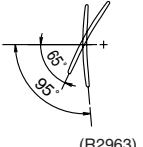
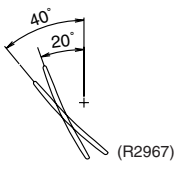
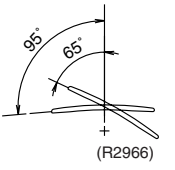
Forced Cooling Operation

Refer to page 116 for details.

1.3 Airflow Direction Control

Auto-Swing

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

	Up and Down	
	Cooling / Dry / Fan	Heating
Ceiling	 (R2964)	 (R2963)
Floor	 (R2967)	 (R2966)



1.4 Fan Speed Control for Indoor Unit


Outline

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

Automatic Fan Speed Control

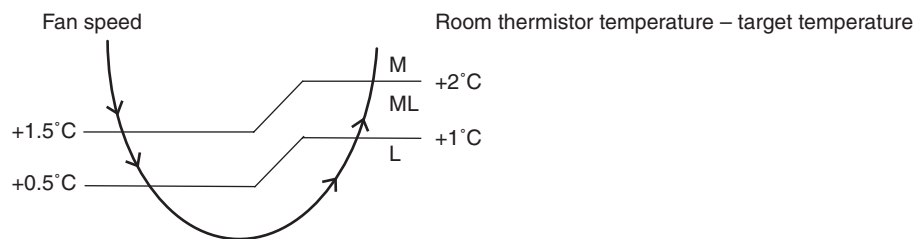
In automatic fan speed control, the step SL is not available.

Step	Cooling	Heating		
LLL				
LL				
L				
ML				
M				
MH				
H				
HH (POWERFUL)			(R6833)	(R6834)

 = 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.

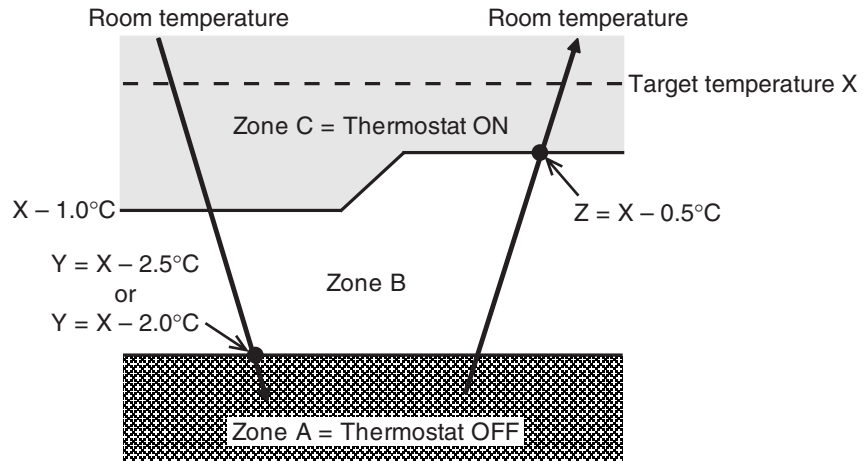
1.5 Program Dry Operation

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.



(R22443)

Room thermistor temperature at start-up	Target temperature X	Thermostat OFF point Y	Thermostat ON point Z ★
24°C or more	Room thermistor temperature at start-up	$X - 2.5^{\circ}\text{C}$	$X - 0.5^{\circ}\text{C}$
18 ~ 23.5°C		$X - 2.0^{\circ}\text{C}$	$X - 0.5^{\circ}\text{C}$
17.5°C or less	18°C	$X - 2.0^{\circ}\text{C} = 16^{\circ}\text{C}$	$X - 0.5^{\circ}\text{C} = 17.5^{\circ}\text{C}$

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

1.6 Automatic Operation

Outline

Automatic Cooling/Heating Function

When the automatic operation is selected with the remote controller, the microcomputer automatically determines the operation mode as cooling or heating according to the room temperature and the set temperature at start-up.

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

Detail

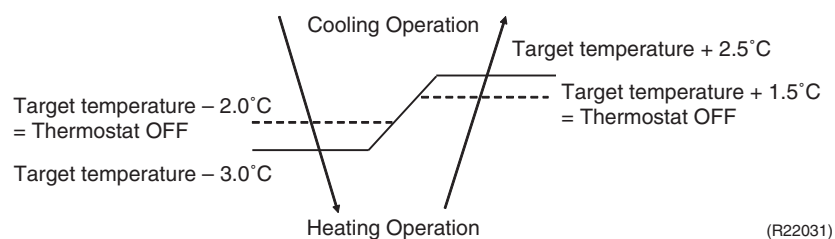
Ts: set temperature (set by remote controller)

Tt: target temperature (determined by microcomputer)

Tr: room thermistor temperature (detected by room temperature thermistor)

C: correction value

- The set temperature (Ts) determines the target temperature (Tt).
(Ts = 18 ~ 30°C).
- The target temperature (Tt) is calculated as;
 $Tt = Ts + C$
where C is the correction value.
C = 0°C
- Thermostat ON/OFF point and operation mode switching point are as follows.
Tr means the room thermistor temperature.
 - Heating → Cooling switching point:
 $Tr \geq Tt + 2.5^\circ\text{C}$
 - Cooling → Heating switching point:
 $Tr < Tt - 3.0^\circ\text{C}$
 - Thermostat ON/OFF point is the same as the ON/OFF point of cooling or heating operation.
- During initial operation
 - $Tr \geq Ts$: Cooling operation
 - $Tr < Ts$: Heating operation



Ex: When the target temperature is 25°C

Cooling → 23.0°C: Thermostat OFF → 22.0°C: Switch to heating

Heating → 26.5°C: Thermostat OFF → 27.5°C: Switch to cooling

1.7 Thermostat Control

Outline

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

Detail

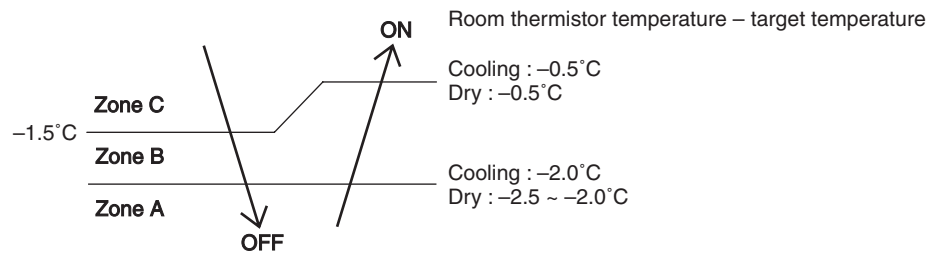
Thermostat OFF Condition

- ♦ The temperature difference is in the zone A.

Thermostat ON Conditions

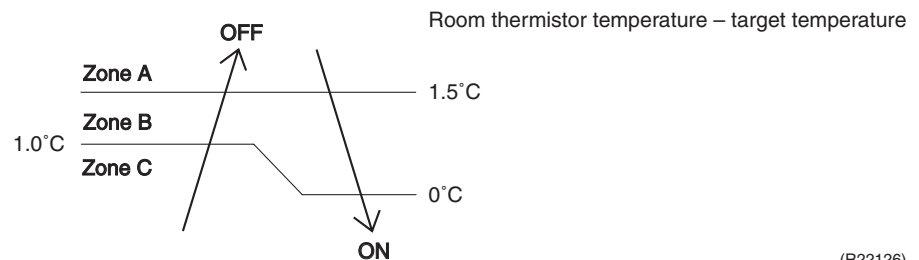
- ♦ The temperature difference returns to the zone C after being in the zone A.
- ♦ The system resumes from defrost control in any zones except A.
- ♦ The operation turns on in any zones except A.
- ♦ The monitoring time has passed while the temperature difference is in the zone B.
(Cooling / Dry: 10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

Cooling/Dry



(R22110)

Heating



(R22126)



Refer to Temperature Control on page 29 for details.

1.8 NIGHT SET Mode

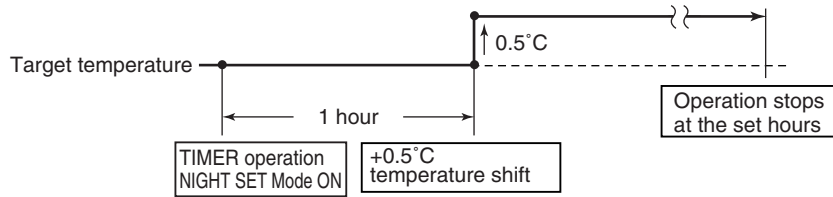
Outline

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

Detail

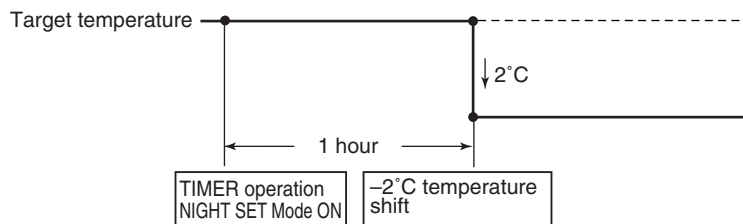
NIGHT SET Mode continues operation at the target temperature for the first one hour, then automatically raises the target temperature slightly in cooling, or lowers it slightly in heating. This prevents excessive cooling in summer and excessive heating in winter to ensure comfortable sleeping conditions,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

Cooling



(R22018)

Heating



(R22029)

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

1. 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. If this button is pressed in POWERFUL operation, the POWERFUL operation is canceled and this function becomes effective.

- The **HOME LEAVE** button is ineffective in dry operation and fan operation.

2. Details of Function

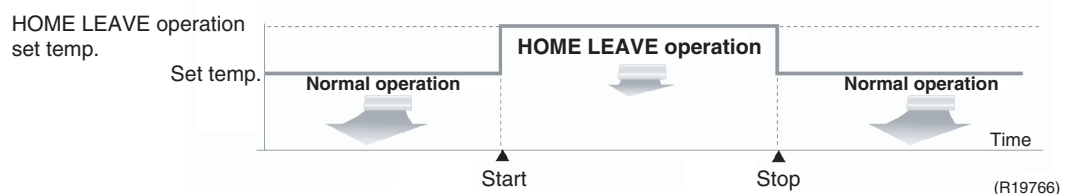
A mark representing HOME LEAVE is indicated on the display of the remote controller. The indoor unit is operated according to the set temperature and airflow rate for HOME LEAVE which were recorded in the memory of the remote controller.

The LED (red) of indoor unit representing HOME LEAVE lights up. (It goes out when the operation is stopped.)

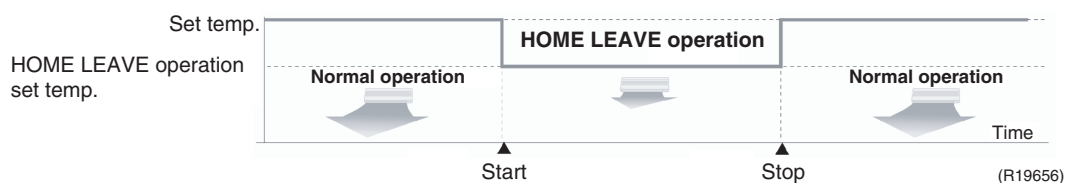
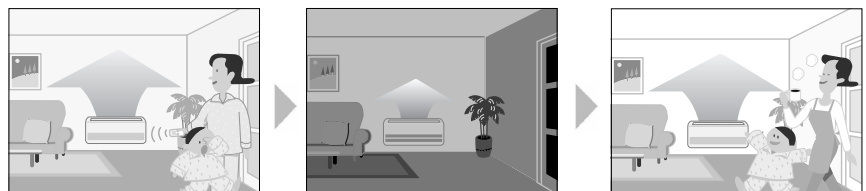
3. End of Function

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

Cooling






Heating



How to Set the Temperature and Airflow Rate

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

	Initial setting		Selectable range	
	Temperature	Airflow rate	Temperature	Airflow rate
Cooling	25°C	(A)	18 ~ 32°C	5 steps, (A), (B)
Heating	25°C	(A)	10 ~ 30°C	5 steps, (A), (B)

1. Press the **HOME LEAVE** button.
Make sure  is displayed on the remote controller display.
2. Adjust the temperature with  or  as you like.
3. Adjust the airflow rate with the **FAN** setting button as you like.

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.

Others

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

1.10 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.

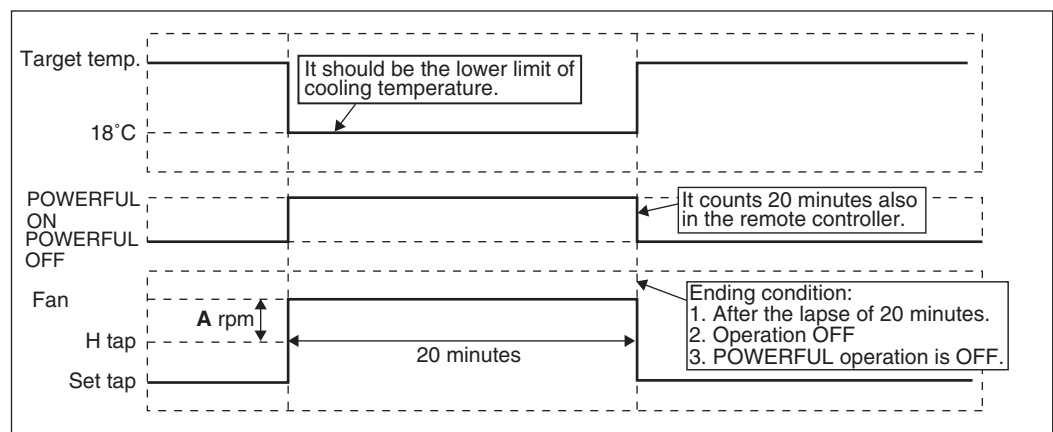
Detail

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	30°C
FAN	H tap + A rpm	—
AUTO	Same as cooling / heating in POWERFUL operation	The target temperature is kept unchanged.

A = 50 rpm

Ex: POWERFUL operation in cooling



(R19177)



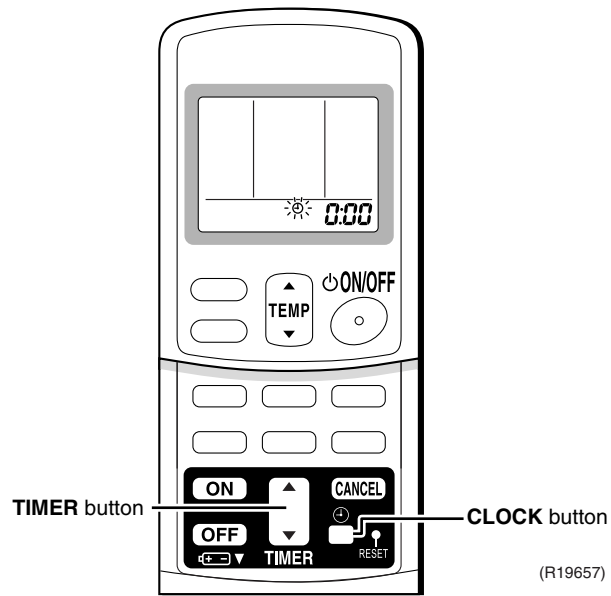
Note: POWERFUL Operation cannot be used together with OUTDOOR UNIT QUIET Operation.

1.11 Clock Setting

ARC433 Series

The clock can be set by taking the following steps:

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



1.12 Other Functions

1.12.1 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.



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

1.12.2 Signal Receiving Sign

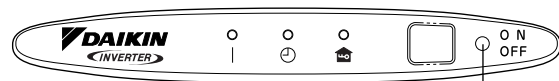
When the indoor unit receives a signal from the remote controller, the unit emits a signal receiving sound.

1.12.3 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
Cooling Only	COOL	22°C	Automatic
Heat Pump	AUTO	25°C	Automatic



ON/OFF button

(R19658)

Forced cooling operation

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

Refer to page 116 for details.



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

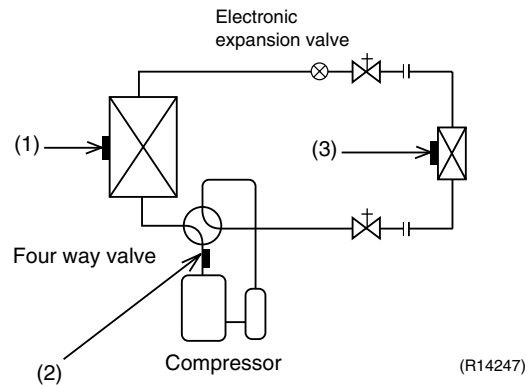
1.12.4 Auto-restart Function

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.



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

2. Thermistor Functions



(1) Outdoor Heat Exchanger Thermistor

1. The outdoor heat exchanger thermistor is used for controlling the target discharge pipe temperature. The system sets the target discharge pipe temperature according to the outdoor and indoor heat exchanger temperature, and controls the electronic expansion valve opening so that the target discharge pipe temperature can be obtained.
2. In cooling operation, the outdoor heat exchanger thermistor is used for detecting the disconnection of the discharge pipe thermistor. When the discharge pipe temperature drops below the outdoor heat exchanger temperature by more than a certain value, the discharge pipe thermistor is judged as disconnected.
3. In cooling operation, the outdoor heat exchanger thermistor is used for high pressure protection.

(2) Discharge Pipe Thermistor

1. The discharge pipe thermistor is used for controlling discharge pipe temperature. If the discharge pipe temperature (used in place of the inner temperature of the compressor) rises abnormally, the operating frequency becomes lower or the operation halts.
2. The discharge pipe thermistor is used for detecting disconnection of the discharge pipe thermistor.

(3) Indoor Heat Exchanger Thermistor

1. The indoor heat exchanger thermistor is used for controlling the target discharge pipe temperature. The system sets the target discharge pipe temperature according to the outdoor and indoor heat exchanger temperature, and controls the electronic expansion valve opening so that the target discharge pipe temperature can be obtained.
2. In cooling operation, the indoor heat exchanger thermistor is used for freeze-up protection control. If the indoor heat exchanger temperature drops abnormally, the operating frequency becomes lower or the operation halts.
3. In heating operation, the indoor heat exchanger thermistor is used for detecting the disconnection of the discharge pipe thermistor. When the discharge pipe temperature drops below the indoor heat exchanger temperature by more than a certain value, the discharge pipe thermistor is judged as disconnected.

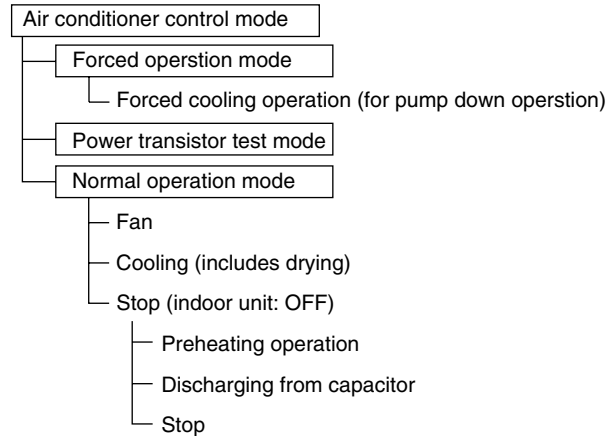
3. Control Specification

3.1 Mode Hierarchy

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

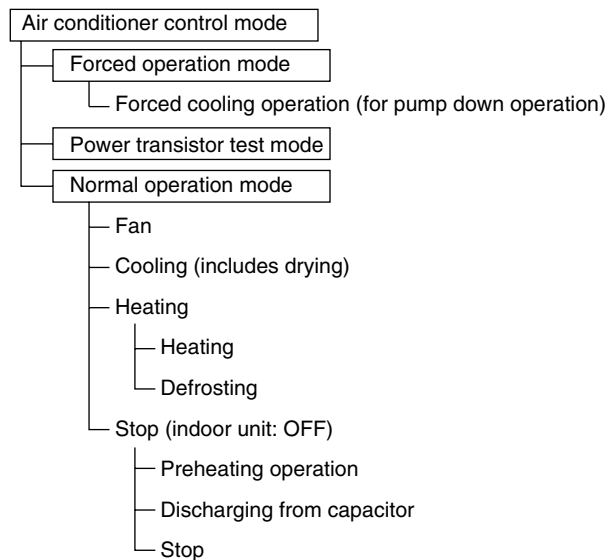
Detail

Cooling Only Model



(R19505)

Heat Pump Model



(R19522)



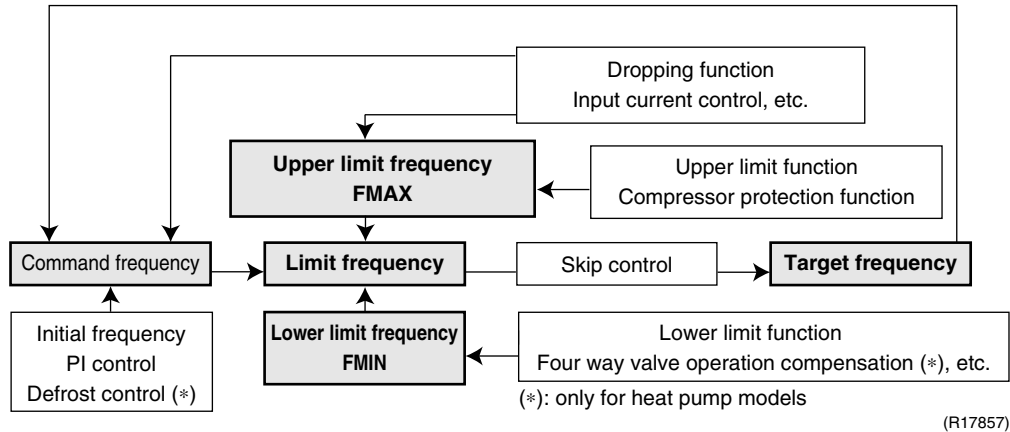
Note: Unless specified otherwise, a dry operation command is regarded as cooling operation.

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

For Cooling Only Model

1. Determine command frequency

Command frequency is determined in the following order of priority.

1. Forced cooling
2. 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, freeze-up protection.

3. Determine lower limit frequency

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

Pressure difference upkeep.

4. Determine prohibited frequency

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

For Heat Pump Model

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, freeze-up 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.

 ΔD signal: Indoor Frequency Command

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

Temperature difference	ΔD signal	Temperature difference	ΔD signal	Temperature difference	ΔD signal	Temperature difference	ΔD signal
-2.0	*OFF	0	4	2.0	8	4.0	C
-1.5	1	0.5	5	2.5	9	4.5	D
-1.0	2	1.0	6	3.0	A	5.0	E
-0.5	3	1.5	7	3.5	B	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 management when other controls are functioning

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

4. Upper and lower limit of frequency by PI control

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

3.3 Controls at Mode Changing / Start-up

3.3.1 Preheating Control

Outline

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

Detail

■ RK(X)S25/35E2V1B, RK(X)S25/35G2V1B

ON Condition

- ◆ When the discharge pipe temperature is below 10°C, the inverter operation in open phase starts.

OFF Condition

- ◆ When the discharge pipe temperature is higher than 12°C, the inverter operation in open phase stops.

■ RK(X)S25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B, RXS25/35L3V1B

Outdoor temperature \geq A°C → Control I

Outdoor temperature $<$ A°C → 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 \geq 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 \geq 90°C

	A (°C)	B (°C)	C (°C)	D (°C)	E (°C)
RK(X)S25/35G2V1B9 RXS25/35J2V1B	7	10	12	20	22
RXS25K3V1B RXS35K2V1B RXS25/35L2V1B RXS25/35L3V1B	-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 mode. (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 160 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.

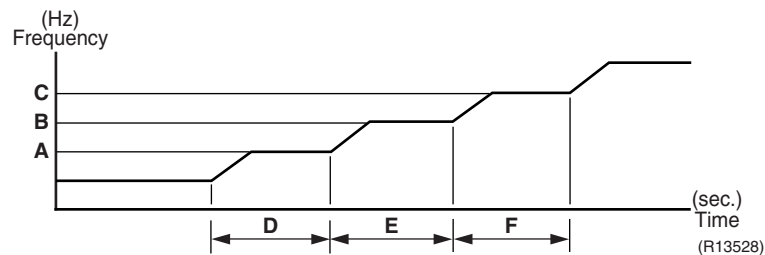
	Cooling	Heating
A (Hz)	68	66
B (seconds)	45	

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.)



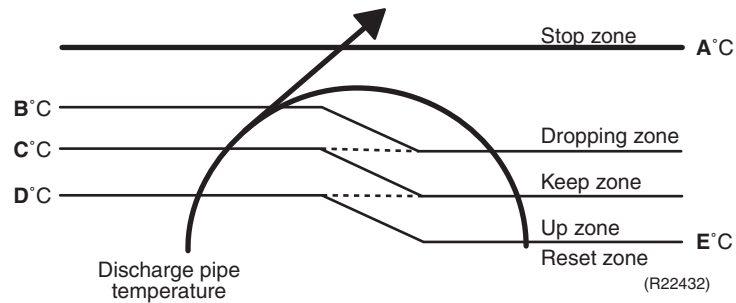
	RK(X)S25/35E2V1B RK(X)S25/35G2V1B RK(X)S25/35G2V1B9 RXS25/35J2V1B RXS25K3V1B RXS35K2V1B RXS25/35L2V1B	RXS25/35L3V1B
A (Hz)	48	40
B (Hz)	64	54
C (Hz)	88	72
D (seconds)	240	180
E (seconds)	360	420
F (seconds)	180	180

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



	RK(X)S25/35E2V1B RK(X)S25/35G2V1B RK(X)S25/35G2V1B9 RXS25/35J2V1B RXS25K3V1B RXS35K2V1B RXS25/35L2V1B	RXS25/35L3V1B
A (°C)	110	110
B (°C)	105	103
C (°C)	101	98
D (°C)	99	93
E (°C)	97	88

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.

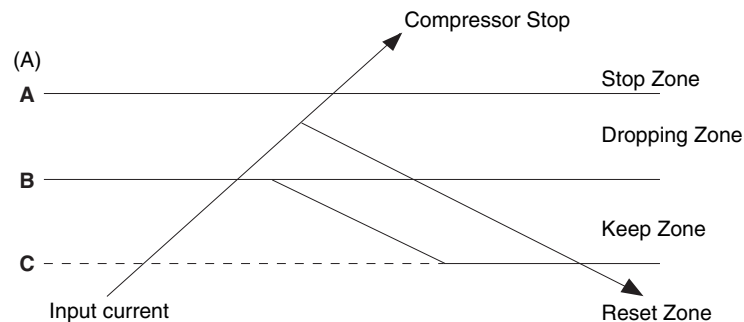
3.5 Input Current Control

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



(R14643)

Frequency control in each zone

Stop zone

- After the input current remains in the stop zone for 2.5 seconds, 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.

	RK(X)S25E2V1B		RK(X)S25G2V1B		RK(X)S25G2V1B9 RXS25J2V1B	
	Cooling	Heating	Cooling	Heating	Cooling	Heating
A (A)	9.25		9.25		9.25	
B (A)	6.0	7.5	6.5	7.5	6.25	7.5
C (A)	5.25	6.75	5.75	6.75	5.5	6.75

	RXS25K3V1B RXS25L2V1B RXS25L3V1B		RK(X)S35E2V1B RK(X)S35G2V1B		RK(X)S35G2V1B9 RXS35J2V1B RXS35K2V1B RXS35L2V1B RXS35L3V1B	
	Cooling	Heating	Cooling	Heating	Cooling	Heating
A (A)	9.25		9.25		9.25	
B (A)	7.5		7.25	8.25	8.25	
C (A)	6.75		6.5	7.5	7.5	

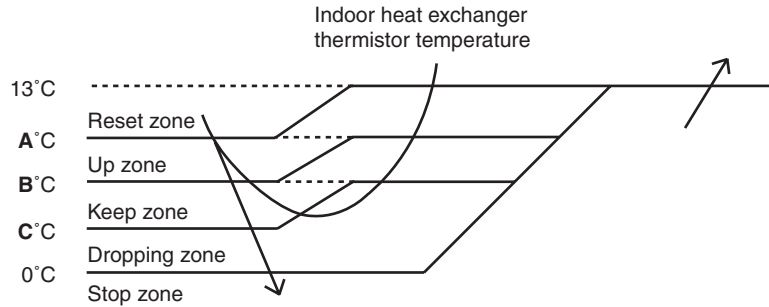
Limitation of current dropping and stop value according to the outdoor temperature

- 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.



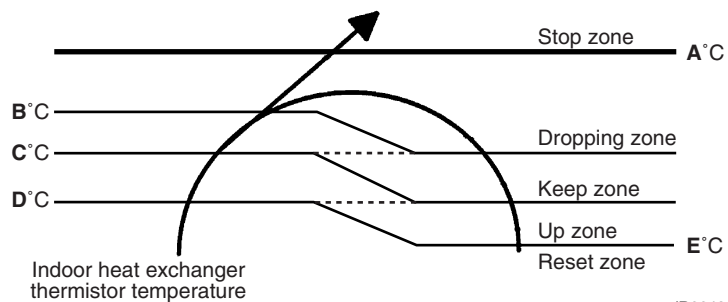
(R22433)

A (°C)	B (°C)	C (°C)
7	5	3

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.



