



SiUS281811EC

R-410A

Service Manual

SkyAir



RZR-TA/TB, RZQ-TA/TB Series

**Cooling Only 60 Hz
Heat Pump 60 Hz**

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Introduction

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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.

| | |
|---|--|
|  | This manual is for the person in charge of maintenance and inspection. |
|---|--|







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 | |
|--|---|
| <p>Do not store equipment in a room with fire sources (e.g., naked flames, gas appliances, electric heaters).</p> |  |
| <p>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.</p> |  |
| <p>If refrigerant gas is discharged during repair work, do not touch the discharged refrigerant gas. Refrigerant gas may cause frostbite.</p> |  |
| <p>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.</p> |  |
| <p>If refrigerant gas leaks during repair work, ventilate the area. Refrigerant gas may generate toxic gases when it contacts flames.</p> |  |







|  Warning | |
|--|---|
| <p>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.</p> |  |
| <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 (6.5 ft)). Insufficient safety measures may cause a fall.</p> |  |
| <p>In case of R-410A refrigerant models, be sure to use pipes, flare nuts and tools intended for the exclusive use with the R-410A refrigerant. The use of materials for other refrigerant models may cause a serious accident, such as damage to the refrigerant cycle or equipment failure.</p> |  |
| <p>Do not mix air or gas other than the specified refrigerant (R-410A) 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> |  |





|  Caution | |
|--|---|
| 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. |  |
| Conduct welding work in a well-ventilated place. Using the welder in an enclosed room may cause oxygen deficiency. |  |

1.2 Warnings and Cautions Regarding Safety of Users

|  Warning | |
|--|---|
| Do not store the equipment in a room with fire sources (e.g., naked flames, gas appliances, electric heaters). |  |
| 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. |  |
| 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. |  |
| 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. |  |
| Be sure to use an exclusive power circuit for the equipment, and follow the local technical standards related to the electrical equipment, the internal wiring regulations, and the instruction manual for installation when conducting electrical work. Insufficient power circuit capacity and improper electrical work may cause an electrical shock or fire. |  |
| Be sure to use the specified cable for wiring between the indoor and outdoor units. Make the connections securely and route the cable properly so that there is no force pulling the cable at the connection terminals. Improper connections may cause excessive heat generation or fire. |  |
| When wiring between the indoor and outdoor units, make sure that the terminal cover does not lift off or dismount because of the cable. If the cover is not mounted properly, the terminal connection section may cause an electrical shock, excessive heat generation or fire. |  |
| Do not damage or modify the power cable. Damaged or modified power 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. |  |





|  Warning | |
|--|--|
| <p>Do not mix air or gas other than the specified refrigerant (R-410A) 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> |  |
| <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> |  |

|  Caution | |
|--|---|
| <p>Be sure to measure insulation resistance after the repair, and make sure that the resistance is 1 MΩ or greater. 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 | Warning is used when there is danger of personal injury. |
|  Caution | Caution | 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 | Note provides information that is not indispensable, but may nevertheless be valuable to the reader, such as tips and tricks. |
|  Reference | Reference | 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. |

3. Revision History

| Month / Year | Version | Revised contents |
|--------------|--------------|--|
| 04 / 2019 | SiUS281811E | First edition |
| 03 / 2020 | SiUS281811EA | Model addition: RZR18-48TAVJUA, RZQ18-48TAVJUA |
| 12 / 2022 | SiUS281811EB | Model addition: RZR18-48TBVJUA, RZQ18-48TBVJUA, FCQ18-48AAVJU, FBQ18-48TBVJU, BRC1H71W |
| 03 / 2023 | — | Correction of field settings |
| 06 / 2023 | — | Correction of field settings |
| 10 / 2023 | SiUS281811EC | Model addition: RZR18-48TBVJUB, RZQ18-48TBVJUB, FTQ18-48TBVJUD, FTQ18-48TBVJUA |

Part 1

General Information

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1. Model Names and Power Supply