(R22434)

	RXS25/35E2V1B RXS25/35G2V1B RXS25/35G2V1B9 RXS25/35J2V1B RXS25K3V1B RXS35K2V1B RXS25/35L2V1B	RXS25/35L3V1B
A (°C)	65	63
B (°C)	56	56
C (°C)	53	53
D (°C)	51	51
E (°C)	46	46

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.

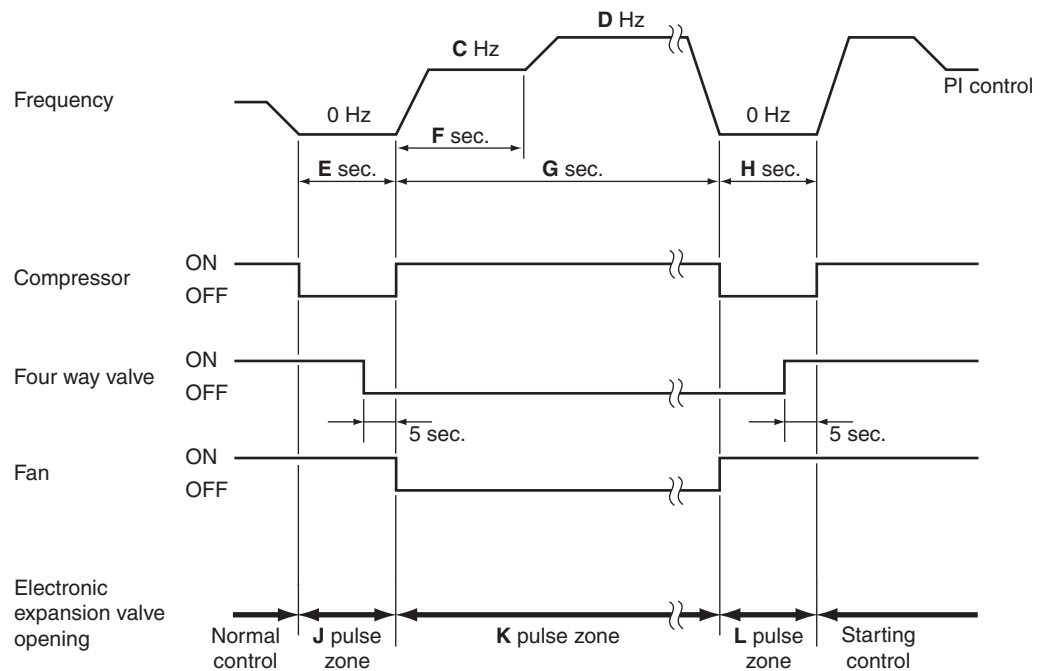
Detail

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 pass after the start of the operation, or ending the previous defrosting.

Conditions for Canceling Defrost

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



(R22034)

	RXS25/35E2V1B	RXS25/35G2V1B RXS25/35G2V1B9 RXS25/35J2V1B	RXS25K3V1B RXS25L2V1B	RXS35K2V1B RXS35L2V1B	RXS25/35L3V1B
A (minutes)	28	28	28	28	28
B (°C)	4 ~ 18	4 ~ 18	4 ~ 18	4 ~ 18	4 ~ 18
C (Hz)	74	76	68	76	64 ★
D (Hz)	86	86	86	86	64 ★
E (seconds)	50	50	50	50	50
F (seconds)	60	60	60	60	60
G (seconds)	600	600	600	600	600
H (seconds)	50	60	50	60	60
J (pulse)	450	450	450	450	450
K (pulse)	350	350	350 ~ 400	200 ~ 300	380
L (pulse)	450	450	450	450	450

★: 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.

Control	Status							
	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	—	●	—	—	—	—	—	—
Control when the frequency changes	—	—	●	—	●	—	—	—
Target discharge pipe temperature control	—	—	—	●	—	—	—	—
Discharge pipe thermistor disconnection control	—	—	—	—	—	●	●	—
High discharge pipe temperature control	—	●	●	●	●	—	—	—
Defrost control (heating only)	—	—	—	—	—	—	—	●
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 develops the pressure equalization.

3.11.3 Opening Limit Control

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

Maximum opening (pulse)	480
Minimum opening (pulse)	52

The electronic expansion valve is fully closed when cooling operation stops, and is controlled at a fixed opening 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 valve 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

Outline

The disconnection of the discharge pipe thermistor is detected by comparing the discharge pipe temperature with the condensation temperature. If the discharge pipe thermistor is disconnected, the electronic expansion valve opens according to the outdoor temperature and the operation frequency, operates for a specified time, and then stops.

After 3 minutes, the operation restarts and checks if the discharge pipe thermistor is disconnected. If the discharge pipe thermistor is disconnected, the system stops after operating for a specified time.

If the disconnection is detected repeatedly, the system is shut down. When the compressor runs for 60 minutes without any error, the error counter is reset.

Detail

Determining thermistor disconnection

When the starting control (cooling: **A** seconds, heating: **B** seconds) finishes, the detection timer for disconnection of the discharge pipe thermistor (**C** seconds) starts. When the timer is over, the following adjustment is made.

1. When the operation mode is cooling

When the following condition is fulfilled, the discharge pipe thermistor disconnection is ascertained.

Discharge pipe temperature + 6°C < outdoor heat exchanger temperature

2. When the operation mode is heating

When the following condition is fulfilled, the discharge pipe thermistor disconnection is ascertained.

Discharge pipe temperature + 6°C < indoor heat exchanger temperature

A (seconds)	10
B (seconds)	120
C (seconds)	810

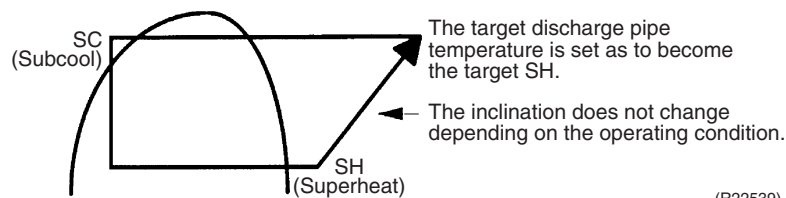
When the thermistor is disconnected

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)



(R22539)

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

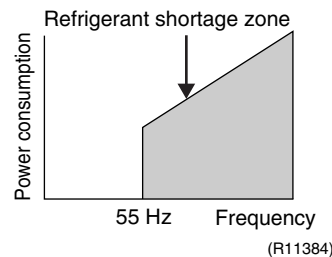
- If the OL (compressor head) temperature exceeds 120°C, the system shuts down the compressor.
- If the inverter current exceeds 9.25 A, the system shuts down the compressor.

3.12.3 Refrigerant Shortage Detection

I: Detecting by power consumption

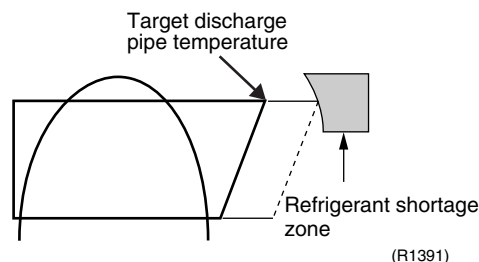
If the power consumption is below the specified value and the frequency is higher than the specified frequency, it is regarded as refrigerant shortage.

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



II: Detecting by discharge pipe temperature

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



III: Detecting by the difference of temperature

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



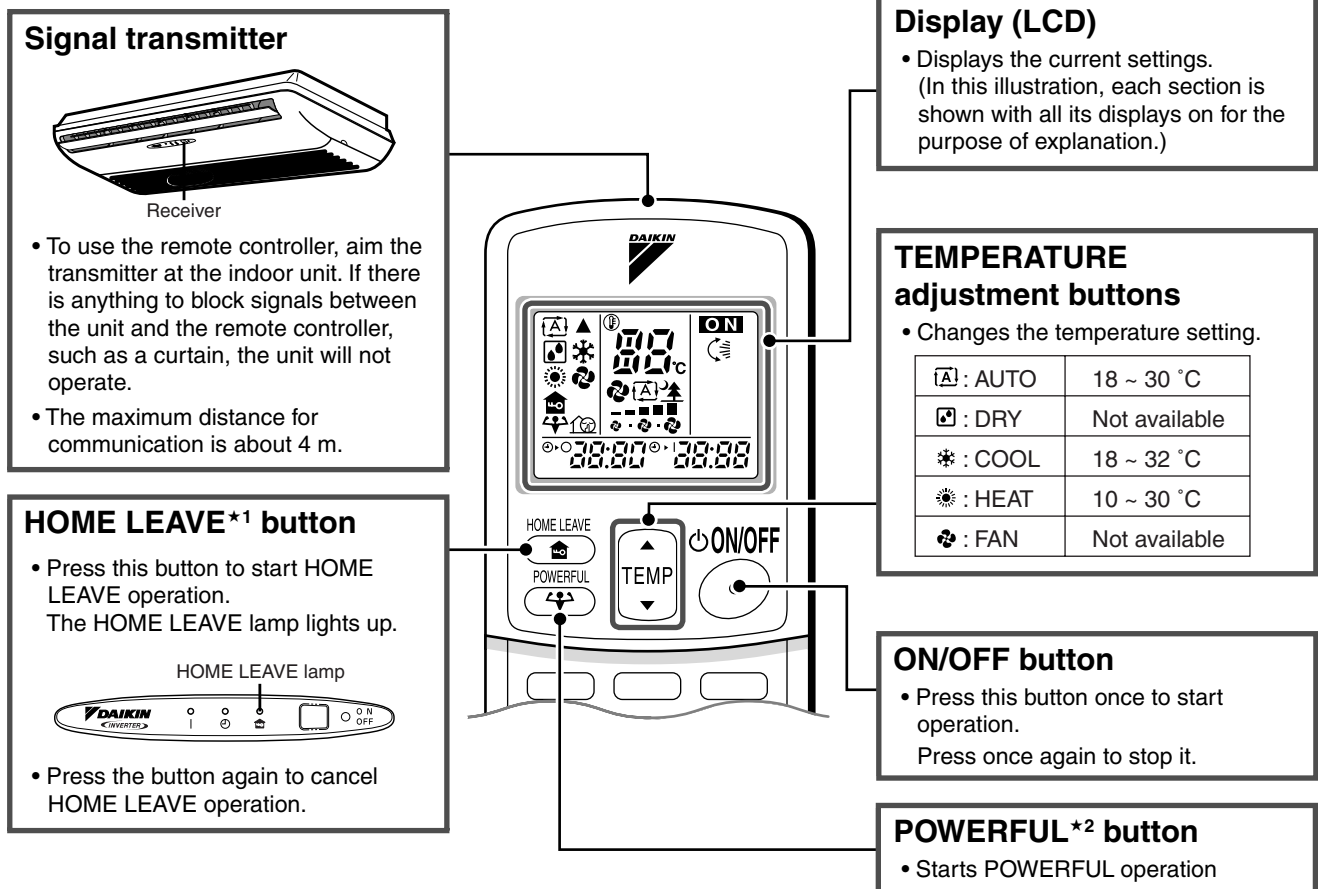
Refer to page 70 for details.

Part 5

Remote Controller

1. Remote Controller56

1. Remote Controller



(R22971)

Heat pump model	ARC433B67
Cooling only model	ARC433B68

Reference

Refer to the following pages for details.

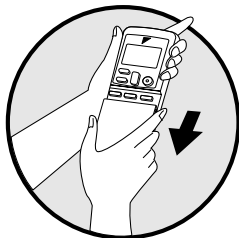
★1	HOME LEAVE operation	P.36
★2	Inverter POWERFUL operation	P.37



Note:

Refer to the operation manual of applicable model for details. You can download operation manuals from Daikin Business Portal:
 Daikin Business Portal → Document Search → Item Category → Installation/Operation Manual
 (URL: https://global1d.daikin.com/business_portal/login/)

Open the Front Cover



Mode button

- Selects the operation mode.

QUIET button

- Starts OUTDOOR UNIT QUIET operation
- OUTDOOR UNIT QUIET operation is not available in FAN and DRY operation
- OUTDOOR UNIT QUIET operation and POWERFUL operation cannot be used at the same time. Priority is given to the function you pressed last.

ON TIMER button

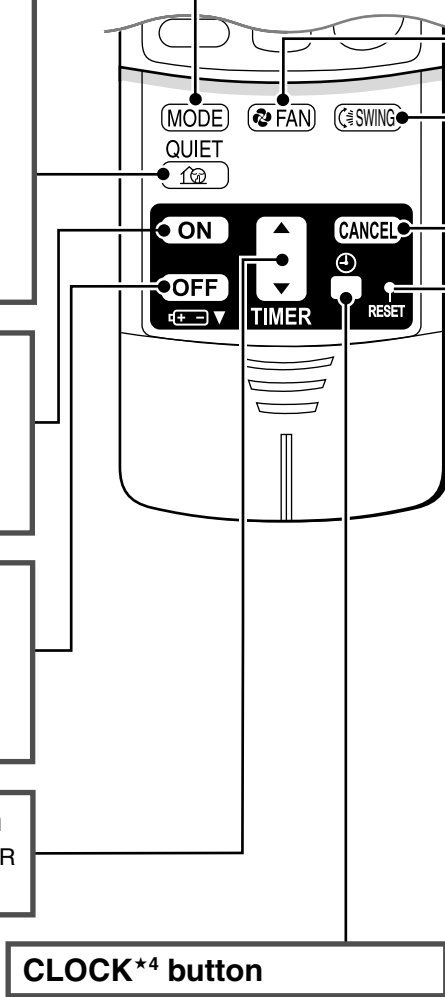
- Press this button and adjust the time with the TIMER setting button. Press this button again to complete TIMER setting.

OFF TIMER button

- Press this button and adjust the time with the TIMER setting button. Press this button again to complete TIMER setting.

TIMER Setting button

- Changes the ON/OFF TIMER settings.



FAN setting button

- Selects the airflow rate setting every time you press this button.

- In indoor unit quiet operation, operation sound becomes weak. (The airflow rate also decreases.)
- In DRY operation, the airflow rate setting is not available.

SWING*3 button

- Adjusts the airflow direction.
- When you press the SWING button, the flap moves up and down. The flap stops when you press the SWING button again.

TIMER CANCEL button

- Cancels the timer setting.

RESET button

- Restarts the unit if it freezes.
- Use a thin object to push.

CLOCK*4 button

(R22972)

Reference

Refer to the following pages for details.

★3	Auto-swing	P.31
★4	Clock setting	P.38



Note:

Refer to the operation manual of applicable model for details. You can download operation manuals from Daikin Business Portal:
 Daikin Business Portal → Document Search → Item Category → Installation/Operation Manual
 (URL: https://global1d.daikin.com/business_portal/login/)

Part 6

Service Diagnosis

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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 is not available when the outdoor temperature is 18°CWB or higher, and cooling operation is not available when the outdoor temperature is below -10°CDB.	—
	Diagnose with remote controller indication.	—	64
	Check the remote controller addresses.	Check if address settings for the remote controller and indoor unit are correct.	119
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 is not available when the outdoor temperature is 18°CWB or higher, and cooling operation is not available when the outdoor temperature is below -10°CDB.	—
	Diagnose with remote controller indication.	—	64
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 liquid pipe temperature to see if the electronic expansion valve works.	—
	Diagnose with remote controller indication.	—	64
	Diagnose by service port pressure and operating current.	Check for refrigerant shortage.	70
Large operating noise and vibrations	Check the output voltage of the power module.	—	112
	Check the power module.	—	—
	Check the installation condition.	Check if the required spaces for installation (specified in the installation manual) are provided.	—

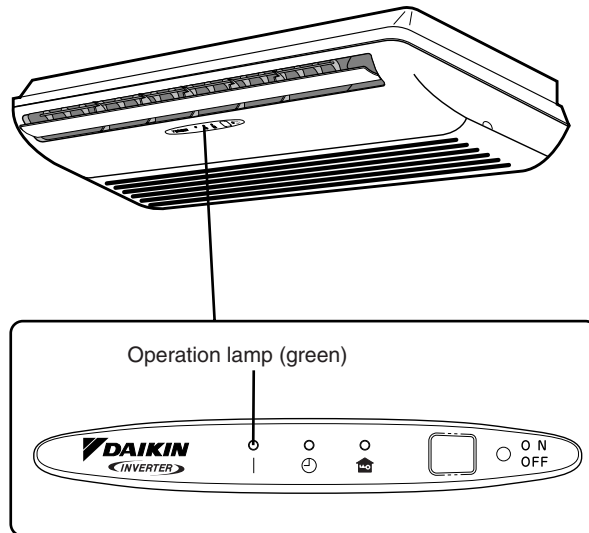
2. Troubleshooting with LED

2.1 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.



(R2974)

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 19 for the location of LED A.)

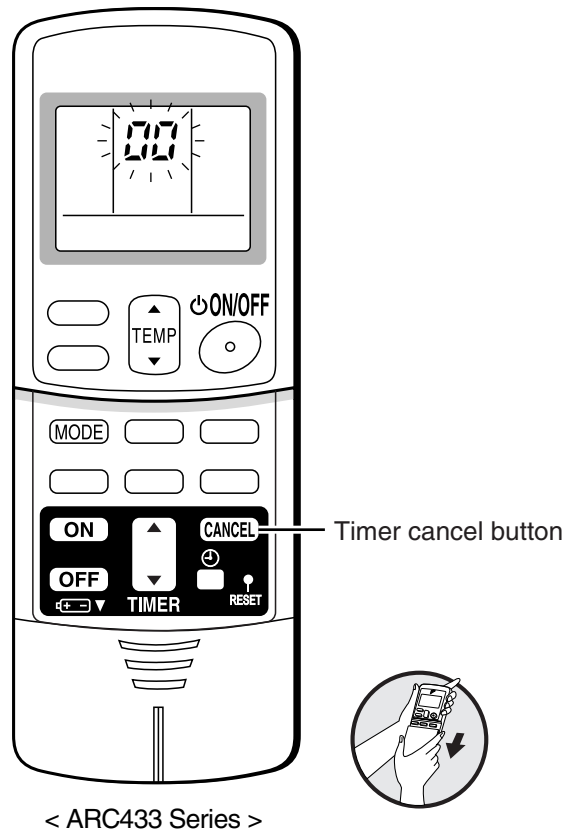
2.2 Outdoor Unit

The outdoor unit has a green LED (LED A) on the PCB. When the microcomputer works in order, the LED A blinks. (Refer to page 21, 23, 25, 27 for the location of LED A.)

3. Service Diagnosis

Method 1

- When the timer cancel button is held down for 5 seconds, **00** is displayed on the temperature display screen.



(R18206)

- Press the timer cancel button repeatedly until a long beep sounds.
 - The code indication changes in the sequence shown below.

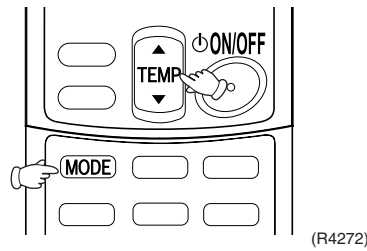
No.	Code	No.	Code	No.	Code
1	00	12	C7	23	H0
2	U4	13	H8	24	E1
3	F3	14	J3	25	P4
4	E6	15	R3	26	L3
5	L5	16	R1	27	L4
6	R6	17	C4	28	H6
7	E5	18	C5	29	H7
8	F6	19	H9	30	U2
9	C9	20	J6	31	U4
10	U0	21	U8	32	E8
11	E7	22	R5	33	R4


Note:

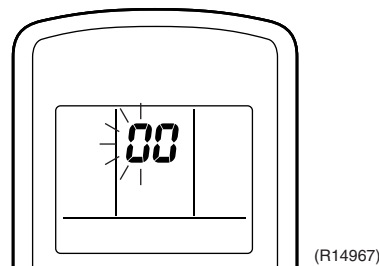
- A short beep or two consecutive beeps indicate non-corresponding codes.
- To return to the normal mode, hold the timer cancel button down for 5 seconds. When the remote controller is left untouched for 60 seconds, it also returns to the normal mode.
- Not all the error codes are displayed. When you cannot find the error code, try method 2. (→ Refer to page 62.)

Method 2

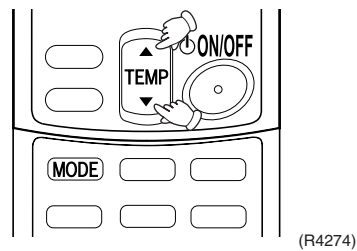
1. Press the center of the **TEMP** button and the **MODE** button at the same time to enter the diagnosis mode.



The left-side number blinks.

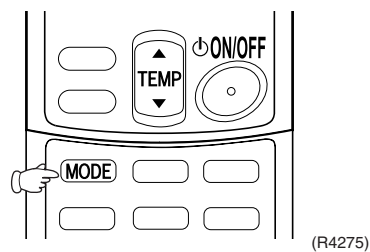


2. Press the **TEMP ▲** or **TEMP ▼** button and change the number until you hear the two consecutive beeps or the long beep.

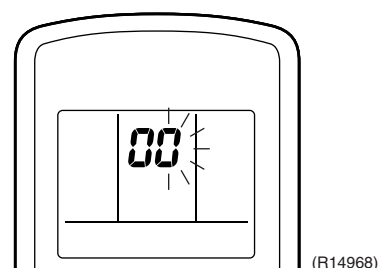


3. Diagnose by the sound.
 - ★ beep: The left-side number does not correspond with the error code.
 - ★ two consecutive beeps: The left-side number corresponds with the error code but the right-side number does not.
 - ★ long beep: Both the left-side and right-side numbers correspond with the error code. The numbers indicated when you hear the long beep are the error code. Error codes and description → Refer to page 64.

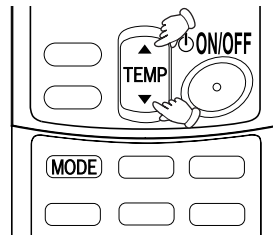
4. Press the **MODE** button.



The right-side number blinks.

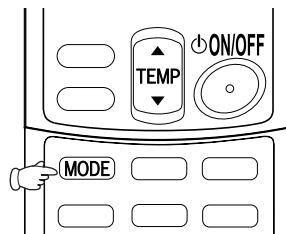


5. Press the **TEMP ▲** or **TEMP ▼** button and change the number until you hear the long beep.



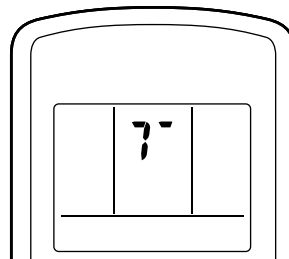
(R4277)

6. Diagnose by the sound.
- ★ beep: The left-side number does not correspond with the error code.
 - ★ two consecutive beeps: The left-side number corresponds with the error code but the right-side number does not.
 - ★ long beep: Both the left-side and right-side numbers correspond with the error code.
7. Determine the error code.
The numbers indicated when you hear the long beep are the error code.
Error codes and description → Refer to page 64.
8. Press the **MODE** button to exit from the diagnosis mode.



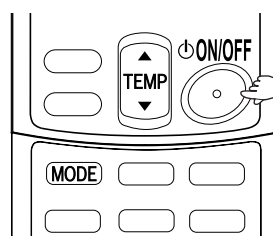
(R4278)

The display **7⁻** means the trial operation mode.
Refer to page 118 for trial operation.



(R14969)

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



(R9670)



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

4. Troubleshooting

4.1 Error Codes and Descriptions

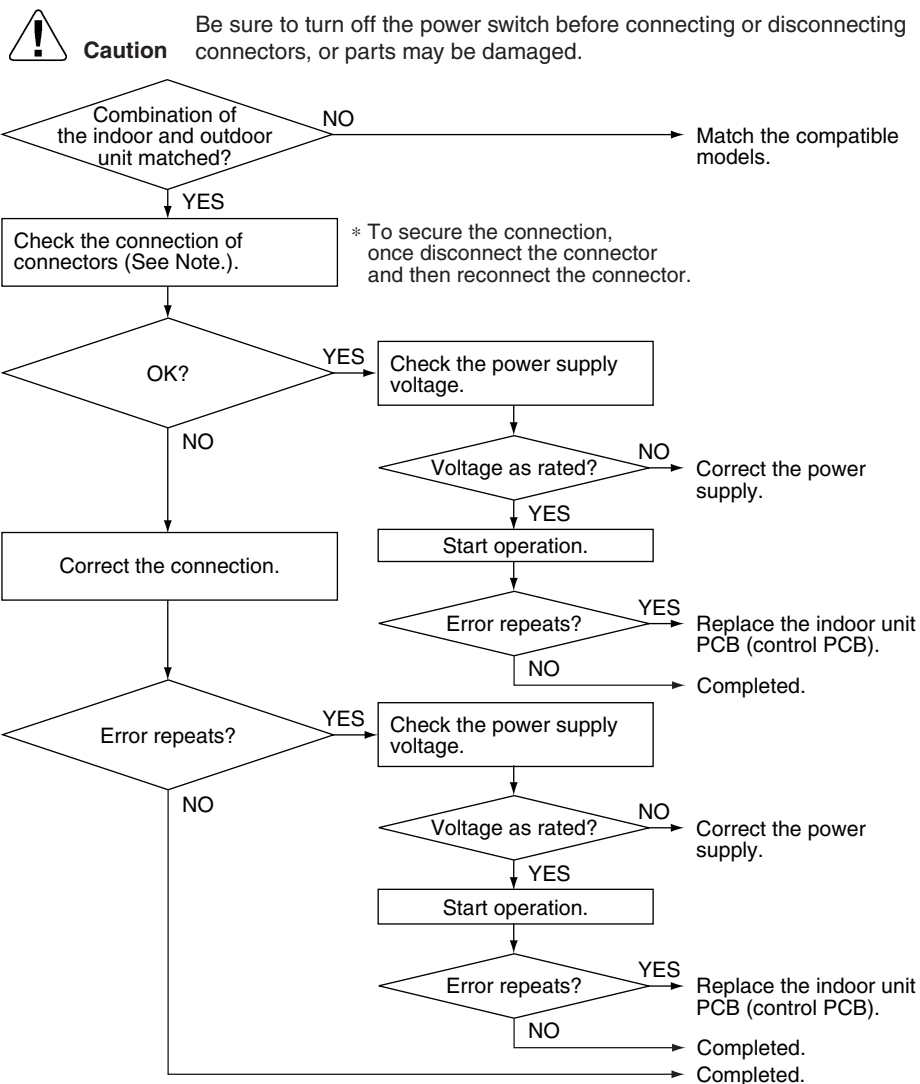
	Error Codes	Description	Reference Page
System	00	Normal	—
	U0★	Refrigerant shortage	70
	U2	Low-voltage detection or over-voltage detection	72
	U4	Signal transmission error (between indoor unit and outdoor unit)	74
	U8	Unspecified voltage (between indoor unit and outdoor unit)	76
Indoor Unit	P1	Indoor unit PCB abnormality	65
	P5	Freeze-up protection control / heating peak-cut control	66
	P6	Fan motor (AC motor) or related abnormality	67
	C4	Indoor heat exchanger thermistor or related abnormality	69
	C9	Room temperature thermistor or related abnormality	69
Outdoor Unit	E1	Outdoor unit PCB abnormality	77
	E5★	OL activation (compressor overload)	79
	E6★	Compressor lock	81
	E7★	DC fan lock	82
	E8	Input overcurrent detection	83
	E9	Four way valve abnormality	84
	F3	Discharge pipe temperature control	86
	F6	High pressure control in cooling	87
	H0	Compressor system sensor abnormality	88
	H6	Position sensor abnormality	89
	H8	DC voltage / current sensor abnormality	91
	H9	Outdoor temperature thermistor or related abnormality	92
	U3★	Discharge pipe thermistor or related abnormality	92
	U5	Outdoor heat exchanger thermistor or related abnormality	92
	L3	Electrical box temperature rise	94
	L4	Radiation fin temperature rise	97
	L5★	Output overcurrent detection	100
	P4	Radiation fin thermistor or related abnormality	92

★: Displayed only when system-down occurs.

4.2 Indoor Unit PCB Abnormality

Error Code	A1
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	<ul style="list-style-type: none"> ■ Wrong models interconnected ■ Defective indoor unit PCB ■ Disconnection of connector ■ Reduction of power supply voltage

Troubleshooting



(R22984)

i Note: Check the following connector.

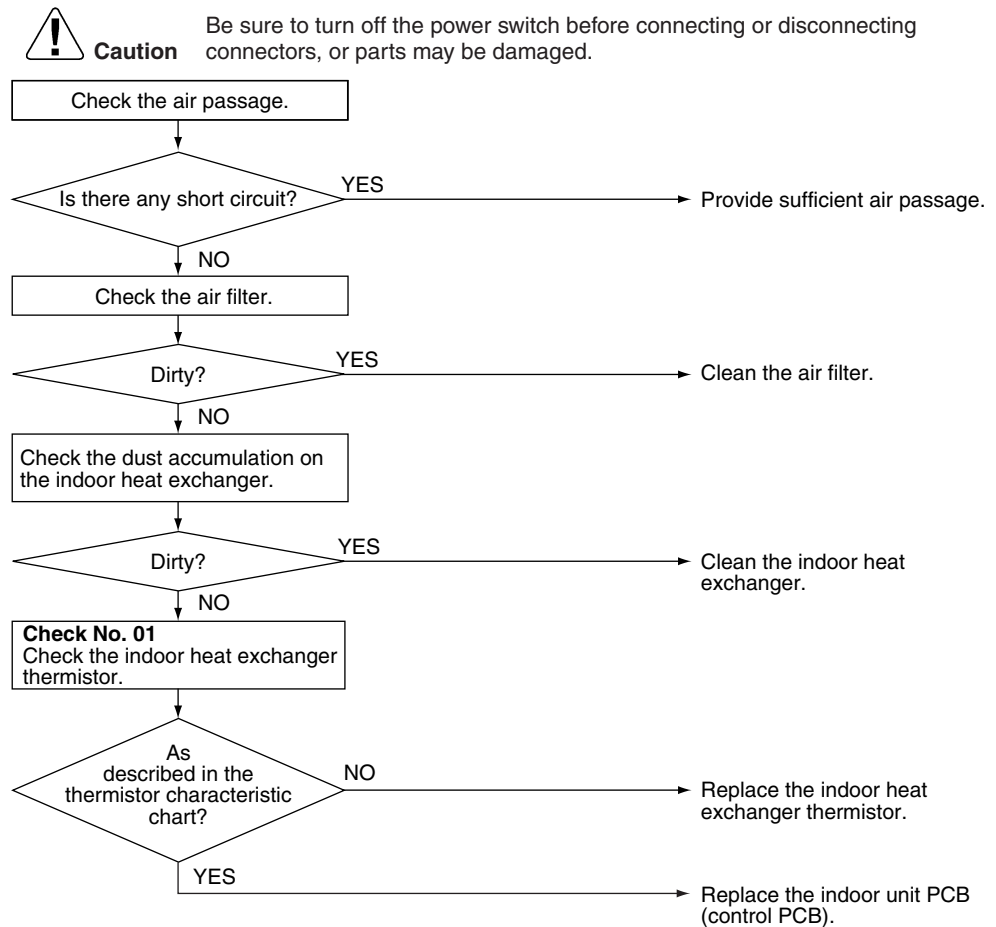
Model Type	Connector
Floor / ceiling suspended dual type	S36 ~ S37

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

Error Code	A5
Method of Error Detection	<ul style="list-style-type: none"> ■ Freeze-up protection control During cooling operation, the freeze-up protection control (operation halt) is activated according to the temperature detected by the indoor heat exchanger thermistor. ■ Heating peak-cut control During heating operation, the temperature detected by the indoor heat exchanger thermistor is used for the heating peak-cut control (operation halt, outdoor fan stop, etc.)
Error Decision Conditions	<ul style="list-style-type: none"> ■ Freeze-up protection control During cooling operation, the indoor heat exchanger temperature is below 0°C. ■ Heating peak-cut control During heating operation, the indoor heat exchanger temperature is above 65°C
Supposed Causes	<ul style="list-style-type: none"> ■ 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.102



(R21064)

4.4 Fan Motor (AC Motor) or Related Abnormality

Error Code	FE
Method of Error Detection	The rotation speed detected by the Hall IC during fan motor operation determines abnormal fan motor operation.
Error Decision Conditions	The detected rotation speed does not reach the demanded rotation speed of the target tap.
Supposed Causes	<ul style="list-style-type: none">■ Power supply voltage is not as specified.■ 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

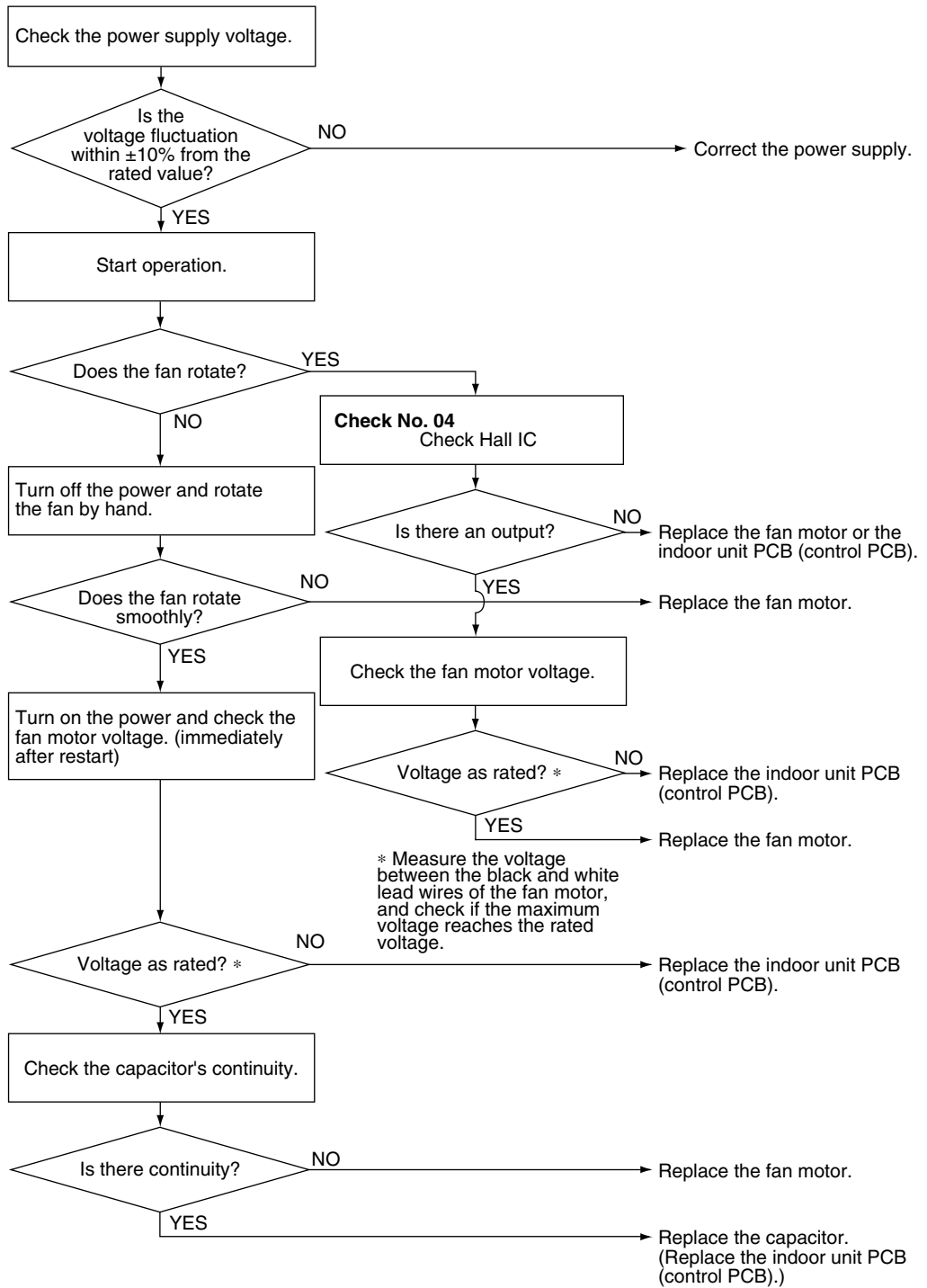
Troubleshooting



Check No.04
Refer to P.103



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



(R21106)

4.5 Thermistor or Related Abnormality (Indoor Unit)

Error Code **£4, £9**

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

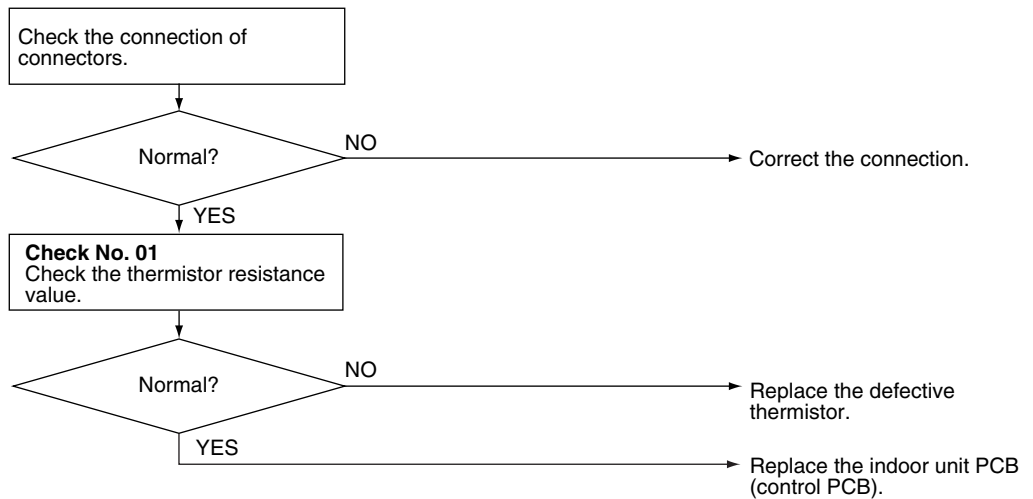


Check No.01
Refer to P.102



Caution

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



(R21870)

£4 : Indoor heat exchanger thermistor

£9 : Room temperature thermistor

4.6 Refrigerant Shortage

Error Code	U0																															
Method of Error Detection	<p>Refrigerant shortage detection I: Refrigerant shortage is detected by checking the input current value and the compressor running frequency. If the refrigerant is short, the input current is lower than the normal value.</p> <p>Refrigerant shortage detection II: Refrigerant shortage is detected by checking the discharge pipe temperature and the opening of the electronic expansion valve. If the refrigerant is short, the discharge pipe temperature tends to rise.</p> <p>Refrigerant shortage detection III: Refrigerant shortage is detected by checking the difference between suction and discharge temperature.</p>																															
Error Decision Conditions	<p>Refrigerant shortage detection I: The following conditions continue for 7 minutes.</p> <ul style="list-style-type: none"> ◆ Input current × input voltage ≤ A × output frequency + B ◆ Output frequency > C <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>A (coefficient)</th> <th>B (W)</th> <th>C (Hz)</th> </tr> </thead> <tbody> <tr> <td>640/256</td> <td>0</td> <td>55</td> </tr> </tbody> </table> <p>Refrigerant shortage detection II: The following conditions continue for 80 seconds.</p> <ul style="list-style-type: none"> ◆ Opening of the electronic expansion valve ≥ D ◆ Discharge pipe temperature > E × target discharge pipe temperature + F <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th></th> <th>D (pulse)</th> <th>E (constant)</th> <th>F (°C)</th> </tr> </thead> <tbody> <tr> <td>RK(X)S25/35E2V1B</td> <td>480</td> <td>255/256</td> <td>30</td> </tr> <tr> <td>RK(X)S25/35G2V1B RK(X)S25/35G2V1B9 RXS25/35J2V1B RXS25K3V1B RXS35K2V1B RXS25/35L2V1B RXS25/35L3V1B</td> <td>480</td> <td>128/128</td> <td>30</td> </tr> </tbody> </table> <p>Refrigerant shortage detection III: When the difference of the temperature is smaller than G°C, it is regarded as refrigerant shortage.</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Operation mode</th> <th>Description</th> <th>G (°C)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Cooling</td> <td>room thermistor temperature – indoor heat exchanger temperature</td> <td>4.0</td> </tr> <tr> <td>outdoor heat exchanger temperature – outdoor temperature</td> <td>4.0</td> </tr> <tr> <td rowspan="2">Heating</td> <td>indoor heat exchanger temperature – room thermistor temperature</td> <td>3.0</td> </tr> <tr> <td>outdoor temperature – outdoor heat exchanger temperature</td> <td>3.0</td> </tr> </tbody> </table> <ul style="list-style-type: none"> ■ If the error repeats, the system is shut down. ■ Reset condition: Continuous run for about 60 minutes without any other error 	A (coefficient)	B (W)	C (Hz)	640/256	0	55		D (pulse)	E (constant)	F (°C)	RK(X)S25/35E2V1B	480	255/256	30	RK(X)S25/35G2V1B RK(X)S25/35G2V1B9 RXS25/35J2V1B RXS25K3V1B RXS35K2V1B RXS25/35L2V1B RXS25/35L3V1B	480	128/128	30	Operation mode	Description	G (°C)	Cooling	room thermistor temperature – indoor heat exchanger temperature	4.0	outdoor heat exchanger temperature – outdoor temperature	4.0	Heating	indoor heat exchanger temperature – room thermistor temperature	3.0	outdoor temperature – outdoor heat exchanger temperature	3.0
A (coefficient)	B (W)	C (Hz)																														
640/256	0	55																														
	D (pulse)	E (constant)	F (°C)																													
RK(X)S25/35E2V1B	480	255/256	30																													
RK(X)S25/35G2V1B RK(X)S25/35G2V1B9 RXS25/35J2V1B RXS25K3V1B RXS35K2V1B RXS25/35L2V1B RXS25/35L3V1B	480	128/128	30																													
Operation mode	Description	G (°C)																														
Cooling	room thermistor temperature – indoor heat exchanger temperature	4.0																														
	outdoor heat exchanger temperature – outdoor temperature	4.0																														
Heating	indoor heat exchanger temperature – room thermistor temperature	3.0																														
	outdoor temperature – outdoor heat exchanger temperature	3.0																														
Supposed Causes	<ul style="list-style-type: none"> ■ 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 																															

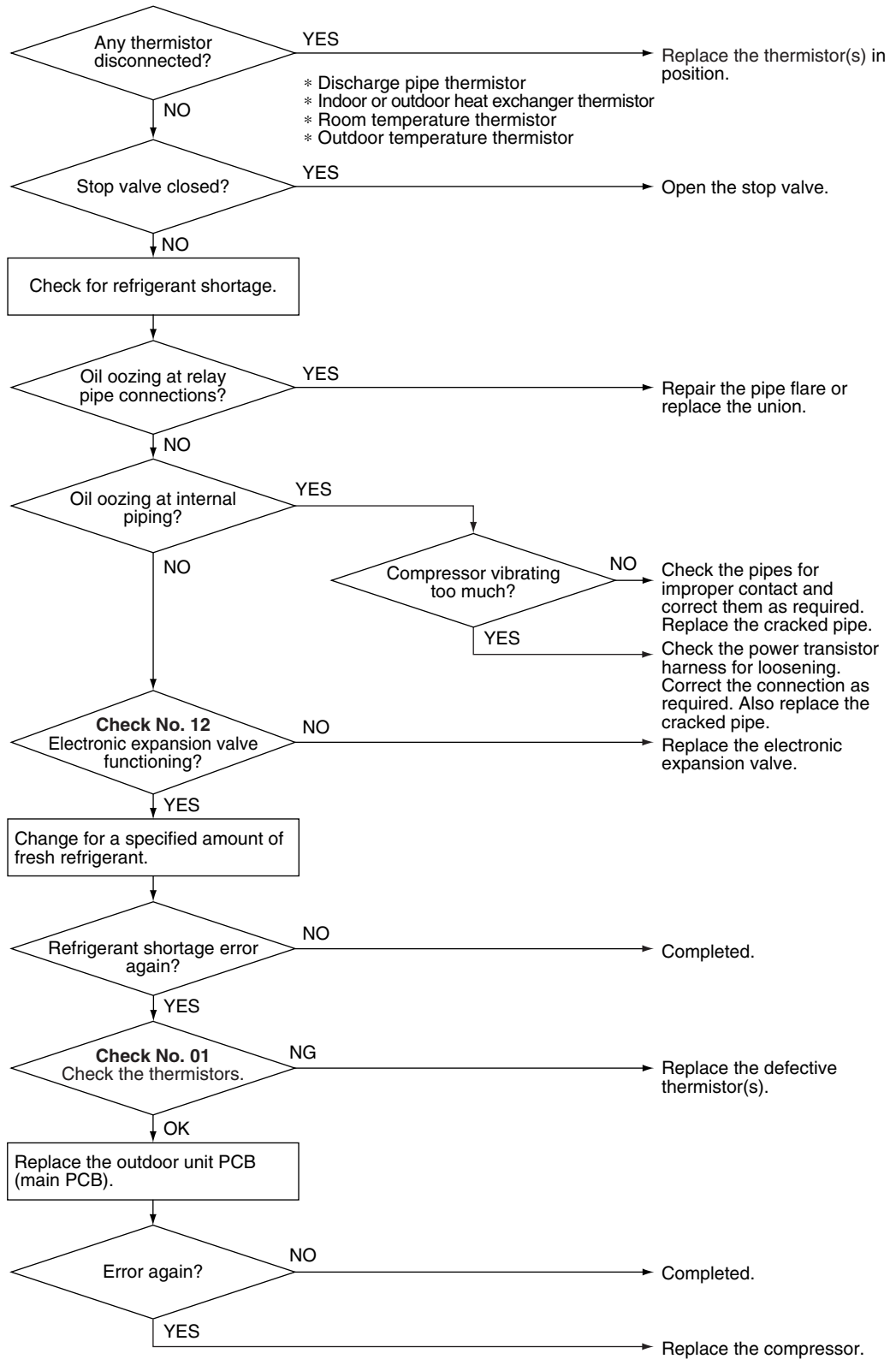
Troubleshooting


Check No.01
 Refer to P.102


Check No.12
 Refer to P.104



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



(R22985)

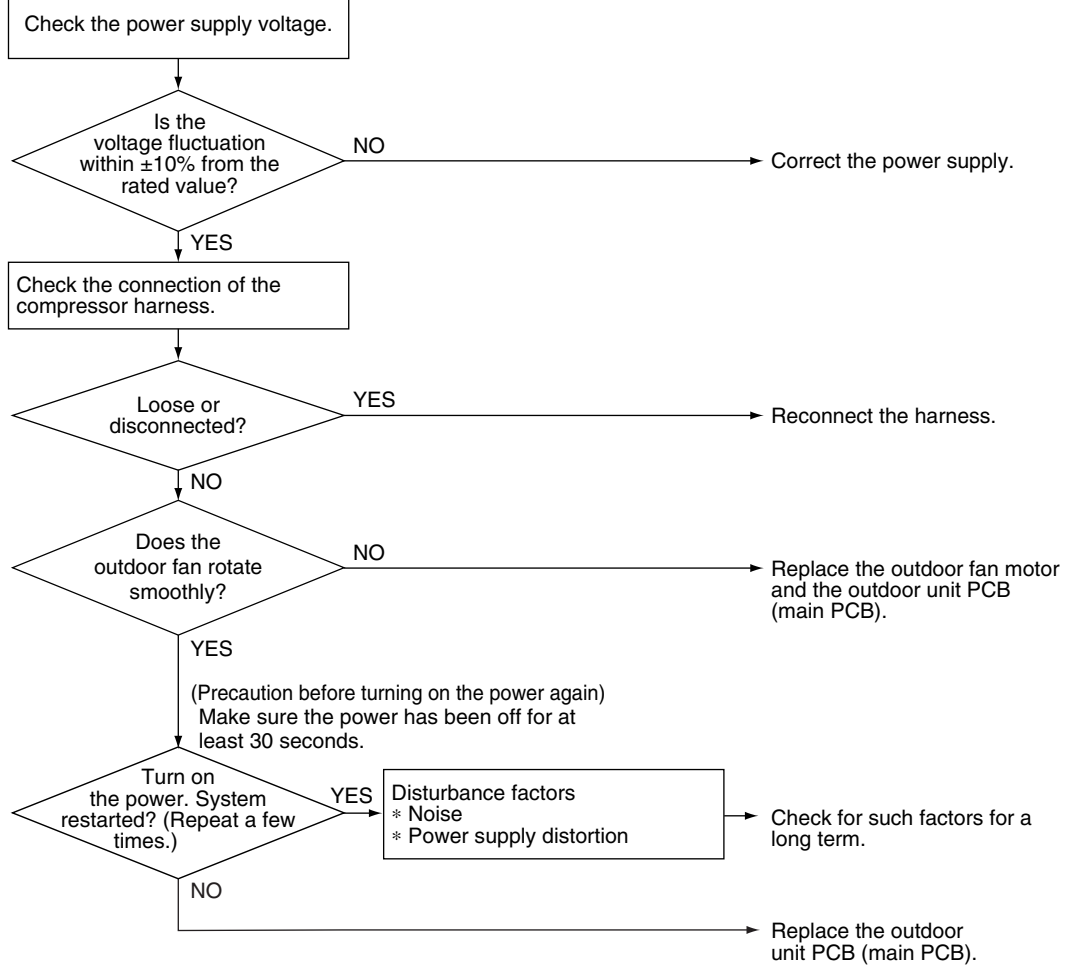
4.7 Low-voltage Detection or Over-voltage Detection

Error Code	U2
Method of Error Detection	<p>Low-voltage detection: An abnormal voltage drop is detected by the DC voltage detection circuit.</p> <p>Over-voltage detection: An abnormal voltage rise is detected by the over-voltage detection circuit.</p>
Error Decision Conditions	<p>Low-voltage detection:</p> <ul style="list-style-type: none"> ■ The voltage detected by the DC voltage detection circuit is below 180 V. ■ The compressor stops if the error occurs, and restarts automatically after 3-minute standby. <p>Over-voltage detection:</p> <ul style="list-style-type: none"> ■ 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 Causes	<ul style="list-style-type: none"> ■ Power supply voltage is not as specified. ■ 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

**Caution**

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



(R22445)

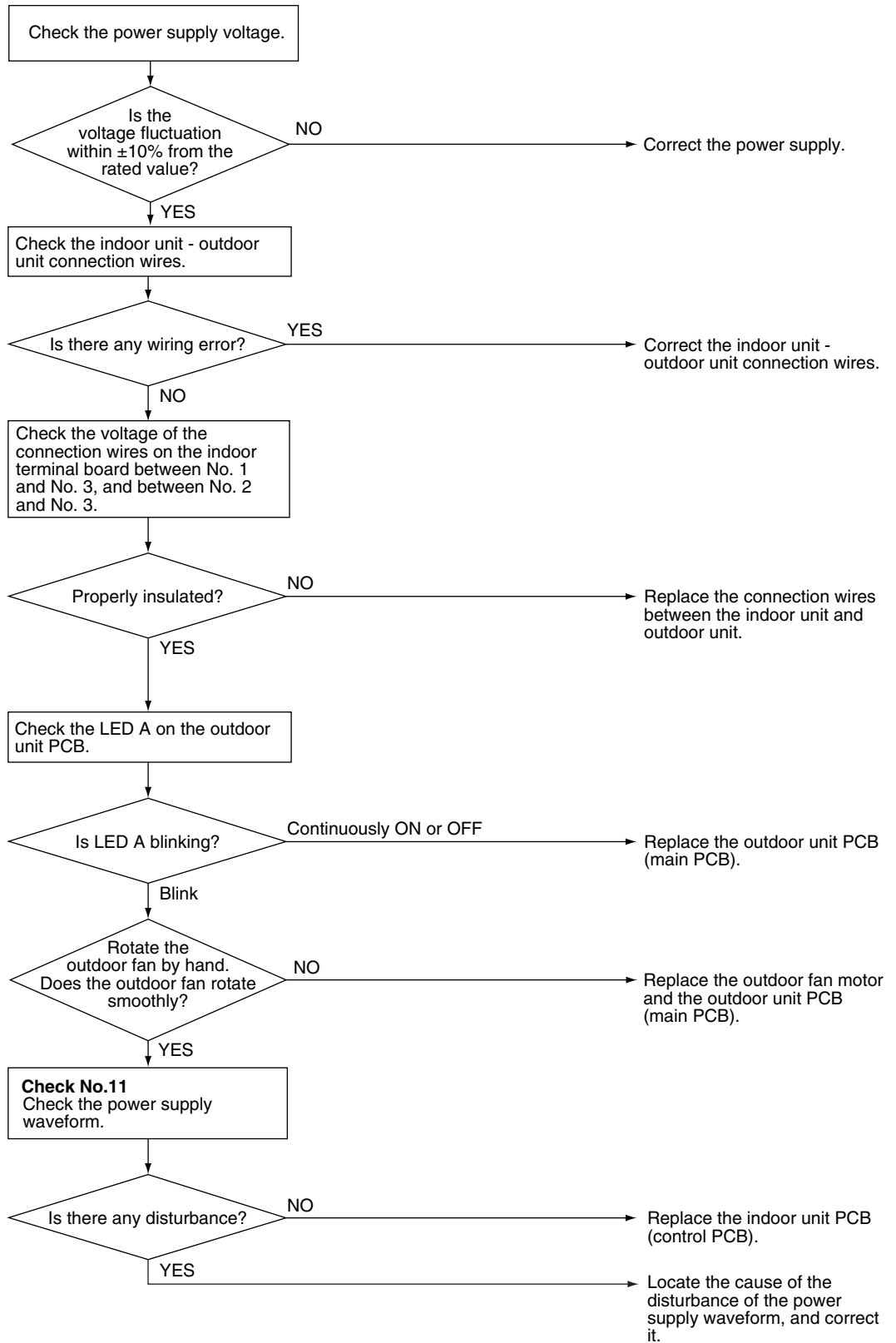
4.8 Signal Transmission Error (Between Indoor Unit and Outdoor Unit)

Error Code	U4
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	<ul style="list-style-type: none">■ Power supply voltage is not as specified.■ Reduction of power supply voltage■ Wiring error■ Breaking of the connection wires between the indoor and outdoor units (wire No. 3)■ Defective outdoor unit PCB■ Short circuit inside the fan motor winding■ Defective indoor unit PCB■ Disturbed power supply waveform

Troubleshooting


Check No.11
Refer to P.103
**Caution**

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



(R22596)

4.9 Unspecified Voltage (Between Indoor Unit and Outdoor Unit)

Error Code



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

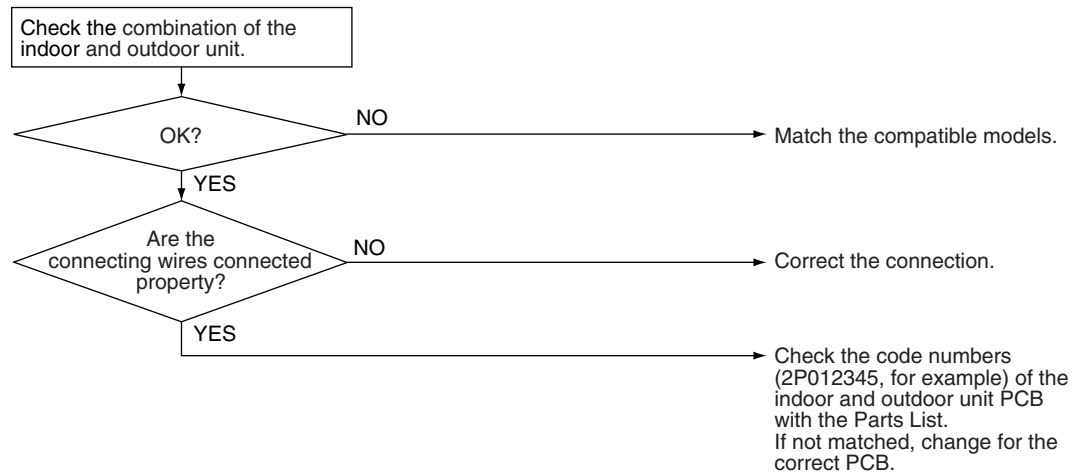
- Wrong models interconnected
- Wrong wiring of connecting wires
- Wrong indoor unit PCB or outdoor unit PCB mounted
- Defective indoor unit PCB
- Defective outdoor unit PCB

Troubleshooting



Caution

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



(R20435)

4.10 Outdoor Unit PCB Abnormality

Error Code **E1**

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

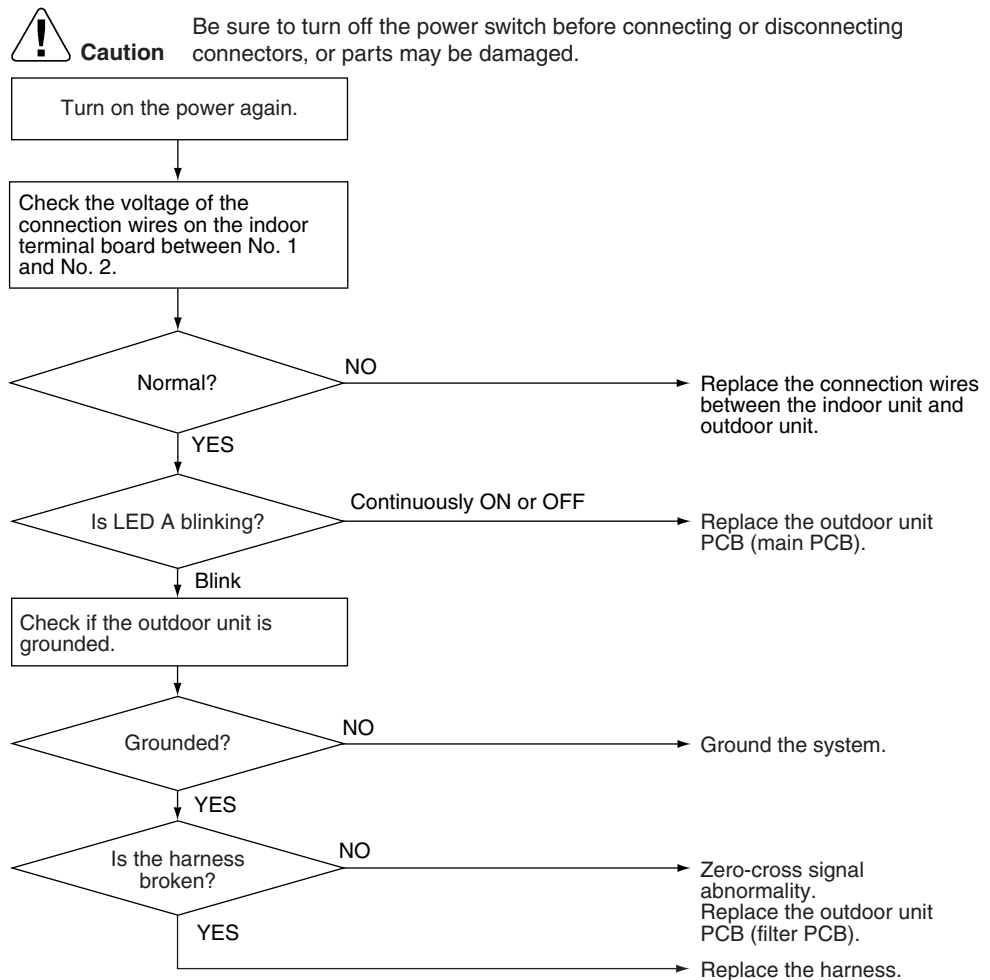
- The microprocessor program runs out of control.
- The zero-cross signal is not detected.