1.1 Cooling Only

| Indoor unit | | Outdoor unit | Power supply |
|--|-------------|--------------|---|
| Ceiling mounted cassette type (Round flow with sensing panel) | FCQ18TAVJU | RZR18TAVJU | Indoor unit: 1 phase, 208/230 V, 60 Hz Outdoor unit: 1 phase, 208/230 V, 60 Hz |
| | FCQ24TAVJU | RZR24TAVJU | |
| | FCQ30TAVJU | RZR30TAVJU | |
| | FCQ36TAVJU | RZR36TAVJU | |
| | FCQ42TAVJU | RZR42TAVJU | |
| | FCQ48TAVJU | RZR48TAVJU | |
| | FCQ18TAVJUA | RZR18TAVJUA | |
| | FCQ24TAVJUA | RZR24TAVJUA | |
| | FCQ30TAVJUA | RZR30TAVJUA | |
| | FCQ36TAVJUA | RZR36TAVJUA | |
| | FCQ42TAVJUA | RZR42TAVJUA | |
| | FCQ48TAVJUA | RZR48TAVJUA | |
| | FCQ18AAVJU | RZR18TBVJUA | |
| | FCQ24AAVJU | RZR24TBVJUA | |
| | FCQ30AAVJU | RZR30TBVJUA | |
| | FCQ36AAVJU | RZR36TBVJUA | |
| | FCQ42AAVJU | RZR42TBVJUA | |
| | FCQ48AAVJU | RZR48TBVJUA | |
| | FCQ18AAVJUB | RZR18TBVJUB | |
| | FCQ24AAVJUB | RZR24TBVJUB | |
| FCQ30AAVJUB | RZR30TBVJUB | | |
| FCQ36AAVJUB | RZR36TBVJUB | | |
| FCQ42AAVJUB | RZR42TBVJUB | | |
| FCQ48AAVJUB | RZR48TBVJUB | | |
| Ceiling suspended type | FHQ18PVJU | RZR18TAVJU | Indoor unit: 1 phase, 208/230 V, 60 Hz Outdoor unit: 1 phase, 208/230 V, 60 Hz |
| | FHQ24PVJU | RZR24TAVJU | |
| | FHQ30PVJU | RZR30TAVJU | |
| | FHQ36MVJU | RZR36TAVJU | |
| | FHQ42MVJU | RZR42TAVJU | |
| | FHQ18PVJUA | RZR18TAVJUA | |
| | FHQ24PVJUA | RZR24TAVJUA | |
| | FHQ30PVJUA | RZR30TAVJUA | |
| | FHQ36MVJUA | RZR36TAVJUA | |
| | FHQ42MVJUA | RZR42TAVJUA | |
| Wall mounted type | FAQ18TAVJU | RZR18TAVJU | Indoor unit: 1 phase, 208/230 V, 60 Hz Outdoor unit: 1 phase, 208/230 V, 60 Hz |
| | FAQ24TAVJU | RZR24TAVJU | |
| | FAQ18TAVJUA | RZR18TAVJUA | |
| | FAQ24TAVJUA | RZR24TAVJUA | |
| | FAQ18TAVJUB | RZR18TBVJUA | |
| | FAQ24TAVJUB | RZR24TBVJUA | |
| | FAQ18TAVJUB | RZR18TBVJUB | |
| | FAQ24TAVJUB | RZR24TBVJUB | |

| Indoor unit | | Outdoor unit | Power supply |
|----------------------------------|-------------|--------------|---|
| HSP ceiling mounted duct type | FBQ18PVJU | RZR18TAVJU | Indoor unit: 1 phase, 208/230 V, 60 Hz Outdoor unit: 1 phase, 208/230 V, 60 Hz |
| | FBQ24PVJU | RZR24TAVJU | |
| | FBQ30PVJU | RZR30TAVJU | |
| | FBQ36PVJU | RZR36TAVJU | |
| | FBQ42PVJU | RZR42TAVJU | |
| | FBQ48PVJU | RZR48TAVJU | |
| | FBQ18PVJUA | RZR18TAVJUA | |
| | FBQ24PVJUA | RZR24TAVJUA | |
| | FBQ30PVJUA | RZR30TAVJUA | |
| | FBQ36PVJUA | RZR36TAVJUA | |
| | FBQ42PVJUA | RZR42TAVJUA | |
| | FBQ48PVJUA | RZR48TAVJUA | |
| | FBQ18TBVJU | RZR18TBVJUA | |
| | FBQ24TBVJU | RZR24TBVJUA | |
| | FBQ30TBVJU | RZR30TBVJUA | |
| | FBQ36TBVJU | RZR36TBVJUA | |
| | FBQ42TBVJU | RZR42TBVJUA | |
| | FBQ48TBVJU | RZR48TBVJUA | |
| | FBQ18TBVJUB | RZR18TBVJUB | |
| | FBQ24TBVJUB | RZR24TBVJUB | |
| FBQ30TBVJUB | RZR30TBVJUB | | |
| FBQ36TBVJUB | RZR36TBVJUB | | |
| FBQ42TBVJUB | RZR42TBVJUB | | |
| FBQ48TBVJUB | RZR48TBVJUB | | |
| Multi position air handling unit | FTQ18TAVJUD | RZR18TAVJU | Indoor unit: 1 phase, 208/230 V, 60 Hz Outdoor unit: 1 phase, 208/230 V, 60 Hz |
| | FTQ24TAVJUD | RZR24TAVJU | |
| | FTQ30TAVJUD | RZR30TAVJU | |
| | FTQ36TAVJUD | RZR36TAVJU | |
| | FTQ42TAVJUD | RZR42TAVJU | |
| | FTQ48TAVJUD | RZR48TAVJU | |
| | FTQ18TAVJUA | RZR18TAVJUA | |
| | FTQ24TAVJUA | RZR24TAVJUA | |
| | FTQ30TAVJUA | RZR30TAVJUA | |
| | FTQ36TAVJUA | RZR36TAVJUA | |
| | FTQ42TAVJUA | RZR42TAVJUA | |
| | FTQ48TAVJUA | RZR48TAVJUA | |
| | FTQ18TBVJUA | RZR18TBVJUA | |
| | FTQ24TBVJUA | RZR24TBVJUA | |
| | FTQ30TBVJUA | RZR30TBVJUA | |
| | FTQ36TBVJUA | RZR36TBVJUA | |
| | FTQ42TBVJUA | RZR42TBVJUA | |
| | FTQ48TBVJUA | RZR48TBVJUA | |
| | FTQ18TBVJUB | RZR18TBVJUB | |
| | FTQ24TBVJUB | RZR24TBVJUB | |
| FTQ30TBVJUB | RZR30TBVJUB | | |
| FTQ36TBVJUB | RZR36TBVJUB | | |
| FTQ42TBVJUB | RZR42TBVJUB | | |
| FTQ48TBVJUB | RZR48TBVJUB | | |