Supposed Causes

- Defective outdoor unit PCB
- Broken harness between PCBs
- Noise
- Momentary drop of voltage
- Momentary power failure

Troubleshooting

RK(X)S25/35E2V1B, RK(X)S25/35G2V1B, RK(X)S25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B



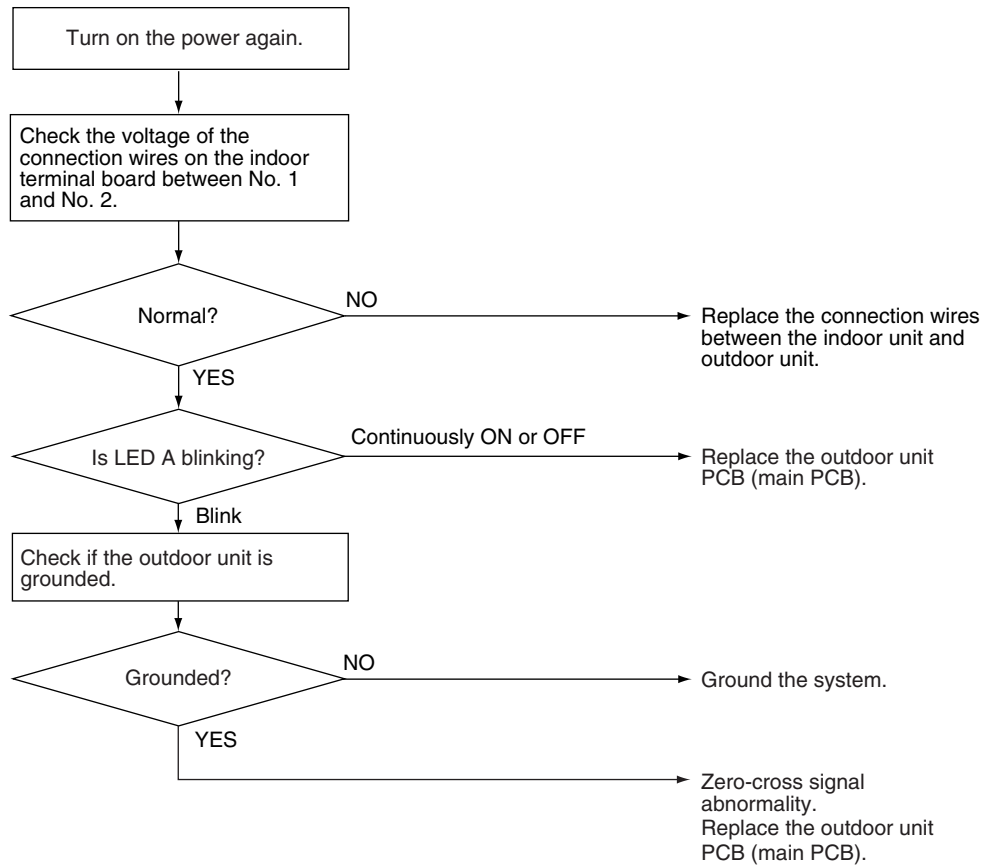
(R22974)

Troubleshooting **RXS25/35L3V1B**



Caution

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



(R22975)

4.11 OL Activation (Compressor Overload)

Error Code	E5
Method of Error Detection	A compressor overload is detected through compressor OL.
Error Decision Conditions	<ul style="list-style-type: none">■ If the error repeats, the system is shut down.■ Reset condition: Continuous run for about 60 minutes without any other error
Supposed Causes	<ul style="list-style-type: none">■ Disconnection of discharge pipe thermistor■ 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

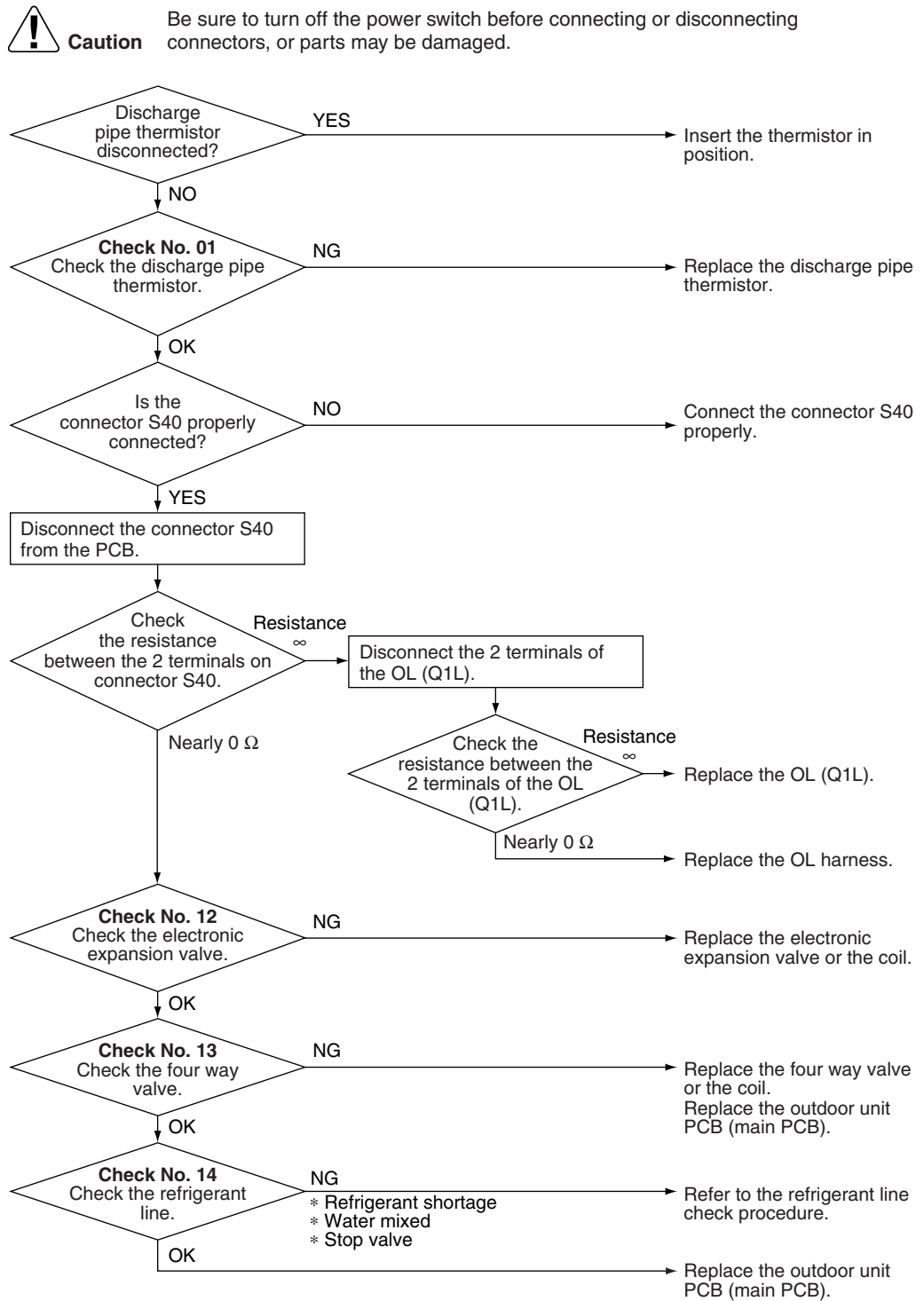
Troubleshooting

 **Check No.01**
Refer to P.102


 **Check No.12**
Refer to P.104

 **Check No.13**
Refer to P.105

 **Check No.14**
Refer to P.105



(R22976)

 **Note:** OL (Q1L) activating temperature: 120°C
OL (Q1L) recovery temperature: 95°C

4.12 Compressor Lock

Error Code	EE
Method of Error Detection	A compressor lock is detected by checking the compressor running condition through the position detection circuit.
Error Decision Conditions	<ul style="list-style-type: none"> ■ A compressor lock is detected by the current waveform generated when applying high-frequency voltage to the motor. ■ If the error repeats, the system is shut down. ■ Reset condition: Continuous run for about 11 minutes without any other error
Supposed Causes	<ul style="list-style-type: none"> ■ Closed stop valve ■ Compressor locked ■ Disconnection of compressor harness

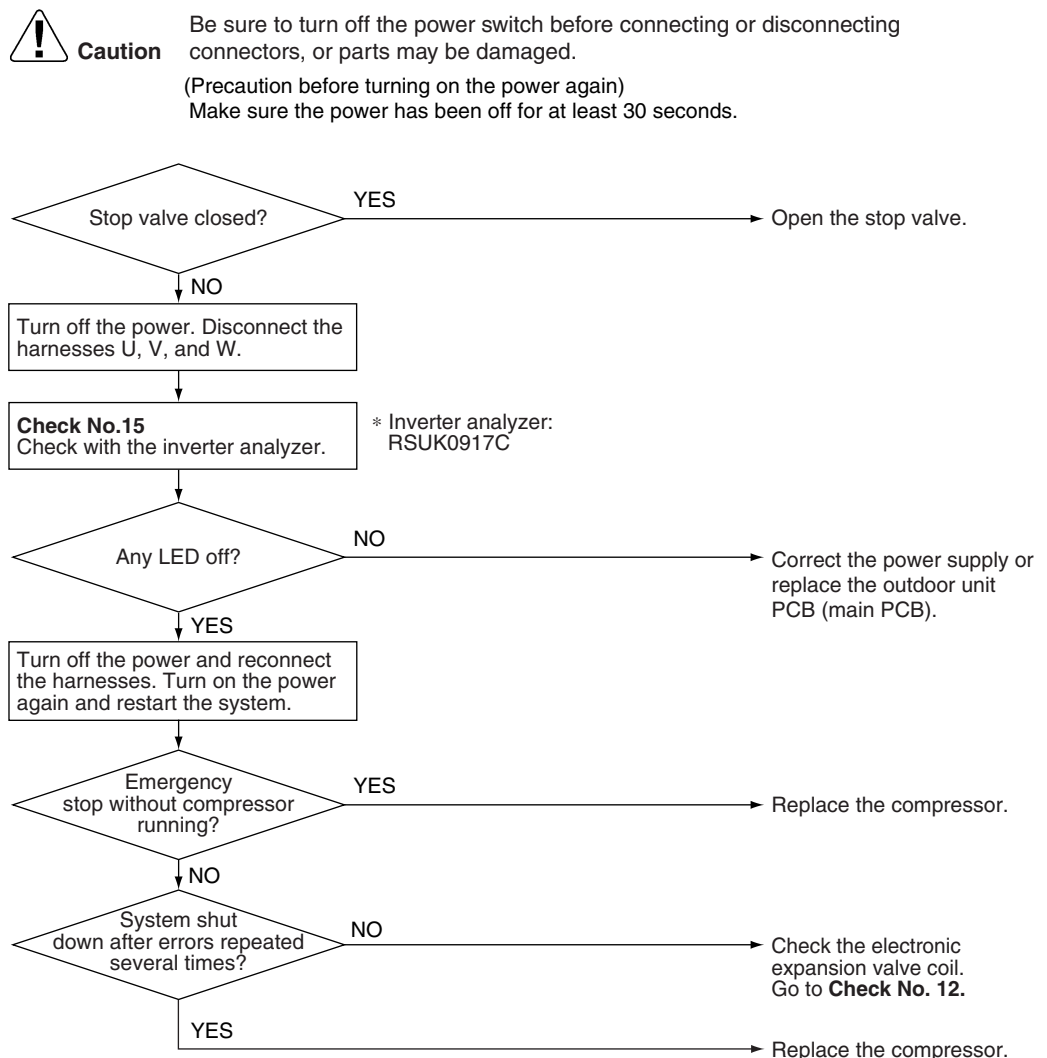
Troubleshooting



Check No.12
Refer to P.104



Check No.15
Refer to P.106

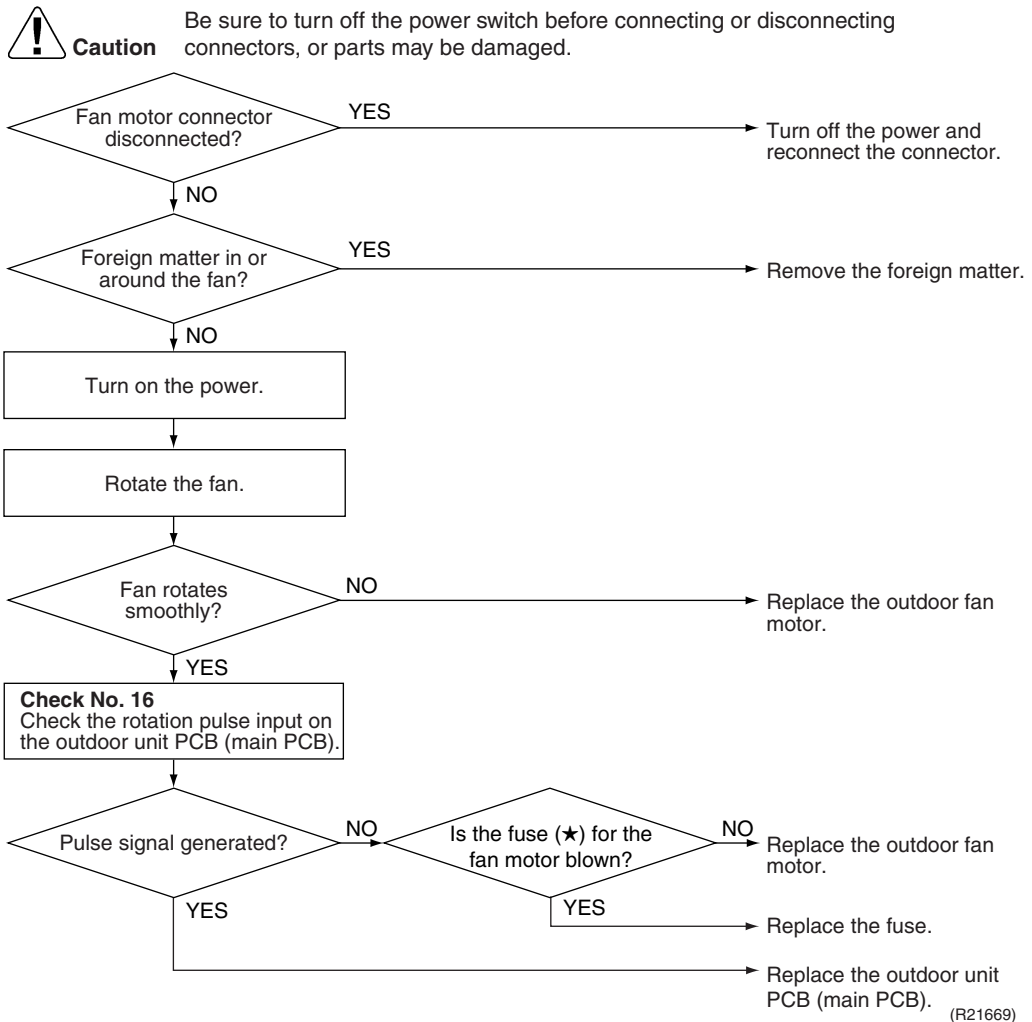


4.13 DC Fan Lock

Error Code	E7
Method of Error Detection	An error is determined with the high-voltage fan motor rotation speed detected by the Hall IC.
Error Decision Conditions	<ul style="list-style-type: none"> ■ The fan does not start in 15 ~ 60 seconds (depending on the model) even when the fan motor is running. ■ If the error repeats, the system is shut down. ■ Reset condition: Continuous run for about 11 minutes without any other error
Supposed Causes	<ul style="list-style-type: none"> ■ Disconnection of the fan motor ■ Foreign matter stuck in the fan ■ Defective fan motor ■ Defective outdoor unit PCB

Troubleshooting


Check No.16
Refer to P.108



★ FU2

4.14 Input Overcurrent Detection

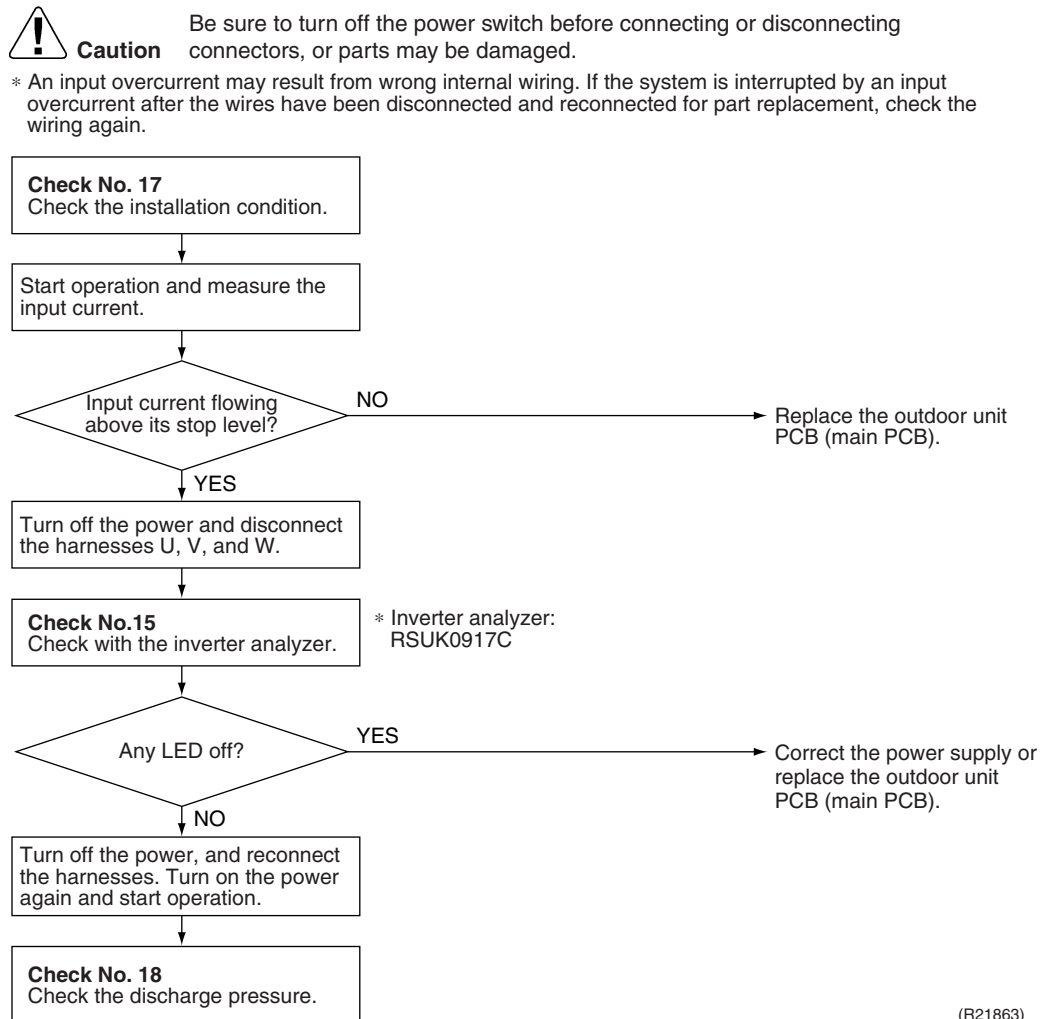
Error Code	E8
Method of Error Detection	An input overcurrent is detected by checking the input current value with the compressor running.
Error Decision Conditions	The current exceeds about 9.25 A for 2.5 seconds with the compressor running. (The upper limit of the current decreases when the outdoor temperature exceeds a certain level.)
Supposed Causes	<ul style="list-style-type: none"> ■ 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.106


Check No.17
 Refer to P.109


Check No.18
 Refer to P.109



(R21863)

4.15 Four Way Valve Abnormality

Error Code	E8
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	<p>A following condition continues over 10 minutes after operating for 5 minutes.</p> <p>Cooling / Dry A – B < -5°C</p> <p>Heating B – A < -5°C</p> <p>A: Room thermistor temperature B: Indoor heat exchanger temperature</p> <ul style="list-style-type: none">■ If the error repeats, the system is shut down.■ Reset condition: Continuous run for about 60 minutes without any other error
Supposed Causes	<ul style="list-style-type: none">■ 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

Troubleshooting



Check No.01
Refer to P.102



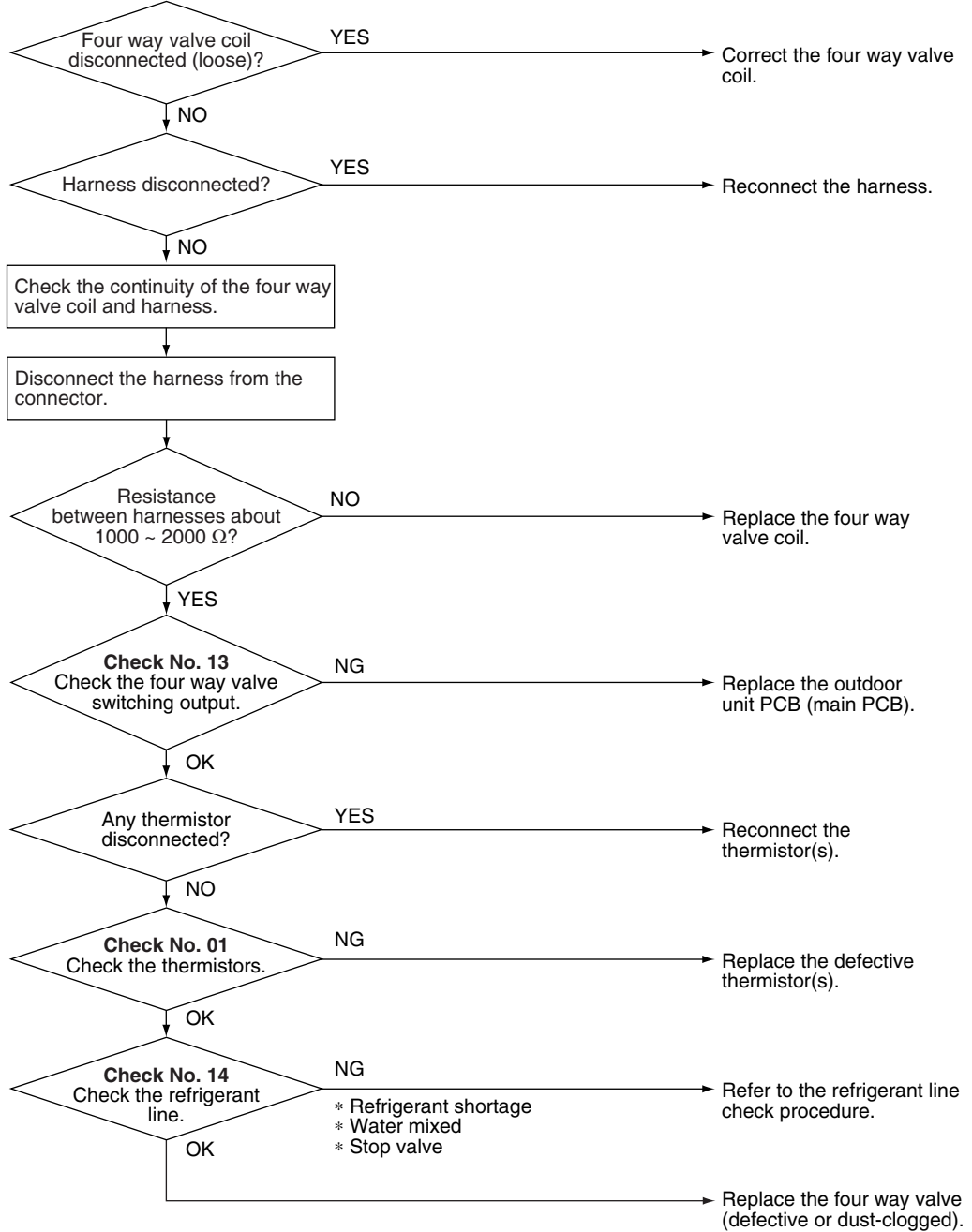
Check No.13
Refer to P.105



Check No.14
Refer to P.105



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






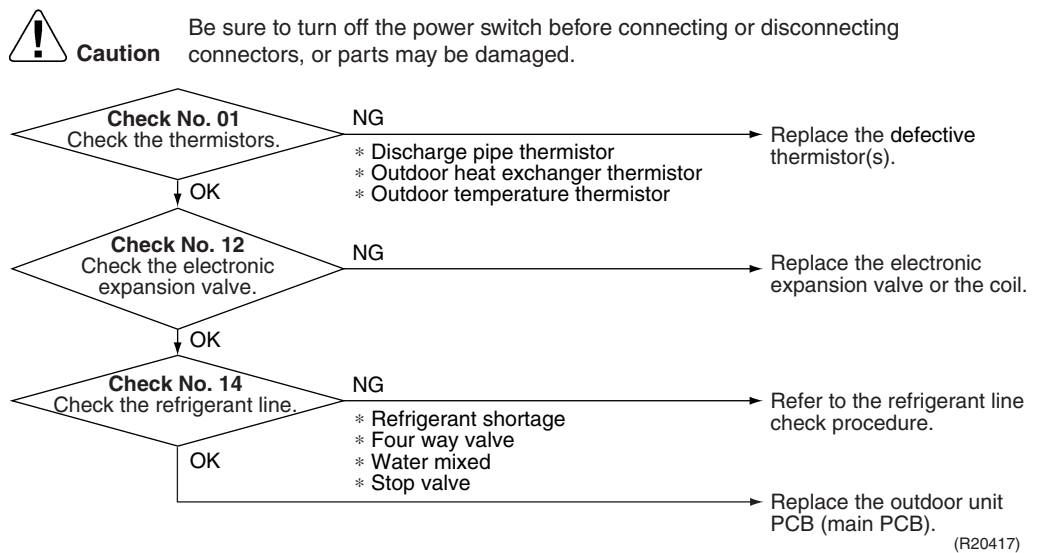
(R20405)

4.16 Discharge Pipe Temperature Control

Error Code	E3													
Method of Error Detection	An error is determined with the temperature detected by the discharge pipe thermistor.													
Error Decision Conditions	<ul style="list-style-type: none"> ■ If the temperature detected by the discharge pipe thermistor rises above A°C, the compressor stops. ■ The error is cleared when the discharge pipe temperature has dropped below B°C. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>A (°C)</th> <th>B (°C)</th> </tr> </thead> <tbody> <tr> <td>(1) above 45 Hz (rising), above 40 Hz (dropping)</td> <td>110</td> <td>97</td> </tr> <tr> <td>(2) 30 ~ 45 Hz (rising), 25 ~ 40 Hz (dropping)</td> <td>105</td> <td>92</td> </tr> <tr> <td>(3) below 30 Hz (rising), below 25 Hz (dropping)</td> <td>99</td> <td>86</td> </tr> </tbody> </table> <ul style="list-style-type: none"> ■ If the error repeats, the system is shut down. ■ Reset condition: Continuous run for about 60 minutes without any other error 			A (°C)	B (°C)	(1) above 45 Hz (rising), above 40 Hz (dropping)	110	97	(2) 30 ~ 45 Hz (rising), 25 ~ 40 Hz (dropping)	105	92	(3) below 30 Hz (rising), below 25 Hz (dropping)	99	86
	A (°C)	B (°C)												
(1) above 45 Hz (rising), above 40 Hz (dropping)	110	97												
(2) 30 ~ 45 Hz (rising), 25 ~ 40 Hz (dropping)	105	92												
(3) below 30 Hz (rising), below 25 Hz (dropping)	99	86												
Supposed Causes	<ul style="list-style-type: none"> ■ Defective discharge pipe thermistor (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






-  **Check No.01**
Refer to P.102
-  **Check No.12**
Refer to P.104
-  **Check No.14**
Refer to P.105

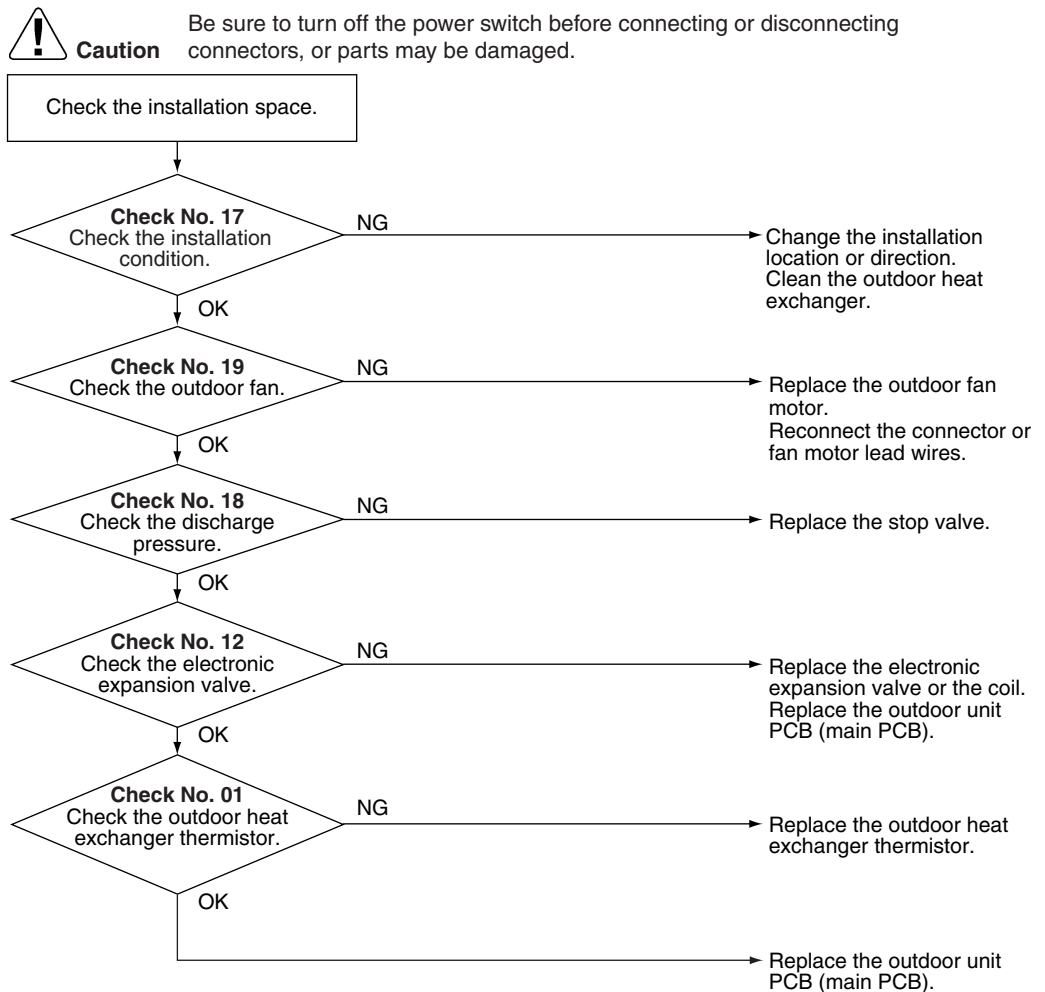


4.17 High Pressure Control in Cooling

Error Code	F6
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	<ul style="list-style-type: none"> ■ The temperature sensed by the outdoor heat exchanger thermistor rises above about 65°C. ■ The error is cleared when the temperature drops below about 50 ~ 55°C.
Supposed Causes	<ul style="list-style-type: none"> ■ 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.102
-  **Check No.12**
Refer to P.104
-  **Check No.17**
Refer to P.109
-  **Check No.18**
Refer to P.109
-  **Check No.19**
Refer to P.110

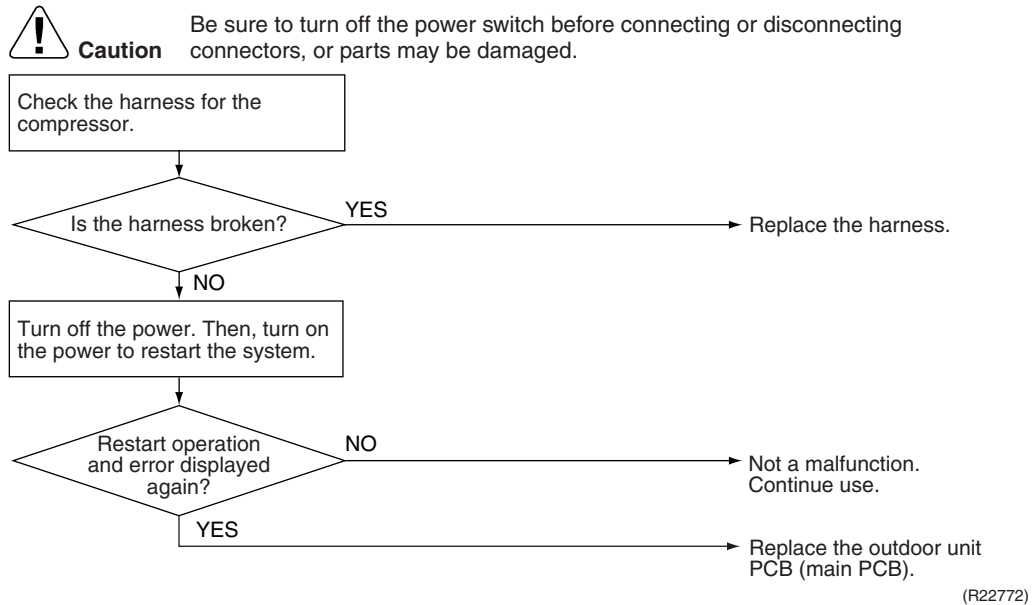


(R20418)

4.18 Compressor System Sensor Abnormality

Error Code	H0
Method of Error Detection	The system checks the DC current before the compressor starts.
Error Decision Conditions	<ul style="list-style-type: none"> ■ The voltage converted from the DC current before compressor start-up is out of the range 0.5 ~ 4.5 V. ■ The DC voltage before compressor start-up is below 50 V.
Supposed Causes	<ul style="list-style-type: none"> ■ Broken or disconnected harness ■ Defective outdoor unit PCB

Troubleshooting



4.19 Position Sensor Abnormality

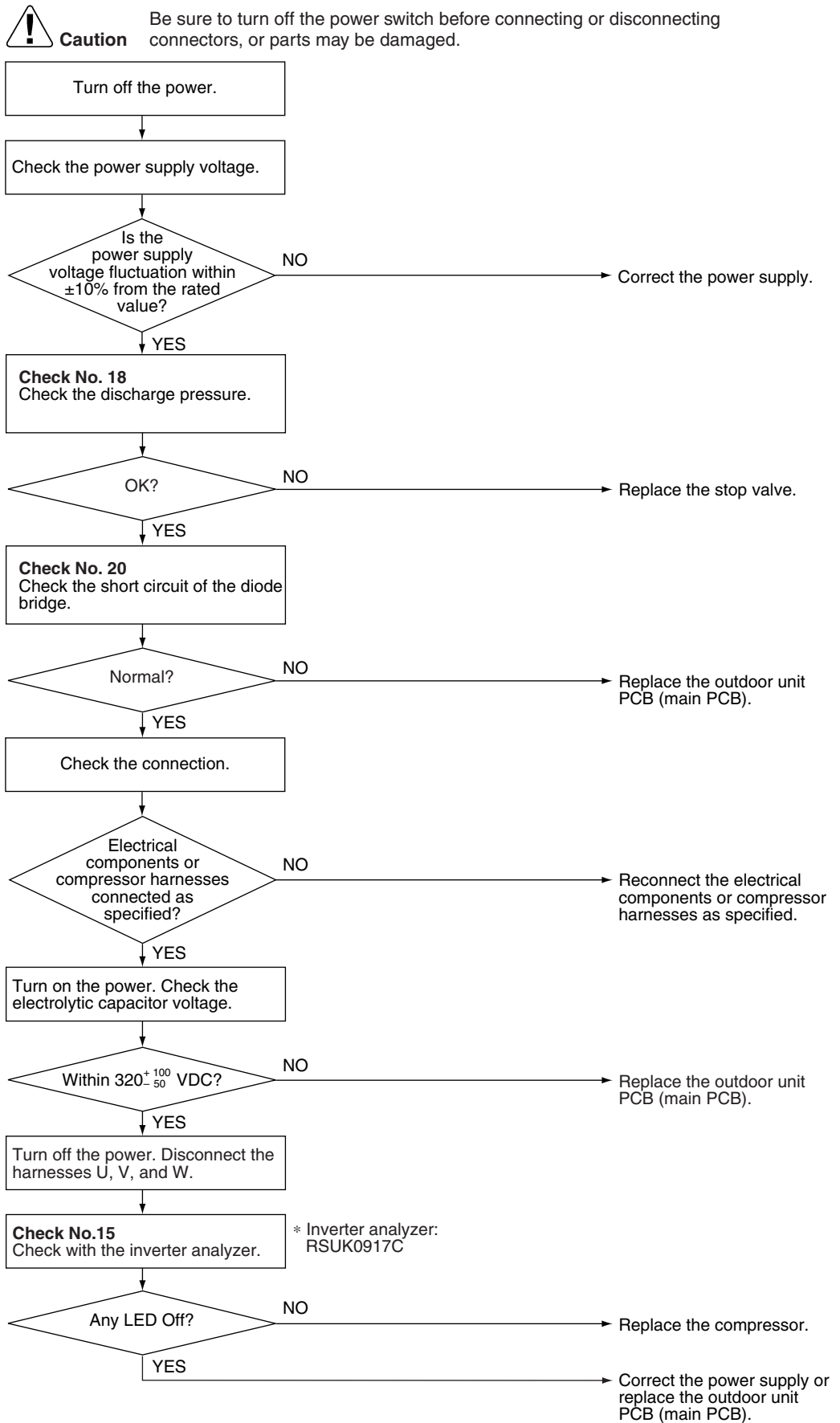
Error Code	H6
Method of Error Detection	A compressor start-up failure is detected by checking the compressor running condition through the position detection circuit.
Error Decision Conditions	<ul style="list-style-type: none">■ If the error repeats, the system is shut down.■ Reset condition: Continuous run for about 11 minutes without any other error
Supposed Causes	<ul style="list-style-type: none">■ 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.

Troubleshooting


Check No.15
 Refer to P.106


Check No.18
 Refer to P.109


Check No.20
 Refer to P.110



(R22764)

4.20 DC Voltage / Current Sensor Abnormality


Error Code	H2
Method of Error Detection	DC voltage or DC current sensor abnormality is identified based on the compressor running frequency and the input current.
Error Decision Conditions	<ul style="list-style-type: none">■ If the error repeats, the system is shut down.■ Reset condition: Continuous run for about 60 minutes without any other error
Supposed Causes	<ul style="list-style-type: none">■ Defective outdoor unit PCB
Troubleshooting	

**Caution**

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

Replace the outdoor unit PCB (main PCB).

4.21 Thermistor or Related Abnormality (Outdoor Unit)

Error Code	<i>H9, U3, UE, P4</i>
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	<ul style="list-style-type: none"> ■ The voltage between the both ends of the thermistor is above 4.96 V or below 0.04 V with the power on. ■ <i>U3</i> error is judged if the discharge pipe temperature is lower than the heat exchanger temperature.
Supposed Causes	<ul style="list-style-type: none"> ■ Disconnection of the connector for the thermistor ■ Thermistor corresponding to the error code is defective. ■ Defective heat exchanger thermistor in the case of <i>U3</i> error (outdoor heat exchanger thermistor in cooling operation, or indoor heat exchanger thermistor in heating operation) ■ Defective outdoor unit PCB
Troubleshooting	<p>In case of <i>P4</i> for RK(X)S25/35G2V1B, RK(X)S25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B, RXS25/35L3V1B</p> <p> Caution Be sure to turn off the power switch before connecting or disconnecting connectors, or parts may be damaged.</p> <p>Replace the outdoor unit PCB (main PCB).</p> <p><i>P4</i> : Radiation fin thermistor</p>

Troubleshooting



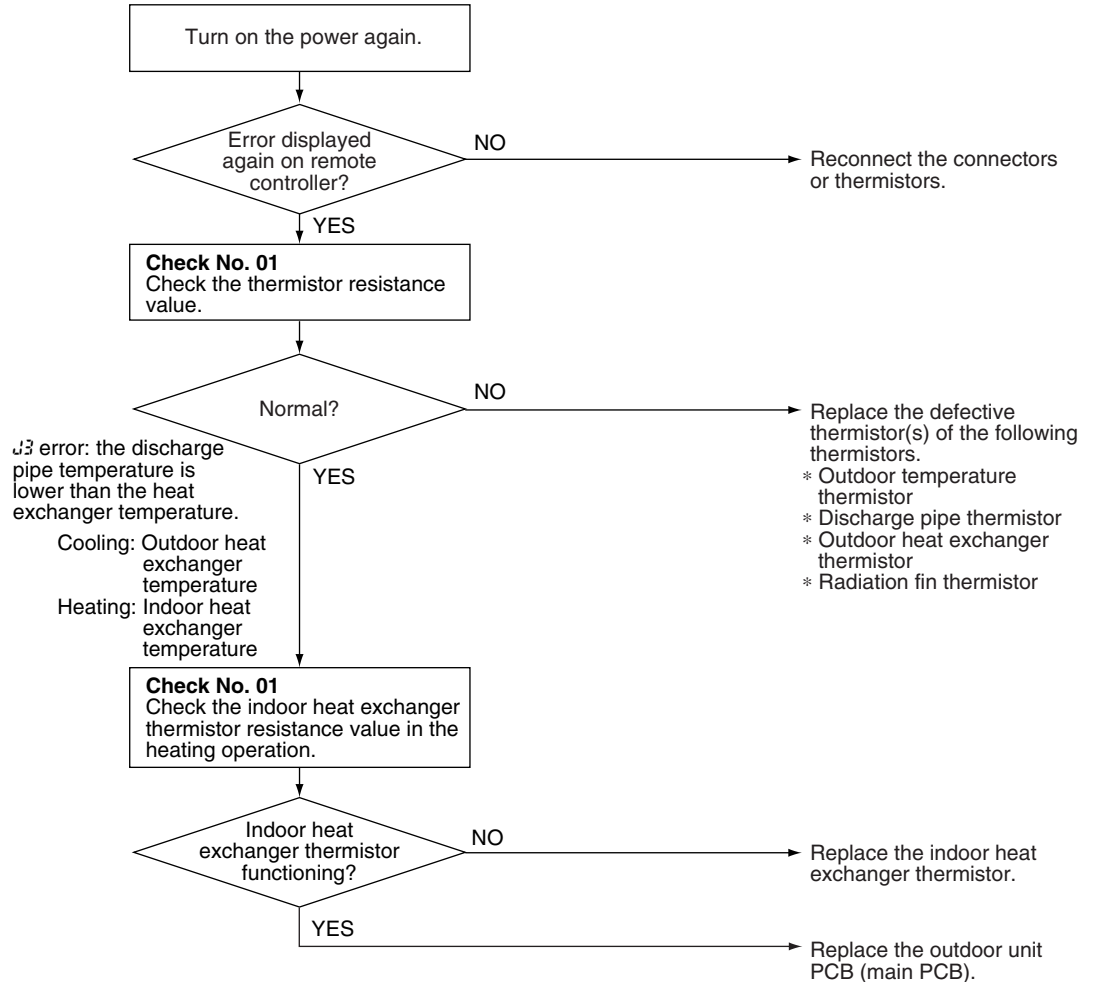
Check No.01
Refer to P.102

- In case of RK(X)S25/35E2V1B
- In case of P3 , P3 , P6 for RK(X)S25/35G2V1B, RK(X)S25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B, RXS25/35L3V1B



Caution

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



(R22977)

- P3 : Outdoor temperature thermistor
- P3 : Discharge pipe thermistor
- P6 : Outdoor heat exchanger thermistor
- P4 : Radiation fin thermistor

4.22 Electrical Box Temperature Rise

Error Code	L3		
Method of Error Detection	An electrical box temperature rise is detected by checking the radiation fin thermistor with the compressor off.		
Error Decision Conditions	<ul style="list-style-type: none"> ■ With the compressor off, the radiation fin temperature is above A°C. ■ The error is cleared when the radiation fin temperature drops below B°C. ■ To cool the electrical components, the outdoor fan starts when the radiation fin temperature rises above C°C and stops when the radiation fin temperature drops below B°C. 		
		A (°C)	B (°C)
	RK(X)S25/35E2V1B, RK(X)S25/35G2V1B	80	70
	RK(X)S25/35G2V1B9, RXS25/35J2V1B RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B RXS25/35L3V1B	98	75
Supposed Causes	<ul style="list-style-type: none"> ■ Defective outdoor fan motor ■ Short circuit ■ Defective radiation fin thermistor ■ Disconnection of connector ■ Defective outdoor unit PCB 		


Troubleshooting

 **Check No.01**
Refer to P.102


 **Check No.17**
Refer to P.109

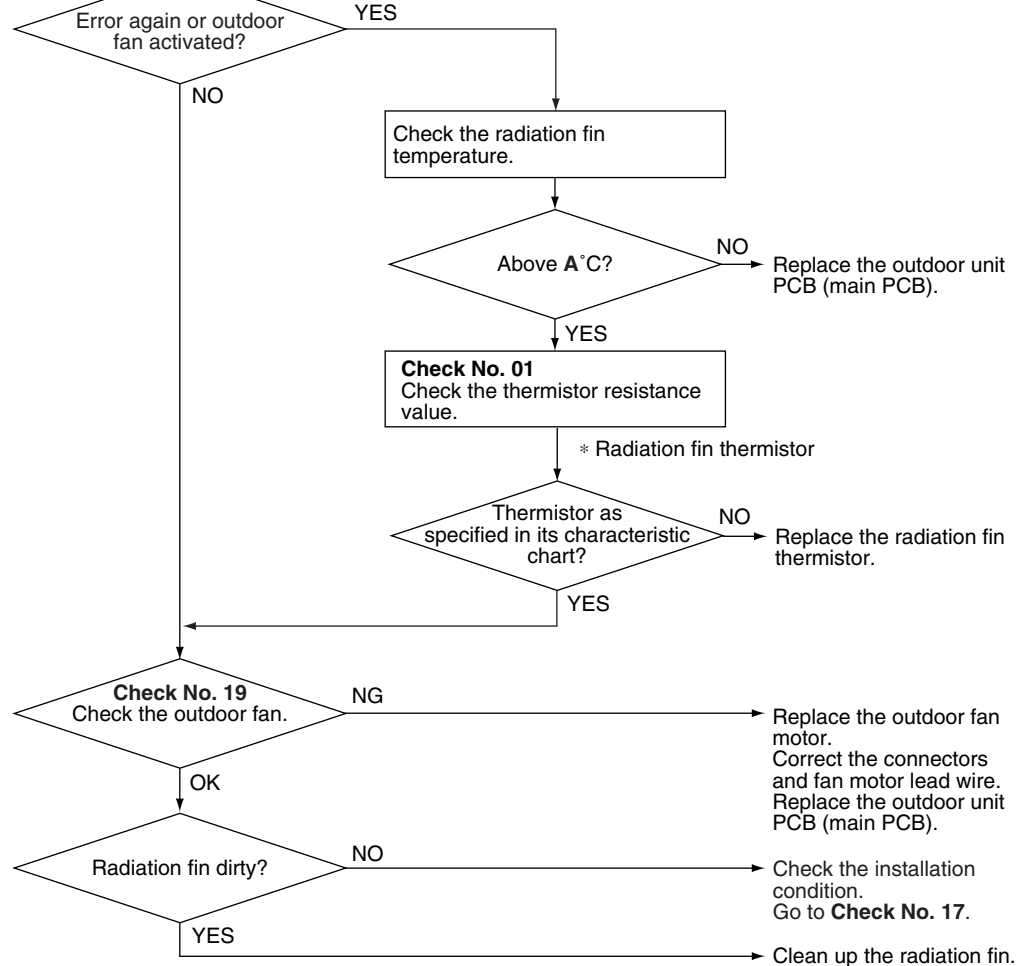
 **Check No.19**
Refer to P.110

RK(X)S25/35E2V1B

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

Turn off the power. Then, turn on the power to restart the system.

 **WARNING**
To cool the electrical components, the outdoor fan starts when the radiation fin temperature rises above **C**°C and stops when the radiation fin temperature drops below **B**°C.



(R22981)

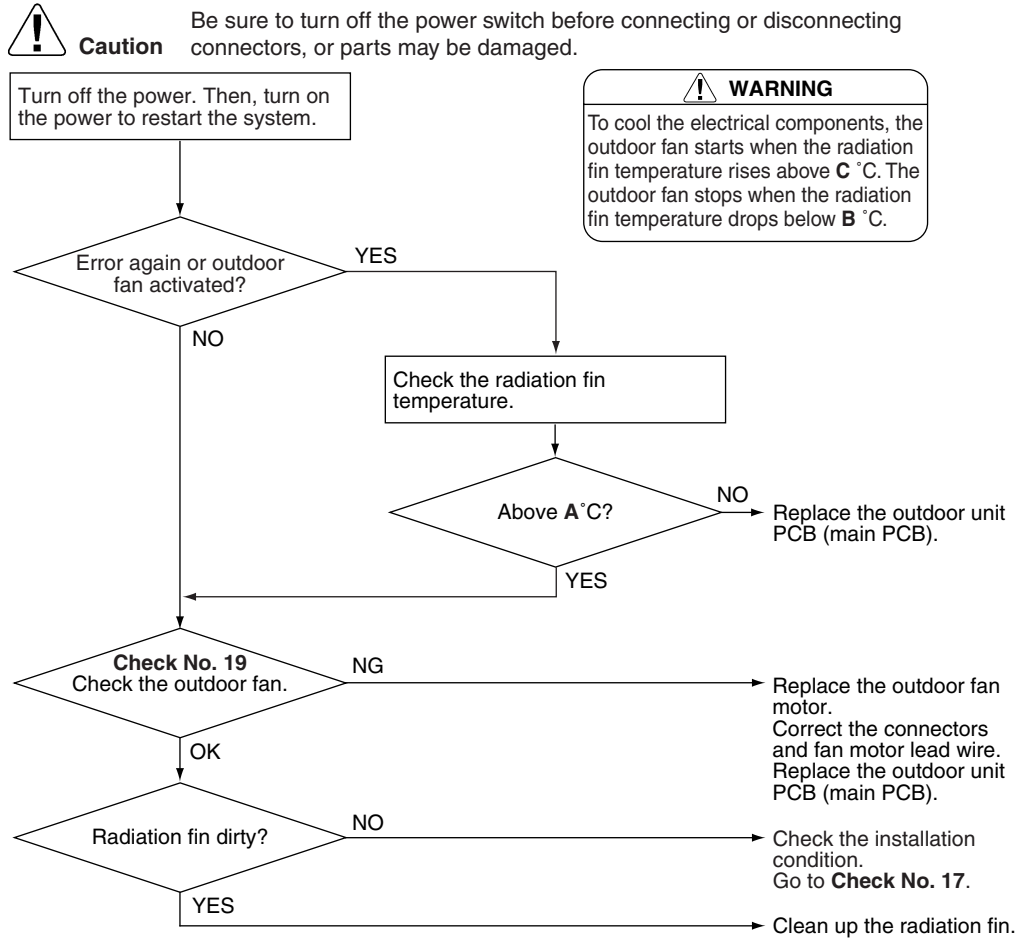
	A (°C)	B (°C)	C (°C)
RK(X)S25/35E2V1B	80	70	80

Troubleshooting

RK(X)S25/35G2V1B, RK(X)S25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B, RXS25/35L3V1B

 **Check No.17**
Refer to P.109

 **Check No.19**
Refer to P.110



(R21436)

	A (°C)	B (°C)	C (°C)
RK(X)S25/35G2V1B	80	70	80
RK(X)S25/35G2V1B9 RXS25/35J2V1B RXS25K3V1B RXS35K2V1B RXS25/35L2V1B RXS25/35L3V1B	98	75	83

4.23 Radiation Fin Temperature Rise

Error Code L4

Method of Error Detection A radiation fin temperature rise is detected by checking the radiation fin thermistor with the compressor on.

Error Decision Conditions

- If the radiation fin temperature with the compressor on is above **A**°C.
- The error is cleared when the radiation fin temperature drops below **B**°C.
- If the error repeats, the system is shut down.
- Reset condition: Continuous run for about 60 minutes without any other error

	A (°C)	B (°C)
RK(X)S25/35E2V1B, RK(X)S25/35G2V1B	90	85
RK(X)S25/35G2V1B9, RXS25/35J2V1B RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B RXS25/35L3V1B	98	78

Supposed Causes

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


Troubleshooting

RK(X)S25/35E2V1B

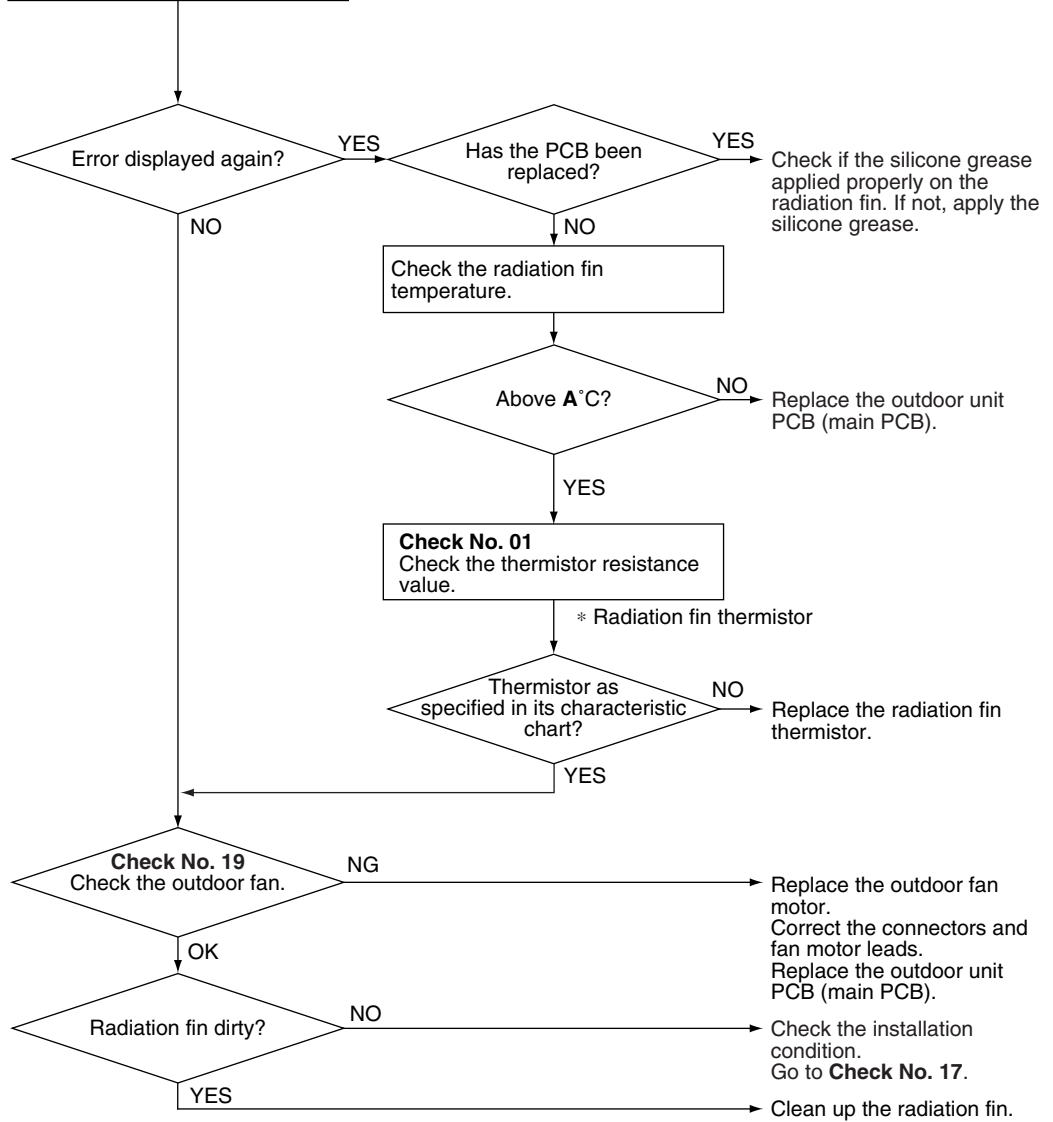
 **Check No.01**
Refer to P.102

 **Check No.17**
Refer to P.109

 **Check No.19**
Refer to P.110

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

Turn off the power. Then, turn on the power to restart the system.



(R23022)

	A (°C)
RK(X)S25/35E2V1B	90


 **Note:** Refer to Silicone Grease on Power Transistor / Diode Bridge on page 122 for details.

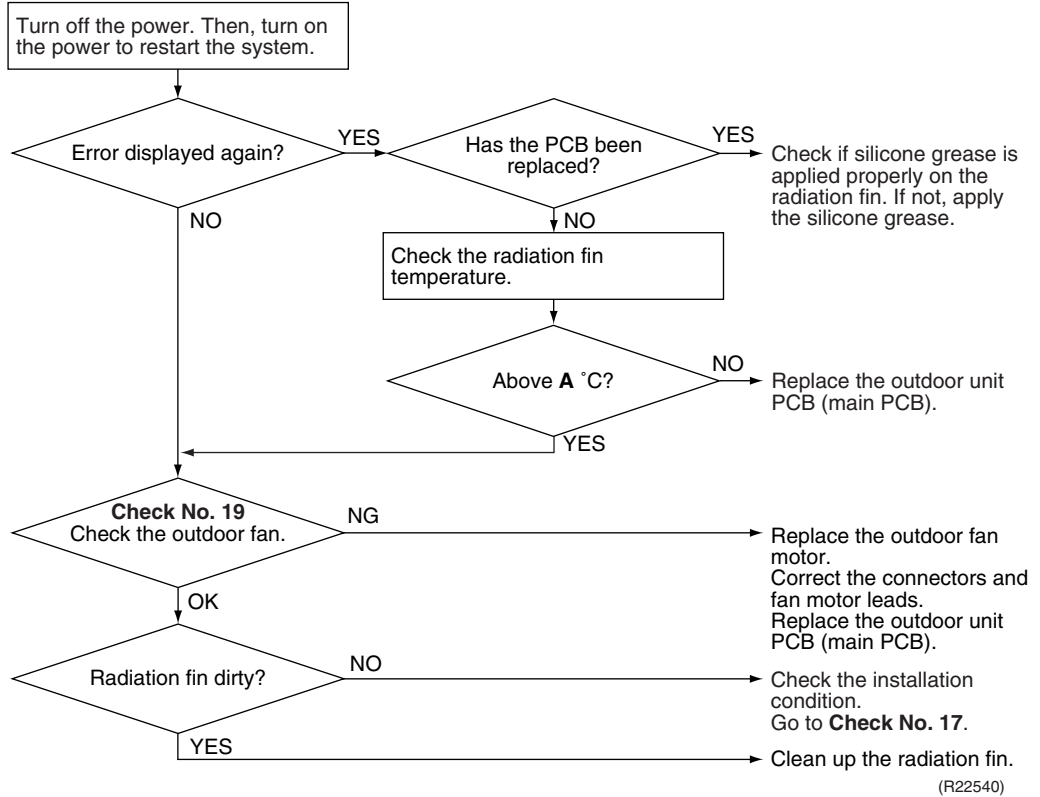
Troubleshooting

RK(X)S25/35G2V1B, RK(X)S25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B, RXS25/35L3V1B

 **Check No.17**
Refer to P.109

 **Check No.19**
Refer to P.110

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



(R22540)

	A (°C)
RK(X)S25/35G2V1B	90
RK(X)S25/35G2V1B9 RXS25/35J2V1B RXS25K3V1B RXS35K2V1B RXS25/35L2V1B RXS25/35L3V1B	98

 **Note:** Refer to Silicone Grease on Power Transistor / Diode Bridge on page 122 for details.

4.24 Output Overcurrent Detection

Error CodeU5

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 11 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


Troubleshooting


Check No.15
 Refer to P.106

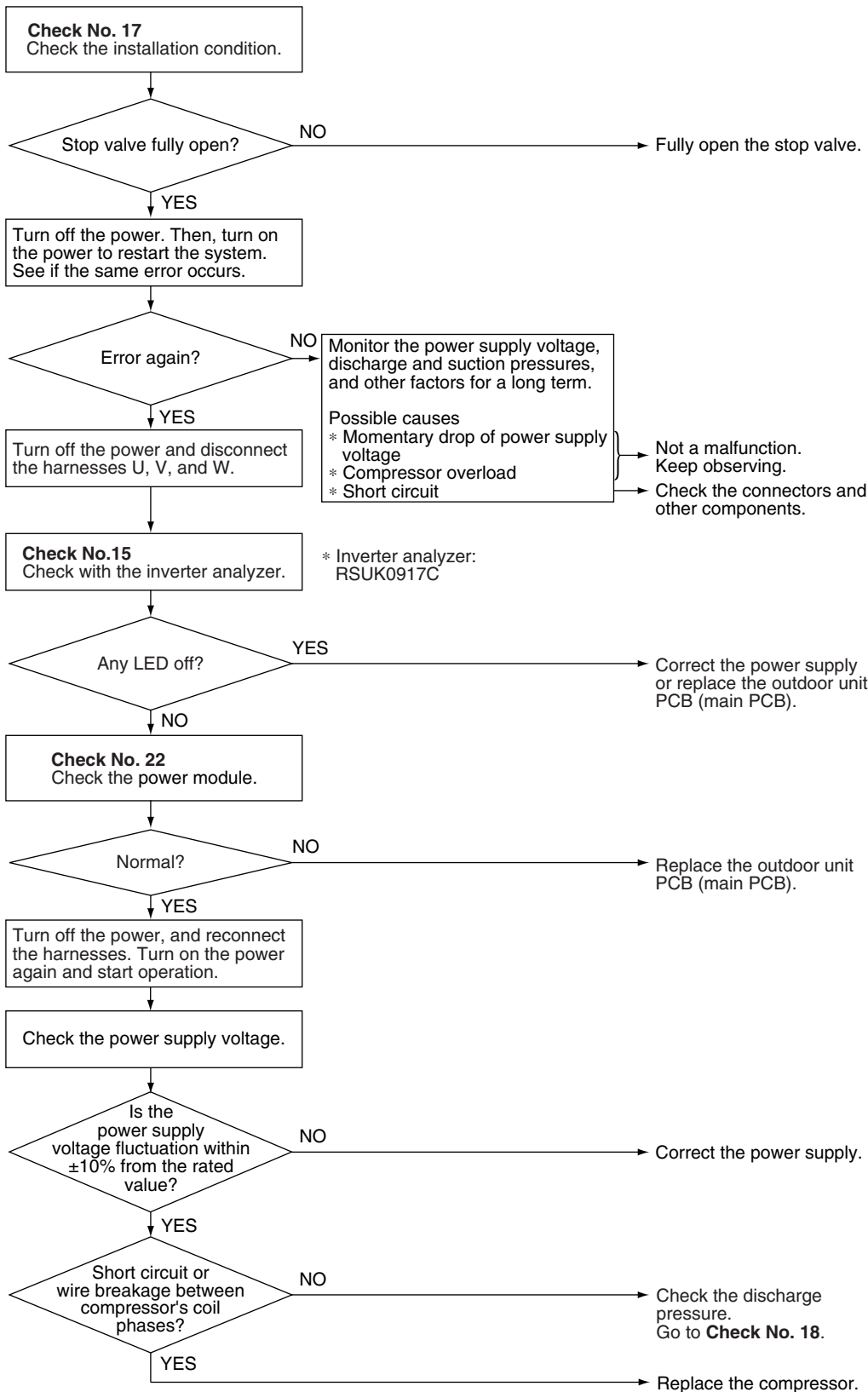

Check No.17
 Refer to P.109


Check No.18
 Refer to P.109


Check No.22
 Refer to P.112

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

* An output overcurrent may result from wrong internal wiring. If the system is interrupted by an output overcurrent after the wires have been disconnected and reconnected for part replacement, check the wiring again.



(R22765)

5. Check

5.1 Thermistor Resistance Check

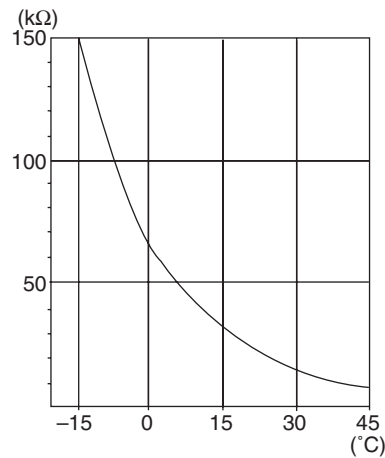
Check No.01

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

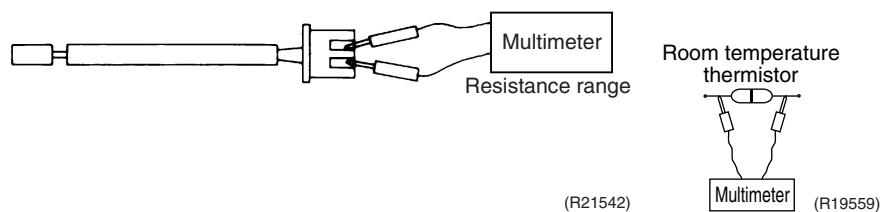
The data is for reference purpose only.

Thermistor temperature (°C)	Resistance (kΩ)
-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

(R25°C = 20 kΩ, B = 3950 K)



(R11905)



(R21542)

(R19559)

- 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 Hall IC Check

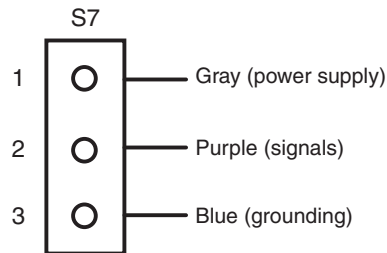
Check No.04

1. Check the connector connection.
2. With the power on, operation off, and the connector connected, check the following.
 - (1) Output voltage of about 5 V between pins 1 and 3.
 - (2) Generation of 3 pulses between pins 2 and 3 when the fan motor is operating.

If NG in step (1) → Defective PCB → Replace the PCB (control PCB).

If NG in step (2) → Defective Hall IC → Replace the fan motor.

If OK in both steps (1) and (2) → Replace the PCB (control PCB).



(R14211)

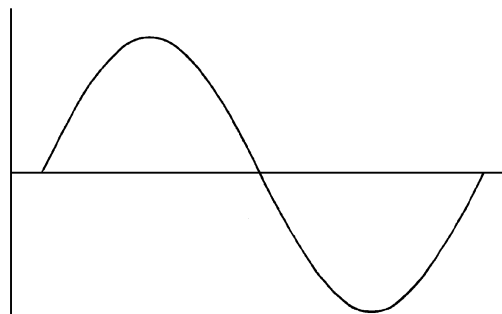
5.3 Power Supply Waveforms Check

Check No.11

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

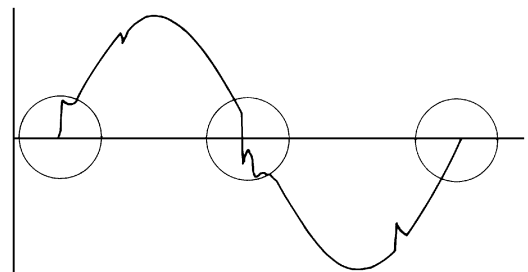
- Check if the power supply waveform is a sine wave. (Fig.1)
- Check if there is waveform disturbance near the zero-cross. (sections circled in Fig.2)

Fig.1



(R1736)

Fig.2



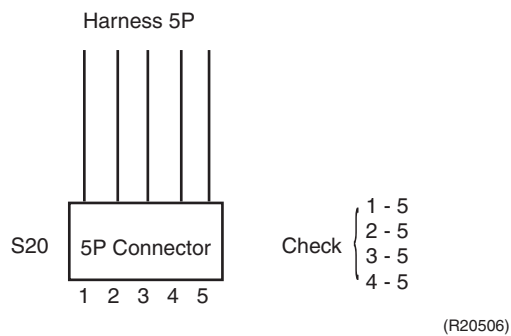
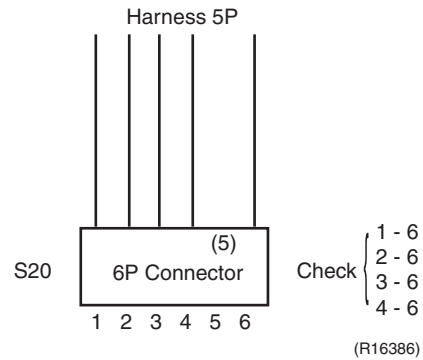
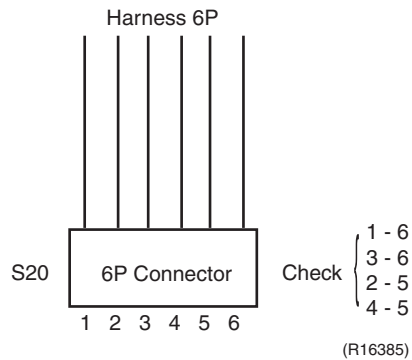
(R1444)

5.4 Electronic Expansion Valve Check

Check No.12

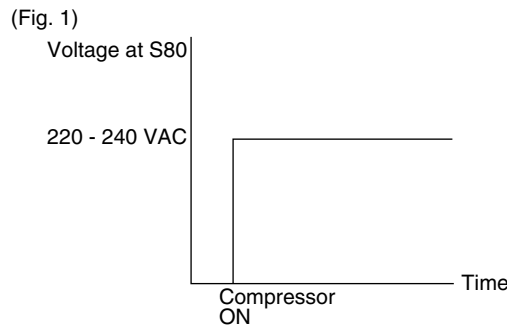
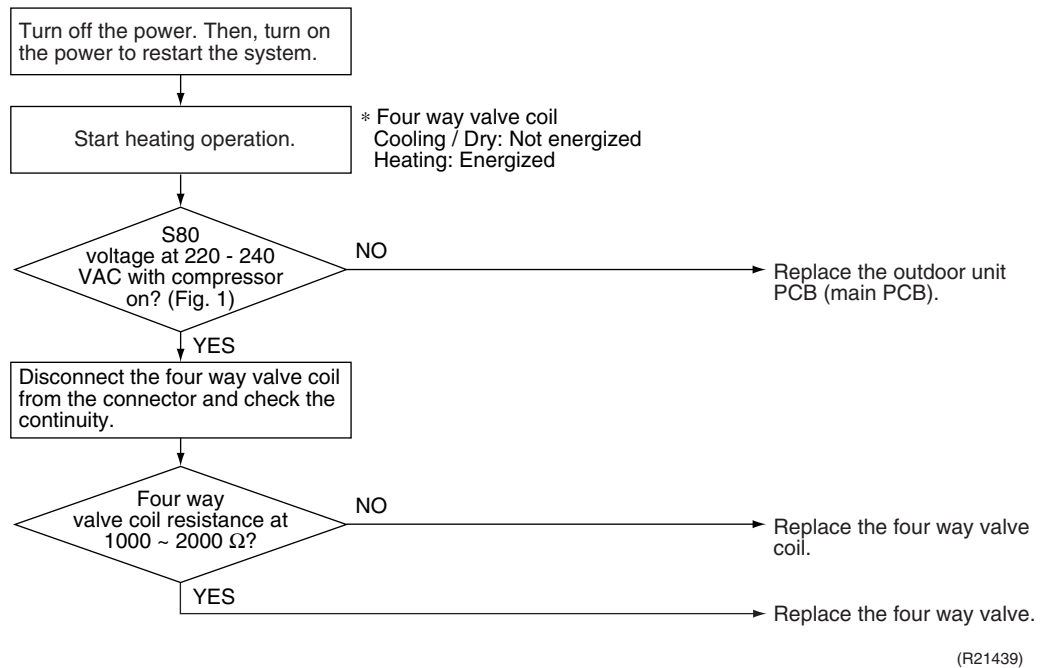
Conduct the following to check the electronic expansion valve (EV).

1. Check if the EV connector is correctly connected to the PCB.
2. 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



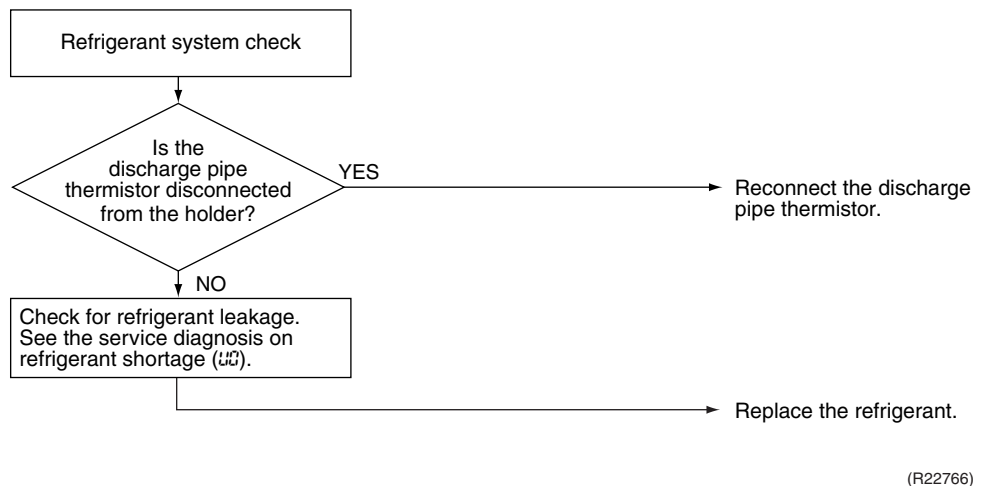
5.5 Four Way Valve Performance Check

Check No.13



5.6 Inverter Unit Refrigerant System Check

Check No.14



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 quasi-compressor instead of compressor and check the output of the inverter)

■ Operation Method

Step 1

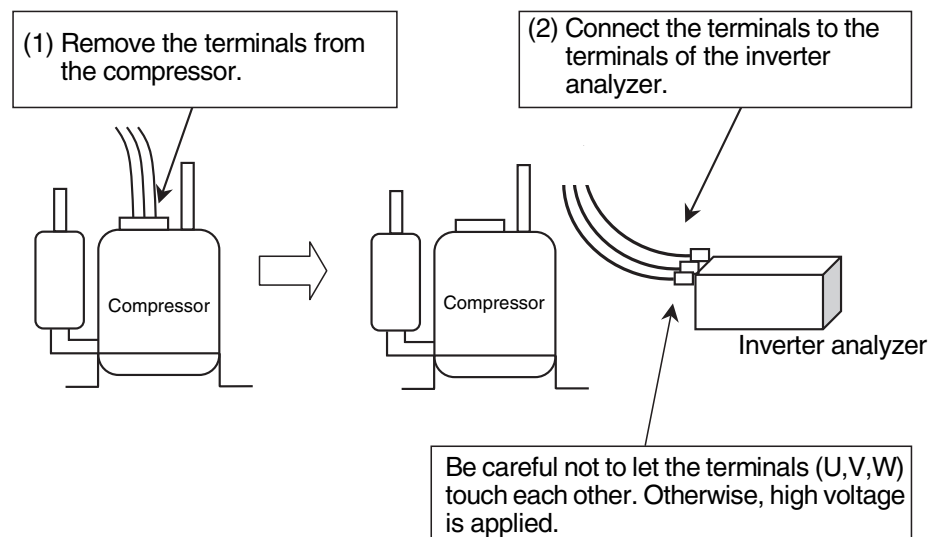
Be sure to turn the power off.

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.



(R22731)

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

RK(X)S25/35E2V1B, RK(X)S25/35G2V1B, RK(X)S25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B

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 116 for the position.)

→ Power transistor test operation starts.

RXS25/35L3V1B

Activate power transistor test operation from indoor unit.

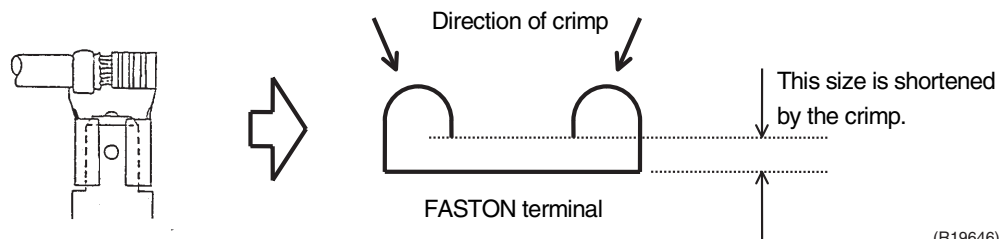
- (1) Turn the power on.
- (2) Select FAN operation with the **MODE** button on the remote controller.
- (3) Press the center of the **TEMP** button and the **MODE** button at the same time.
→ E^{E} is displayed with the left-side number blinking.
- (4) Press the **MODE** button.
→ E^{E} is displayed with the right-side number blinking.
- (5) Press the **MODE** button.
→ 7^{7} is displayed.
- (6) Press the **ON/OFF** button.
→ 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.
→ Replace the compressor.
- (2) If the LEDs are not lit uniformly, check the power module.
→ 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.



(R19646)

5.8 Rotation Pulse Check on the Outdoor Unit PCB

Check No.16

RK(X)S25/35E2V1B, RK(X)S25/35G2V1B, RXS25/35L3V1B

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

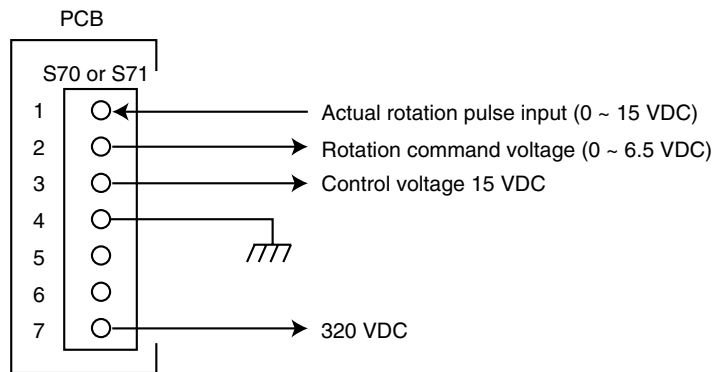
1. Set operation off and power off. Disconnect the connector S70 or S71.
2. Check that the voltage between the pins 4 - 7 is 320 VDC.
3. Check that the control voltage between the pins 3 - 4 is 15 VDC.
4. Check that the rotation command voltage between the pins 2 - 4 is 0 ~ 6.5 VDC.
5. Keep operation off and power off. Connect the connector S70 or S71.
6. Check whether 4 rotation 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 → Defective PCB → Replace the outdoor unit PCB (main PCB).

If NG in step 4 → Defective Hall IC → Replace the outdoor fan motor.

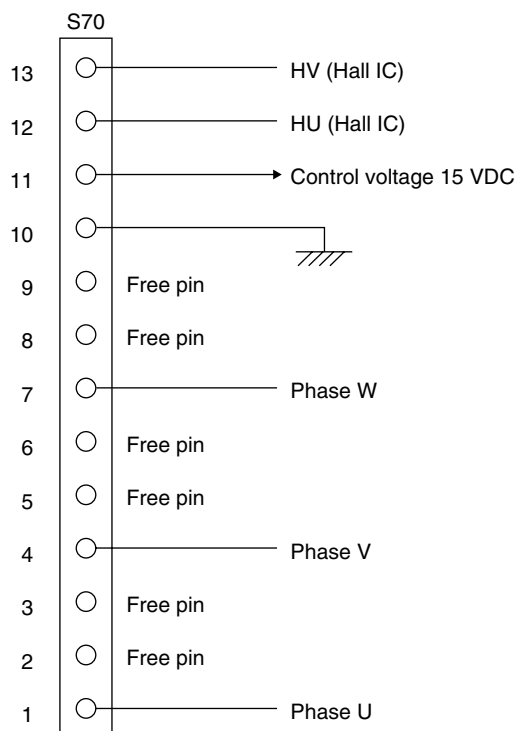
If OK in both steps 2 and 4 → Replace the outdoor unit PCB (main PCB).



(R20507)

RK(X)S25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B

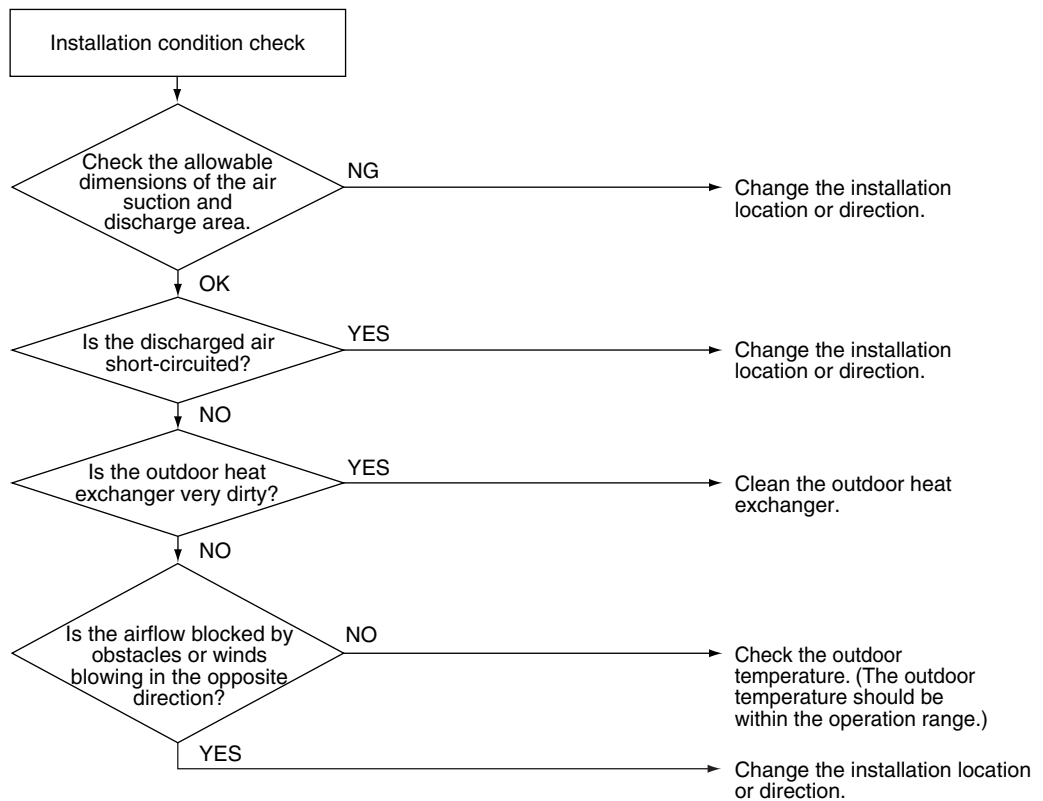
1. Check that the voltage between the pins 10 - 11 is 15 VDC.
2. Check if the Hall IC generates the rotation pulse (0 ~ 15 VDC) 4 times between the pins 10 - 12, 10 - 13, when the fan motor is manually rotated once.



(R19663)

5.9 Installation Condition Check

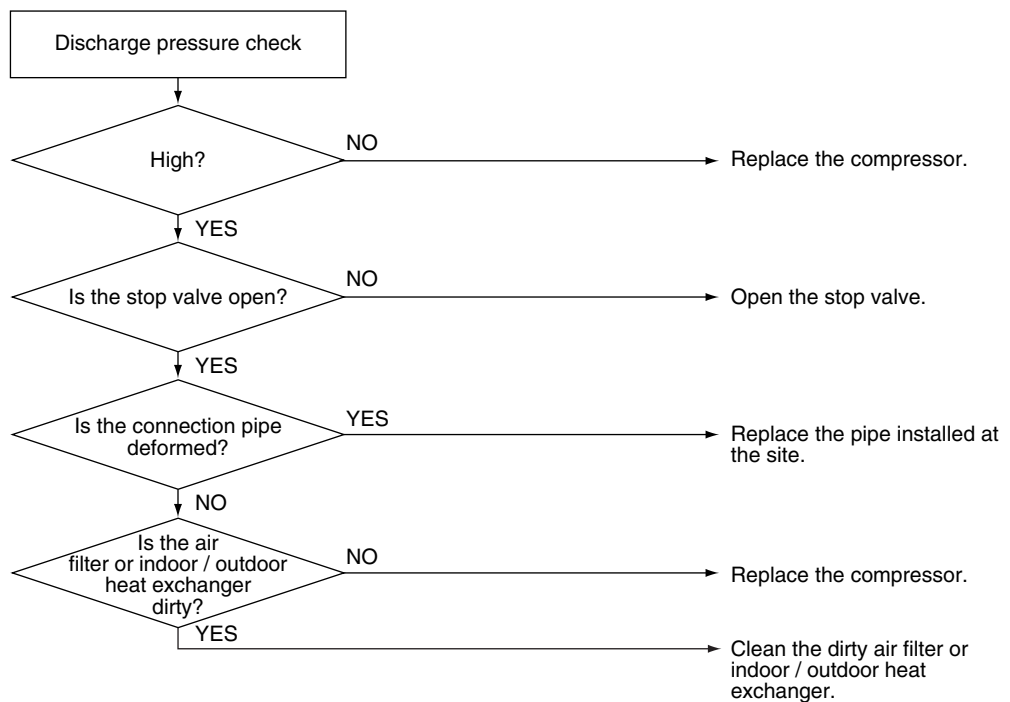
Check No.17



(R19401)

5.10 Discharge Pressure Check

Check No.18

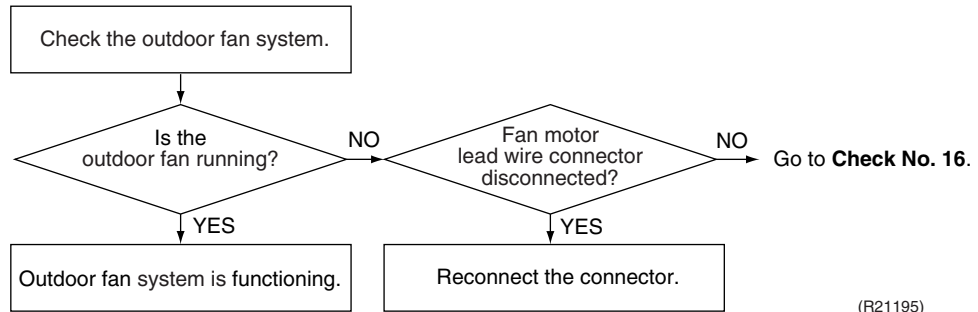


(R19385)

5.11 Outdoor Fan System Check

Check No.19

DC motor



(R21195)

5.12 Main Circuit Short Check

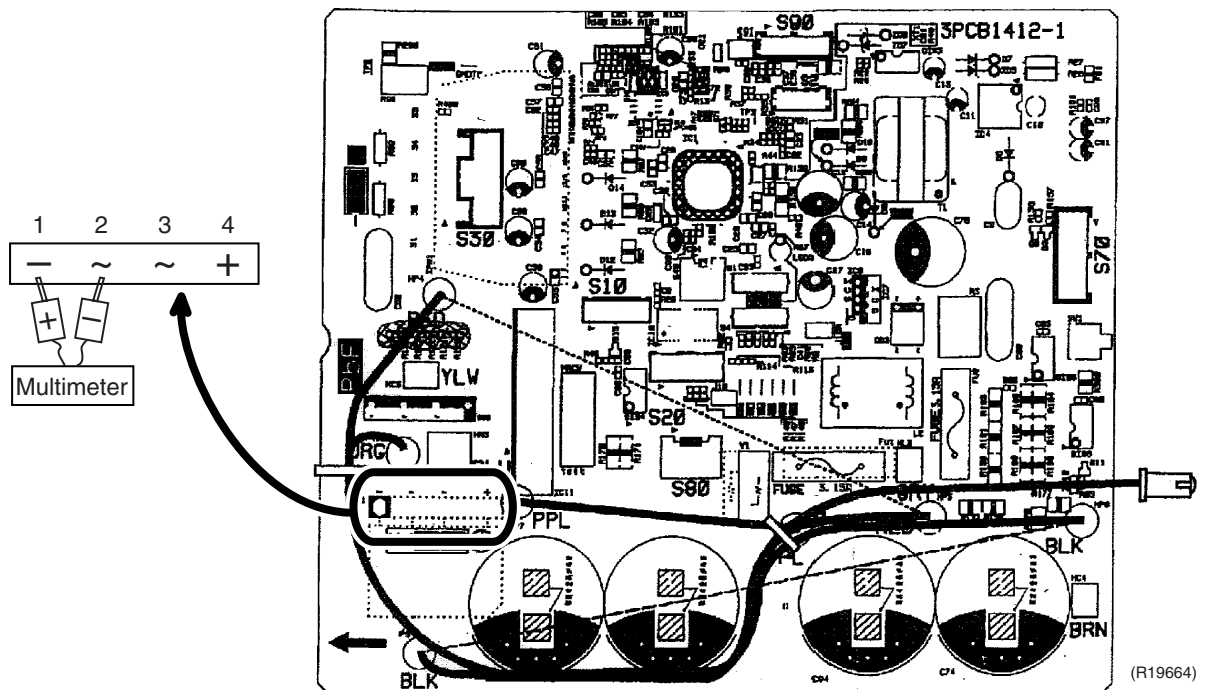
Check No.20

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.

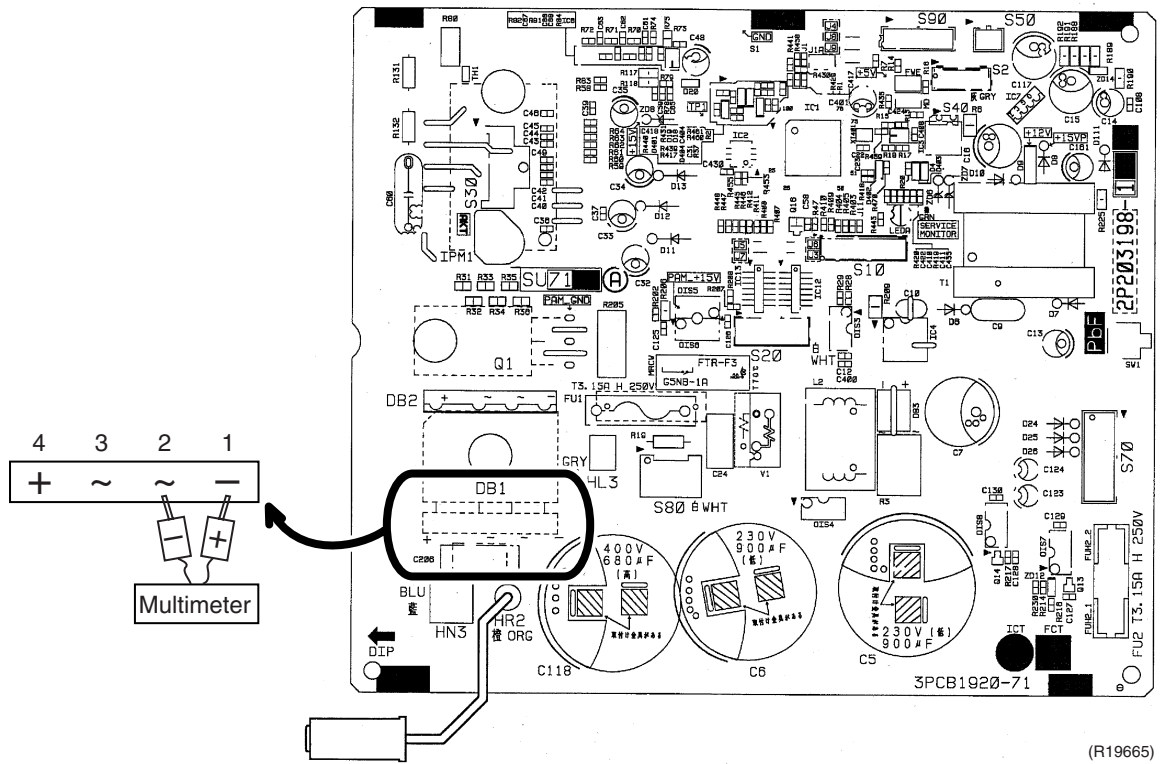
Positive terminal (+) of digital multimeter	~ (2, 3)	+ (4)	~ (2, 3)	- (1)
Negative terminal (-) of digital multimeter	+ (4)	~ (2, 3)	- (1)	~ (2, 3)
Resistance is OK.	several k Ω ~ several M Ω			
Resistance is NG.	0 Ω or ∞			

RK(X)S25/35E2V1B

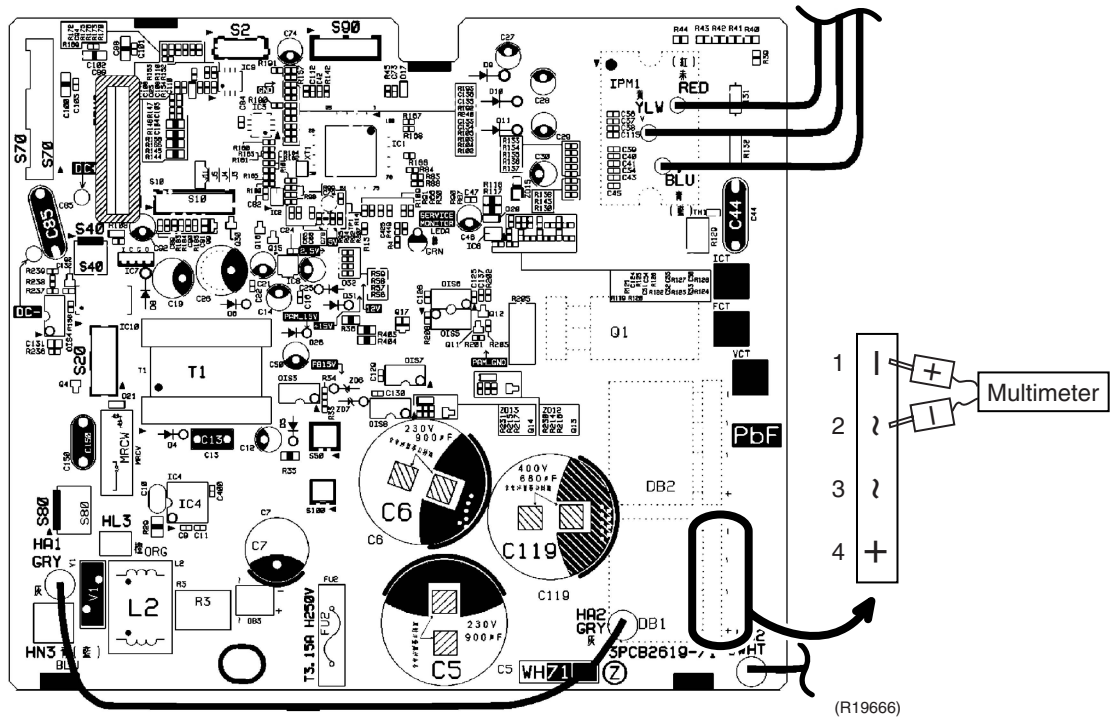


(R19664)

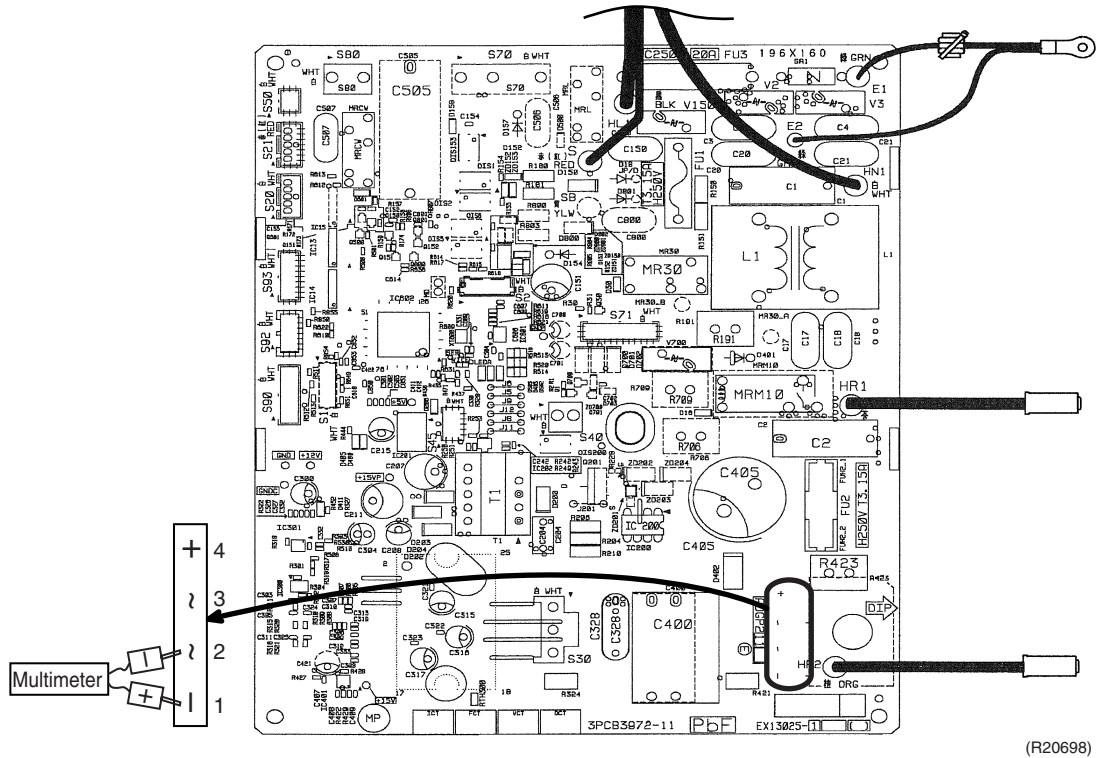
RK(X)S25/35G2V1B



RK(X)S25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B



RXS25/35L3V1B



5.13 Power Module Check

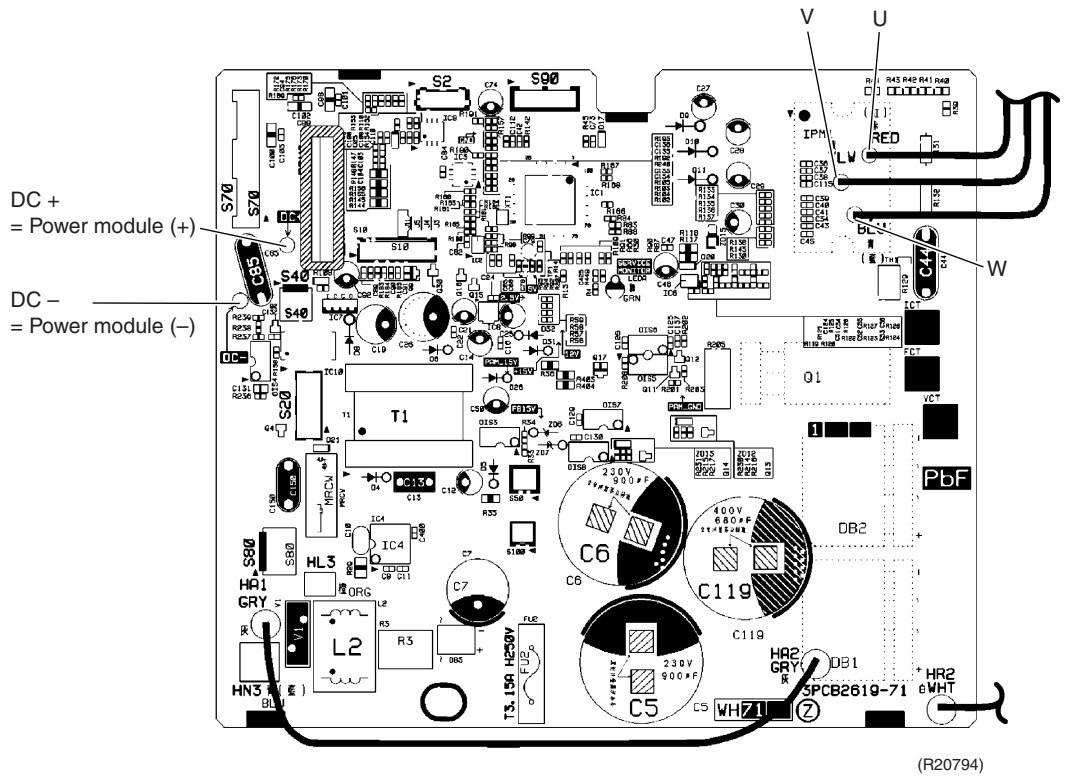
Check No.22

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 kΩ ~ several MΩ			
Resistance is NG.	0 Ω or ∞			

RK(X)S25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B



Part 7

Trial Operation and Field Settings

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- 3. Field Settings119
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 - 3.3 Jumper and Switch Settings.....121
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1. Tips for Servicing

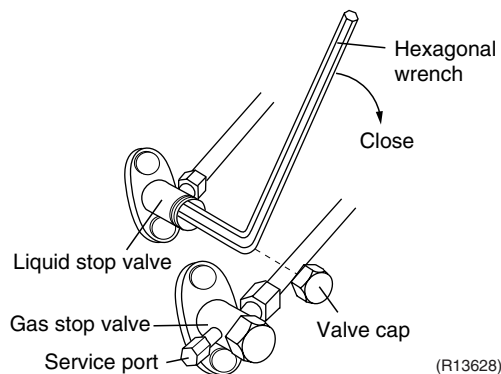
1.1 Pump Down Operation

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 to 10 minutes, close the liquid stop valve with a hexagonal wrench.
- 4) After 2 to 3 minutes, close the gas stop valve and stop the forced cooling operation.

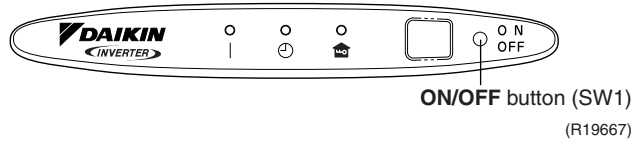


Refer to page 116 for forced cooling operation.

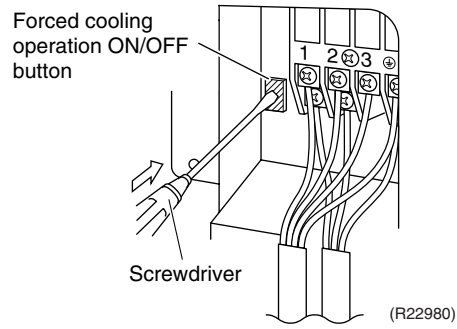
1.2 Forced Cooling Operation

Item	Forced Cooling
Conditions	The forced cooling operation is allowed when both of the following conditions are met. 1) The outdoor unit is not abnormal and not in the 3-minute standby mode. 2) The outdoor unit is not operating.
Start	The forced cooling operation starts when any of the following conditions is fulfilled. 1) Press the forced cooling operation ON/OFF button (SW1) on the indoor unit for 5 seconds. 2) Press the forced cooling operation ON/OFF button (SW1) on the outdoor unit. (RK(X)S25/35E2V1B, RK(X)S25/35G2V1B, RK(X)S25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B only)
Command frequency	RK(X)S25/35E2V1B, RK(X)S25/35G2V1B: 68 Hz RK(X)S25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B: 58 Hz
End	The forced cooling operation ends when any of the following conditions is fulfilled. 1) The operation ends automatically after 15 minutes. 2) Press the forced cooling operation ON/OFF button (SW1) on the indoor unit again. 3) Press the ON/OFF button on the remote controller. 4) Press the forced cooling operation ON/OFF button (SW1) on the outdoor unit. (RK(X)S25/35E2V1B, RK(X)S25/35G2V1B, RK(X)S25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B only)
Others	Protection functions have priority over all other functions during forced cooling operation.

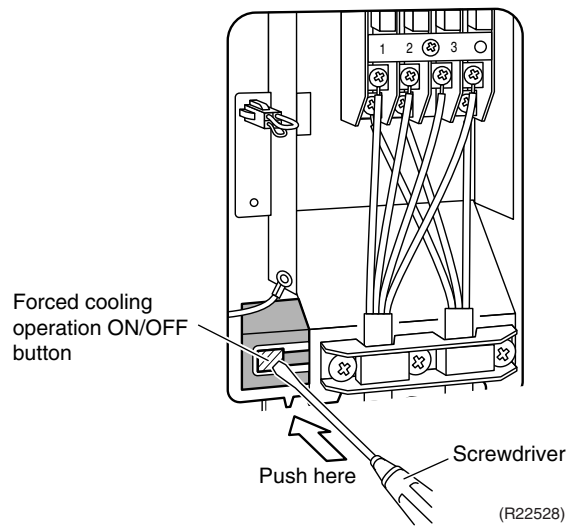
Indoor Unit



Outdoor Unit: RK(X)S25/35E2V1B, RK(X)S25/35G2V1B



Outdoor Unit: RK(X)S25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B



Caution

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

2. 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.

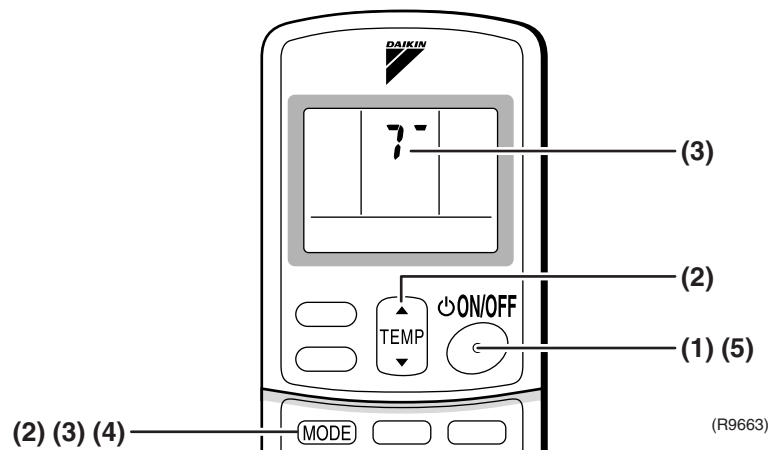
Trial operation should be carried out in either cooling or heating operation.

Detail

1. Measure the power supply voltage and make sure that it falls within the specified range.
2. 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.



(R9663)

3. Field Settings

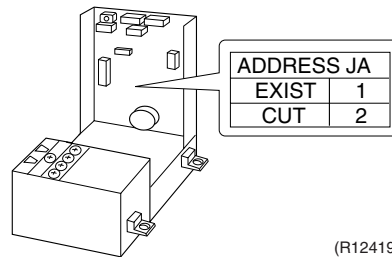
3.1 When 2 Units are Installed in 1 Room

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.



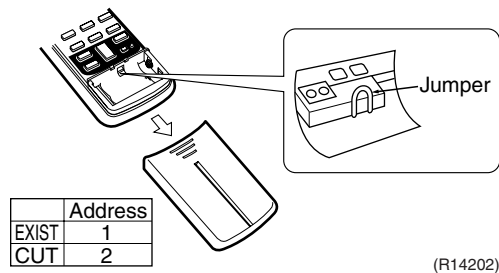
Caution

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.



3.2 Facility Setting Jumper (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 (a place where people are present).

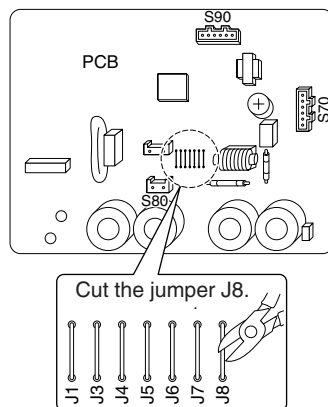
Detail

You can expand the operation range to -15°C by cutting the jumper 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.

■ RKS25/35E2V1B

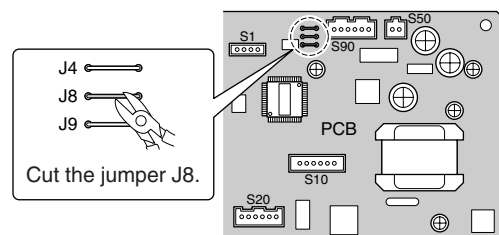
■ RK(X)S25/35G2V1B

Main PCB



(R18373)

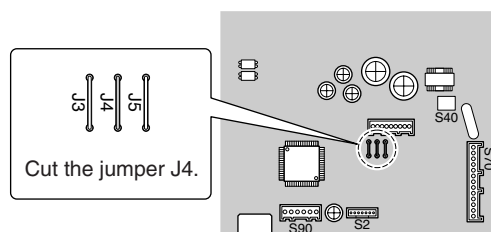
Main PCB



(R18374)

■ RK(X)S25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B

Main PCB



(R18253)



Caution

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.
2. Intermittent noises may be produced by the indoor unit due to the outdoor fan turning on and off when using facility settings.
3. Do not place humidifiers or other items which might raise the humidity in rooms where facility settings are being used.
A humidifier might cause dew condensation from the indoor unit outlet vent.
4. Cutting the jumper sets the indoor fan tap to the highest position.

3.3 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.

Function	Switch	FLOOR (factory setting)	CEILING
Installation style changeover	SW2	When installed as the floor mounted type	When installed as the ceiling suspended type



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

Outdoor Unit

Function	Jumper	Jumper: connected (factory setting)	Jumper: cut
Improvement of defrost performance	RK(X)S25/35E2V1B → J5 RK(X)S25/35G2V1B → J5 RK(X)S25/35G2V1B9 → J5 RXS25/35J2V1B → J5 RXS25K3V1B → J5 RXS35K2V1B → J5 RXS25/35L2V1B → J5	Standard control	Reinforced control (Ex: The frequency increases, the duration time of defrost lengthens.)



For the location of the jumper, refer to page 21, 23, 25.



Caution

Replace the PCB if you accidentally cut a wrong jumper.

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

4. Silicone Grease on Power Transistor / Diode Bridge

Outline

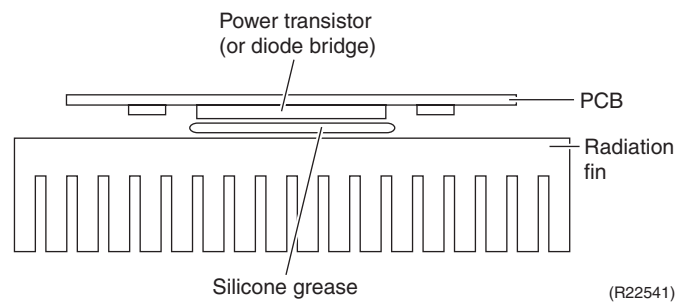
Apply the specified silicone grease to the heat radiation part of a power transistor / diode bridge when you replace an outdoor unit PCB. The silicone grease encourages the heat radiation of a power transistor / diode bridge.

Detail

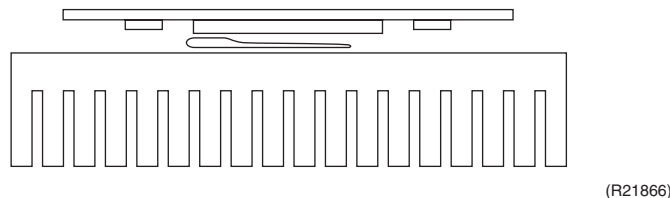
1. Wipe off the old silicone grease completely.
2. Apply the silicone grease evenly. See the illustrations below for examples of application.
3. Tighten the screws of the power transistor / diode bridge.
4. Make sure that the heat radiation parts are firmly contacted to the radiation fin.

Note: Smoke emission may be caused by bad heat radiation when the silicone grease is not appropriately applied.

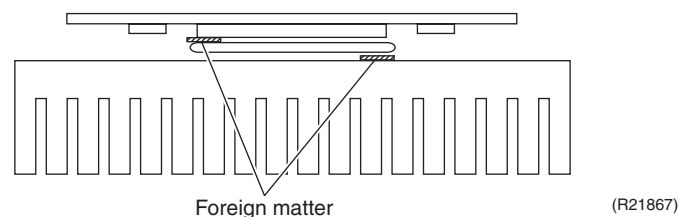
- OK: Evenly applied



- NG: Not evenly applied



- NG: Foreign matter is stuck.



Part 8

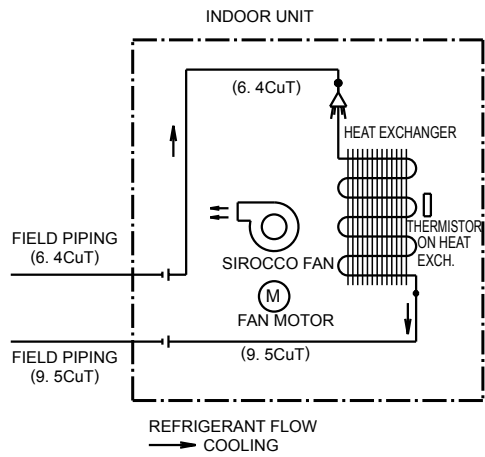
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1.2 Outdoor Unit.....	125
2. Wiring Diagrams.....	128
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1. Piping Diagrams

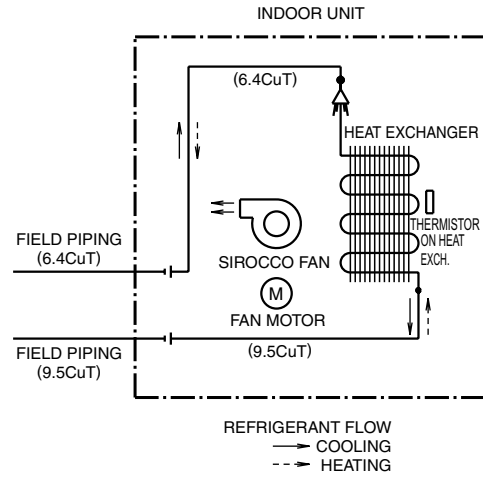
1.1 Indoor Unit

FLKS25/35BAVMB



4D034012E

FLXS25/35BAVMB, FLXS35BAVMB9

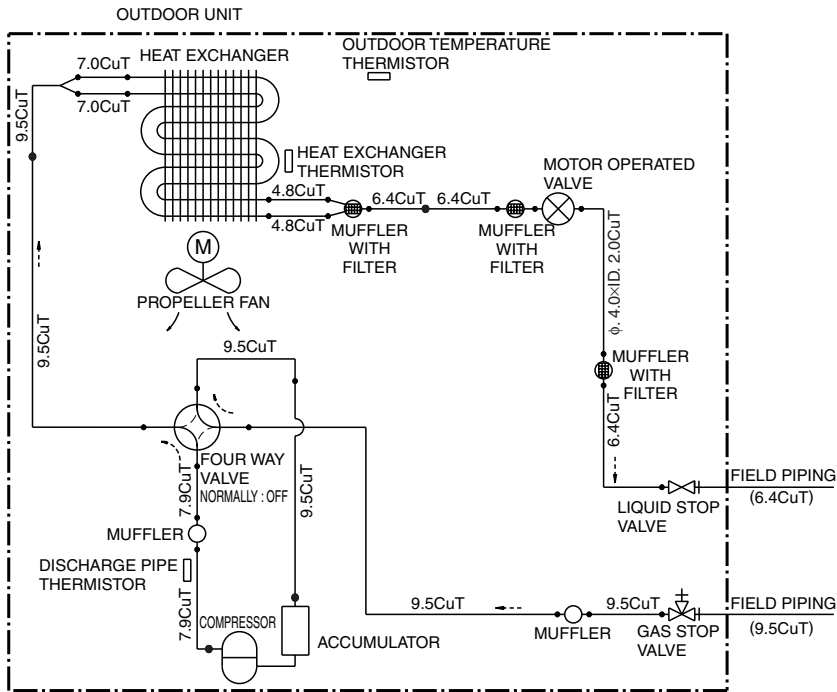


4D048722C

1.2 Outdoor Unit

1.2.1 Cooling Only

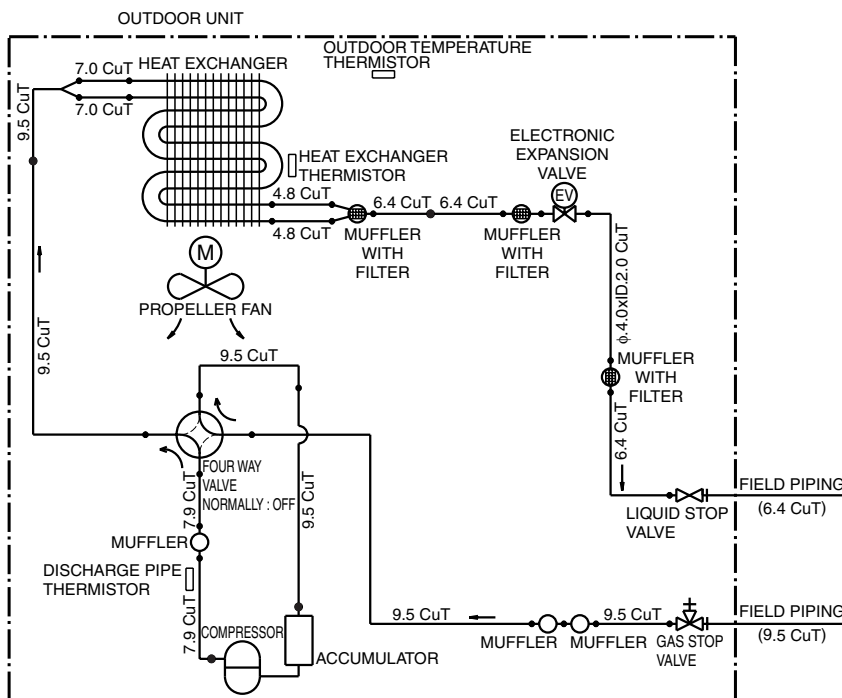
RKS25/35E2V1B



REFRIGERANT FLOW
 ---> COOLING

3D047318G

RKS25/35G2V1B, RKS25/35G2V1B9

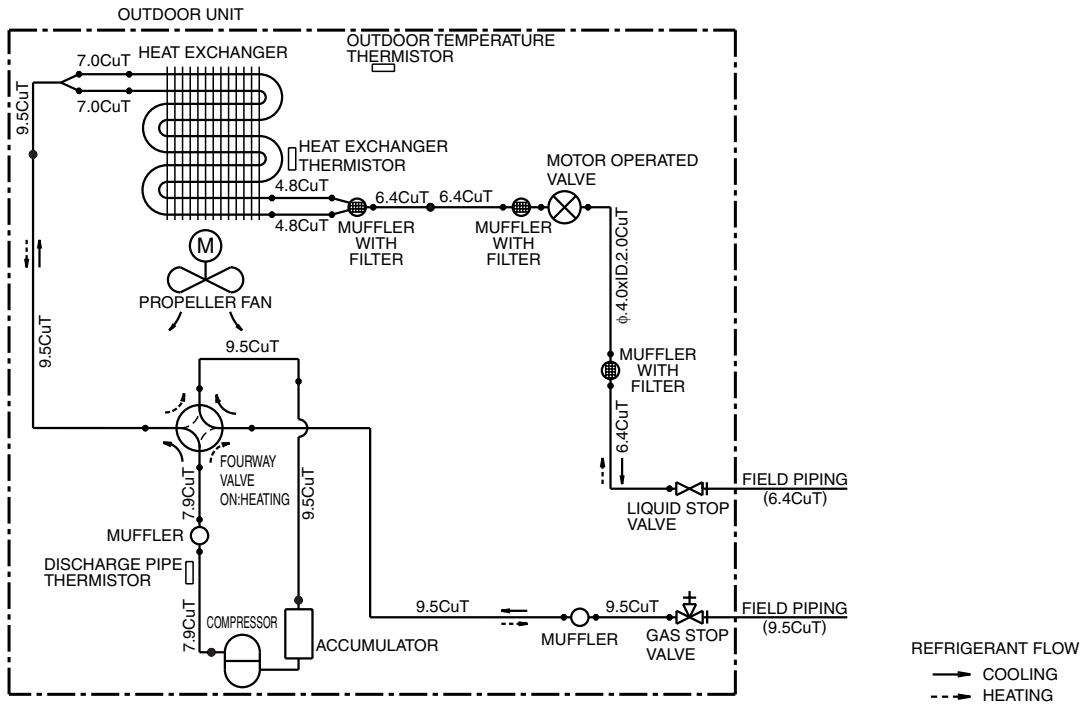


REFRIGERANT FLOW
 → COOLING

3D059589H

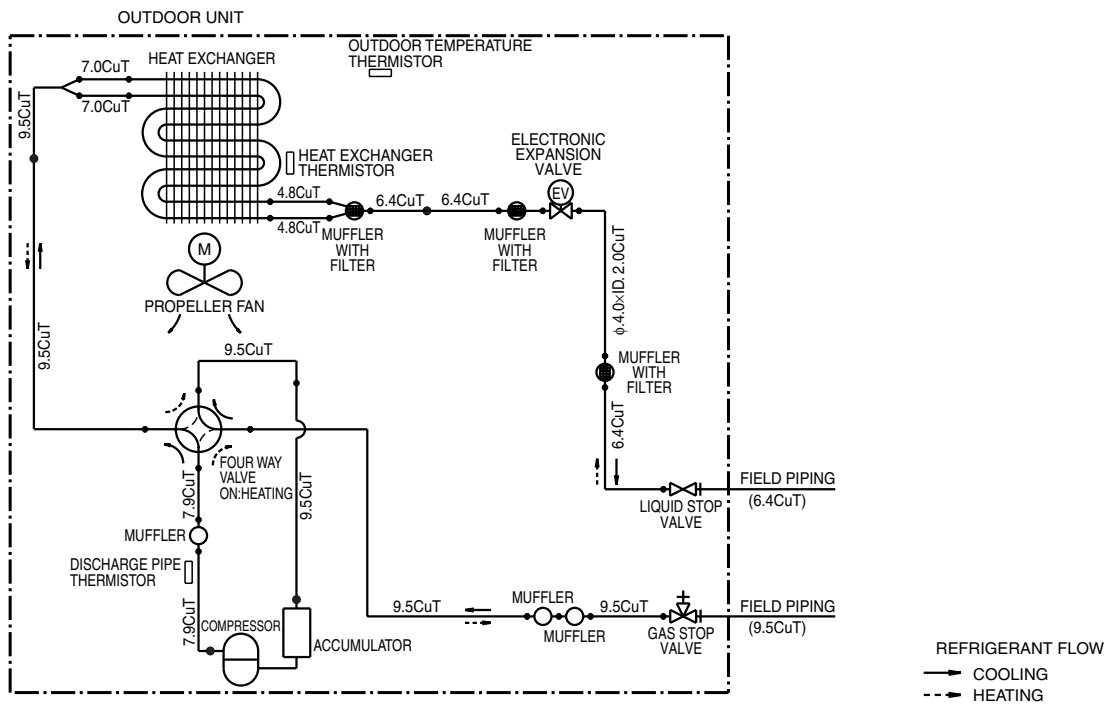
1.2.2 Heat Pump

RXS25/35E2V1B



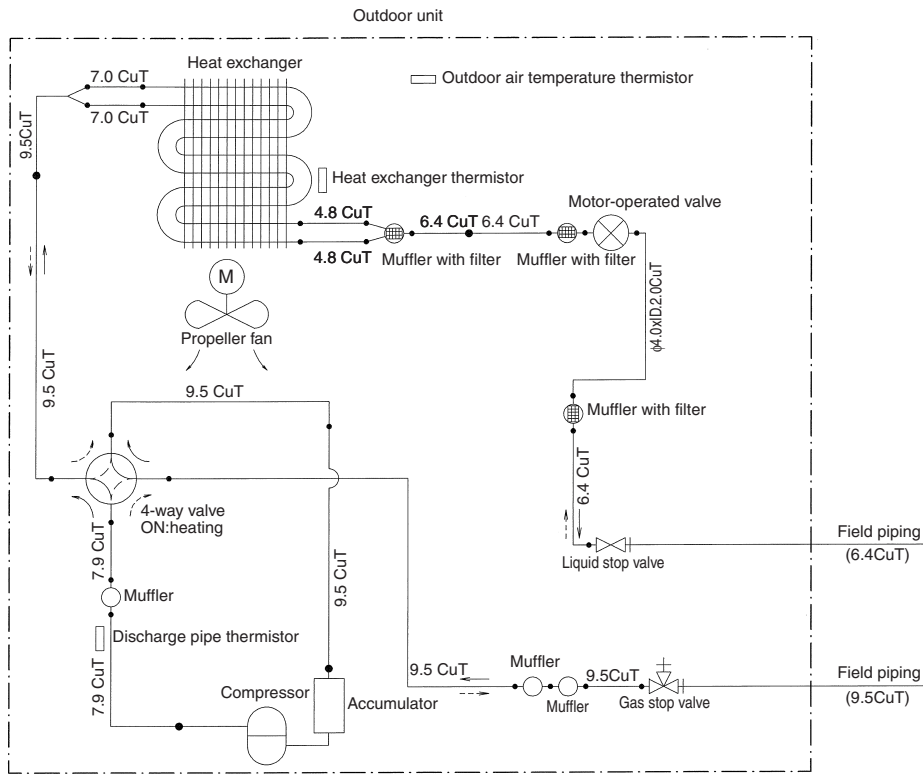
3D047316S

RXS25/35G2V1B, RXS25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B



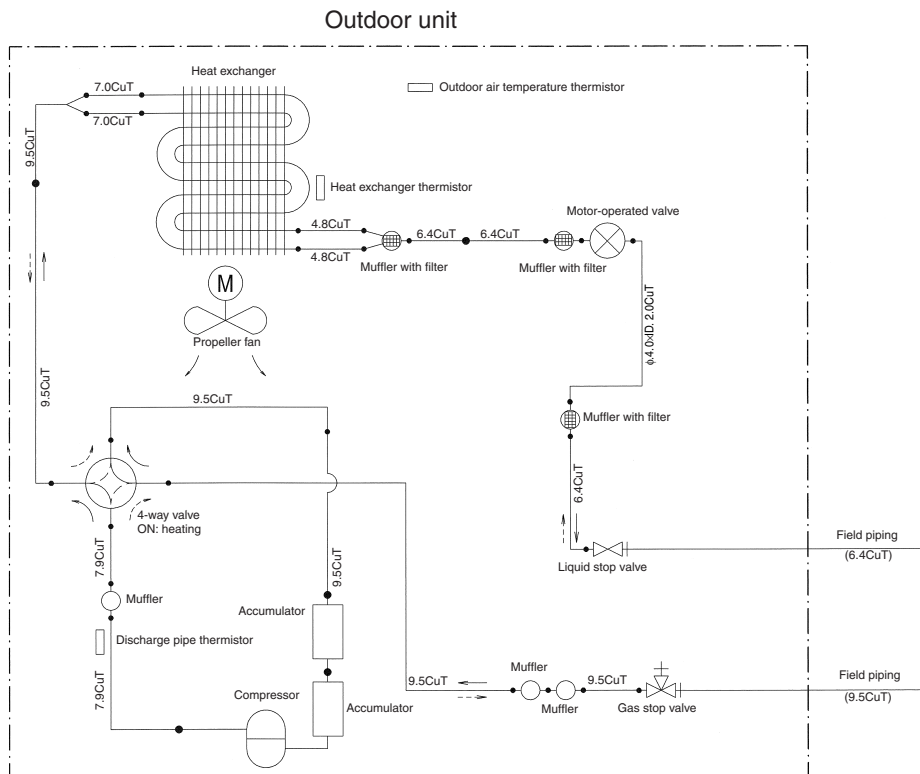
3D059586W

RXS25L3V1B



3D091995A

RXS35L3V1B

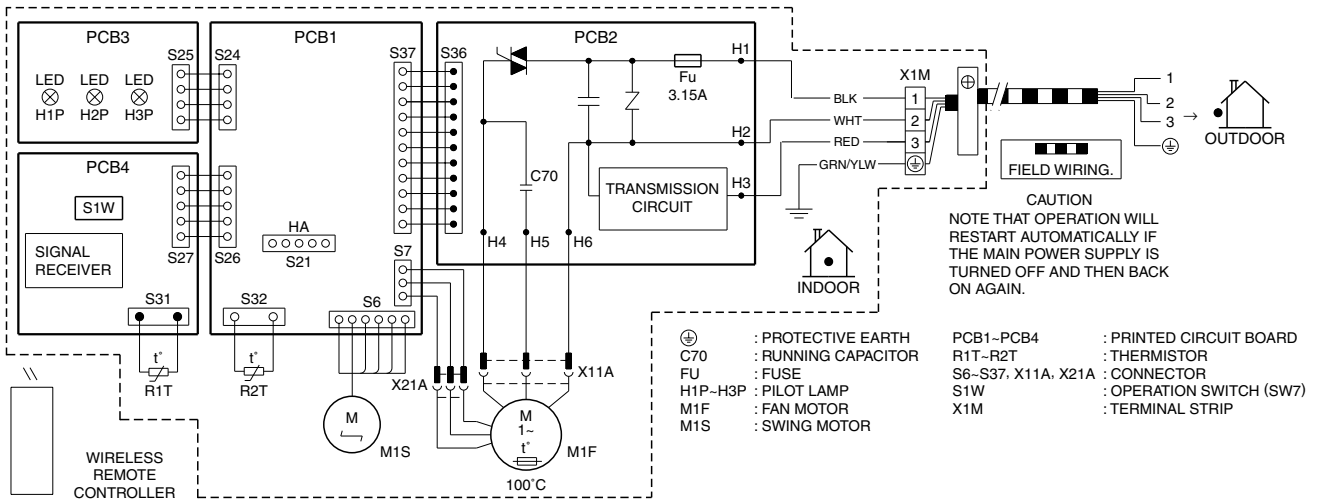


3D092419

2. Wiring Diagrams

2.1 Indoor Unit

FLK(X)S25/35BAVMB, FLXS35BAVMB9



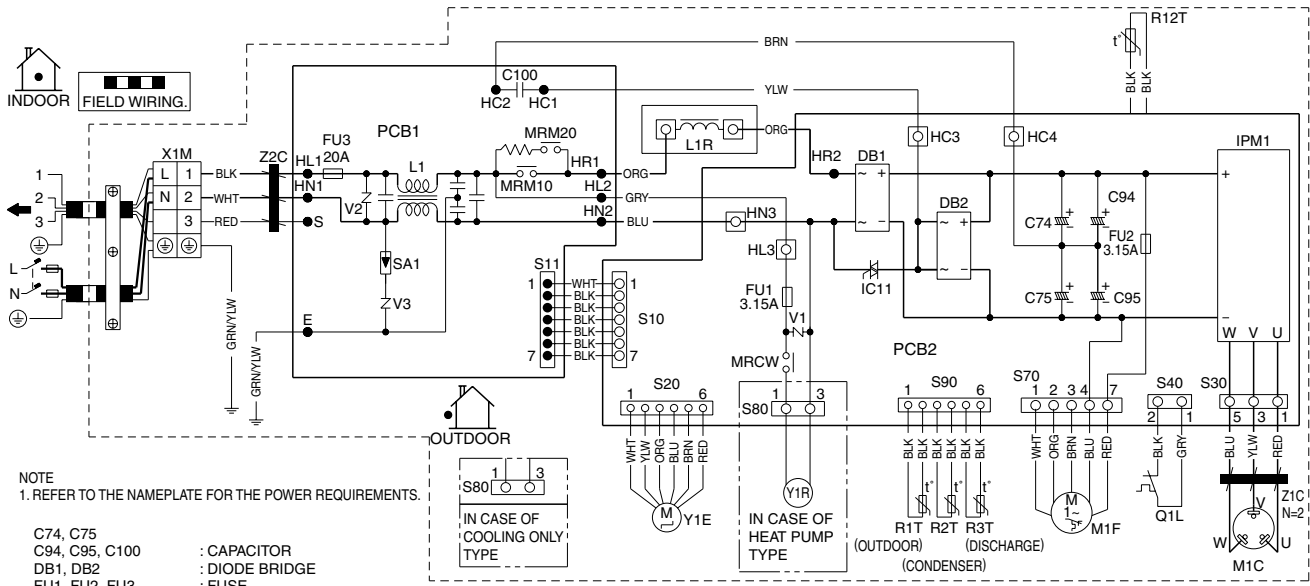
3D033909G



Note: PCB1: Control PCB
 PCB2: Power Supply PCB
 PCB3: Display PCB
 PCB4: Signal Receiver PCB
 Refer to Part 3 for Printed Circuit Board Connector Wiring Diagram.

2.2 Outdoor Unit

RK(X)S25/35E2V1B



NOTE

1. REFER TO THE NAMEPLATE FOR THE POWER REQUIREMENTS.

- C74, C75 : CAPACITOR
- C94, C95, C100 : CAPACITOR
- DB1, DB2 : DIODE BRIDGE
- FU1, FU2, FU3 : FUSE
- IC11 : TRIAC
- IPM1 : INTELLIGENT POWER MODULE
- L : LIVE
- L1 : COIL
- L1R : REACTOR
- M1C : COMPRESSOR MOTOR
- M1F : FAN MOTOR
- MRCW, MRM10, MRM20 : MAGNETIC RELAY

- N : NEUTRAL
- PCB1, PCB2 : PRINTED CIRCUIT BOARD
- Q1L : OVERLOAD PROTECTOR
- R1T, R2T, R3T, R12T : THERMISTOR
- S10, S11, S20 : CONNECTOR
- S30, S40, S70 : CONNECTOR
- S80, S90, S91 : CONNECTOR
- HC3, HC4, HL3, HN3 : CONNECTOR

- SA1 : SURGE ARRESTER
- V1, V2, V3 : VARISTOR
- X1M : TERMINAL STRIP
- Y1E : ELECTRONIC EXPANSION VALVE COIL
- Y1R : REVERSING SOLENOID VALVE COIL
- Z1C, Z2C : FERRITE CORE
- ⊕ : PROTECTIVE EARTH

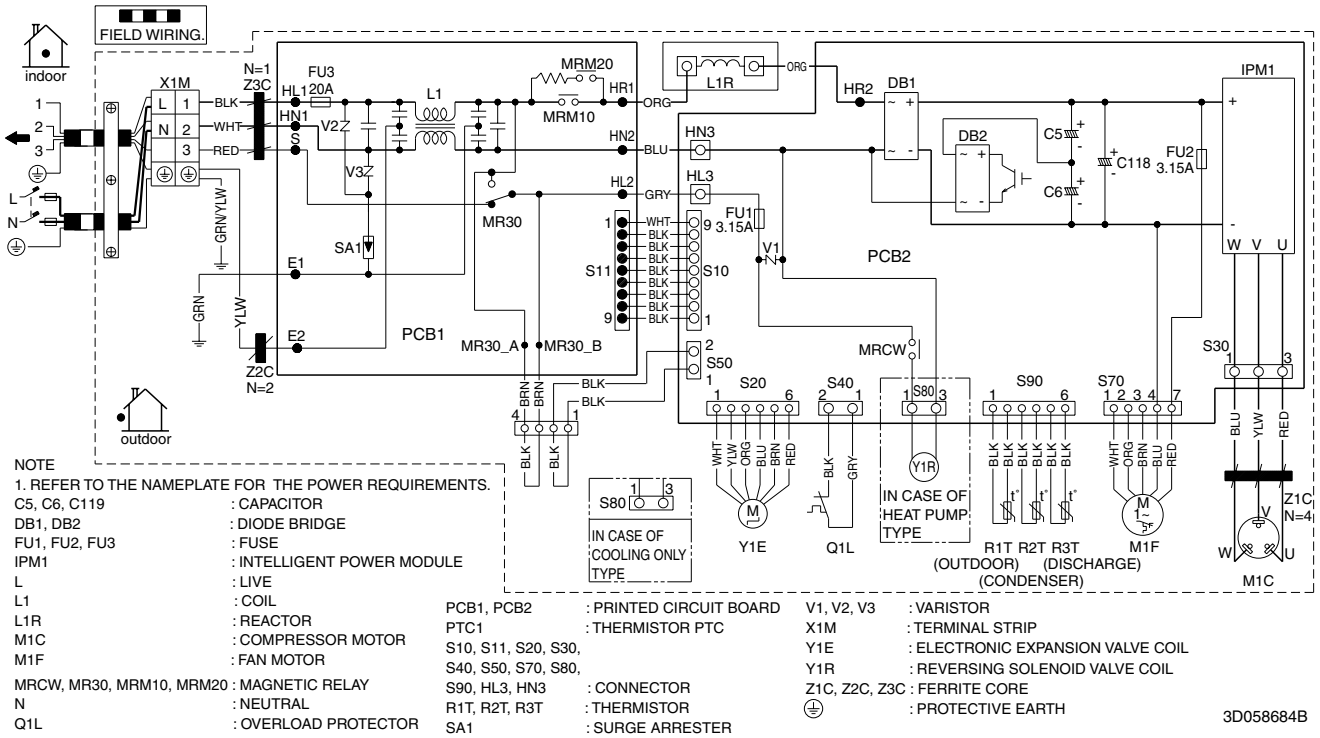
3D046707P



Note:

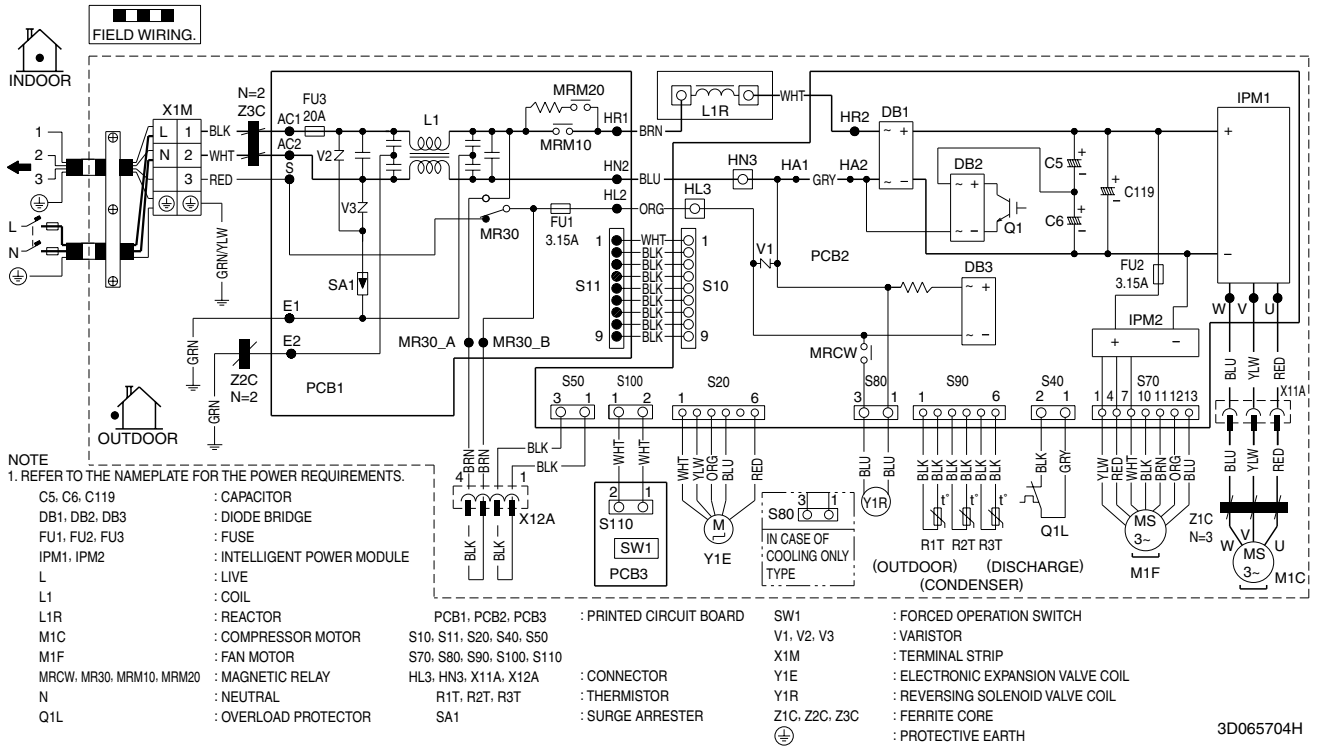
PCB1: Filter PCB
 PCB2: Main PCB
 Refer to Part 3 for Printed Circuit Board Connector Wiring Diagram.

RK(X)S25/35G2V1B



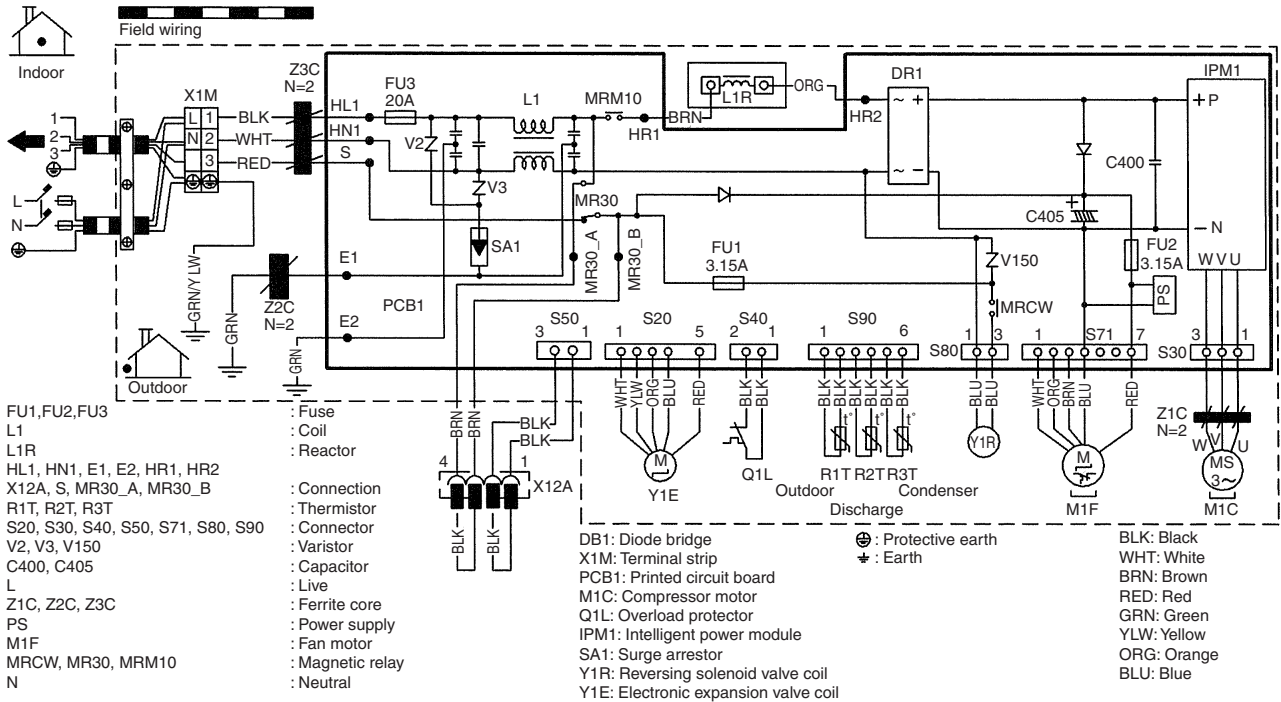
Note: PCB1: Filter PCB
 PCB2: Main PCB
 Refer to Part 3 for Printed Circuit Board Connector Wiring Diagram.

RK(X)S25/35G2V1B9, RXS25/35J2V1B, RXS25K3V1B, RXS35K2V1B, RXS25/35L2V1B



i Note: PCB1: Filter PCB
 PCB2: Main PCB
 PCB3: Forced Operation Button PCB
 Refer to Part 3 for Printed Circuit Board Connector Wiring Diagram.

RXS25/35L3V1B



For the power requirements, refer to the nameplate.

4D090151



Note: PCB1: Main PCB
Refer to Part 3 for Printed Circuit Board Connector Wiring Diagram.

Revision History

Month / Year	Version	Revised contents
01 / 2007	SiBE05-722	First edition
05 / 2010	SiBE05-722_A	Model addition: RK(X)S25/35G2V1B, RK(X)S25/35G2V1B9
01 / 2011	SiBE05-722_B	Model addition: RXS25/35J2V1B
12 / 2012	SiBE05-722_C	Model addition: RXS25K3V1B, RXS35K2V1B
01 / 2014	SiBE05-722ED	Model addition: FLXS35BAVMB9, RXS35L2V1B
01 / 2016	SiBE05-722EE	Model addition: RXS25L2V1B, RXS25/35L3V1B Part 6, 7 (page 58-122): Reference only

Warning



- 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

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. 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

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