| Indoor unit | | Outdoor unit | Power supply |
|----------------------------------|-------------|--------------|---|
| Multi position air handling unit | FTQ18TAVJUA | RZR18TAVJU | Indoor unit: 1 phase, 208/230 V, 60 Hz Outdoor unit: 1 phase, 208/230 V, 60 Hz |
| | FTQ24TAVJUA | RZR24TAVJU | |
| | FTQ30TAVJUA | RZR30TAVJU | |
| | FTQ36TAVJUA | RZR36TAVJU | |
| | FTQ42TAVJUA | RZR42TAVJU | |
| | FTQ48TAVJUA | RZR48TAVJU | |
| | FTQ18TAVJUA | RZR18TAVJUA | |
| | FTQ24TAVJUA | RZR24TAVJUA | |
| | FTQ30TAVJUA | RZR30TAVJUA | |
| | FTQ36TAVJUA | RZR36TAVJUA | |
| | FTQ42TAVJUA | RZR42TAVJUA | |
| | FTQ48TAVJUA | RZR48TAVJUA | |
| | FTQ18TAVJUA | RZR18TBVJUA | |
| | FTQ24TAVJUA | RZR24TBVJUA | |
| | FTQ30TAVJUA | RZR30TBVJUA | |
| | FTQ36TAVJUA | RZR36TBVJUA | |
| | FTQ42TAVJUA | RZR42TBVJUA | |
| | FTQ48TAVJUA | RZR48TBVJUA | |
| | FTQ18TBVJUA | RZR18TBVJUB | |
| | FTQ24TBVJUA | RZR24TBVJUB | |
| FTQ30TBVJUA | RZR30TBVJUB | | |
| FTQ36TBVJUA | RZR36TBVJUB | | |
| FTQ42TBVJUA | RZR42TBVJUB | | |
| FTQ48TBVJUA | RZR48TBVJUB | | |



Note(s)

- 1. Power supply intake: outdoor unit
- 2. VJ: 1 phase, 208/230 V, 60 Hz
- U (VJU): Standard symbol
- A, B: Minor revision

1.2 Heat Pump

| Indoor unit | Outdoor unit | Power supply |
|--|--------------|--------------|
| Ceiling mounted cassette type (Round flow with sensing panel) | FCQ18TAVJU | RZQ18TAVJU |
| | FCQ24TAVJU | RZQ24TAVJU |
| | FCQ30TAVJU | RZQ30TAVJU |
| | FCQ36TAVJU | RZQ36TAVJU |
| | FCQ42TAVJU | RZQ42TAVJU |
| | FCQ48TAVJU | RZQ48TAVJU |
| | FCQ18TAVJU | RZQ18TAVJUA |
| | FCQ24TAVJU | RZQ24TAVJUA |
| | FCQ30TAVJU | RZQ30TAVJUA |
| | FCQ36TAVJU | RZQ36TAVJUA |
| | FCQ42TAVJU | RZQ42TAVJUA |
| | FCQ48TAVJU | RZQ48TAVJUA |
| | FCQ18AAVJU | RZQ18TBVJUA |
| | FCQ24AAVJU | RZQ24TBVJUA |
| | FCQ30AAVJU | RZQ30TBVJUA |
| | FCQ36AAVJU | RZQ36TBVJUA |
| | FCQ42AAVJU | RZQ42TBVJUA |
| | FCQ48AAVJU | RZQ48TBVJUA |
| | FCQ18AAVJU | RZQ18TBVJUB |
| | FCQ24AAVJU | RZQ24TBVJUB |
| FCQ30AAVJU | RZQ30TBVJUB | |
| FCQ36AAVJU | RZQ36TBVJUB | |
| FCQ42AAVJU | RZQ42TBVJUB | |
| FCQ48AAVJU | RZQ48TBVJUB | |
| Ceiling suspended type | FHQ18PVJU | RZQ18TAVJU |
| | FHQ24PVJU | RZQ24TAVJU |
| | FHQ30PVJU | RZQ30TAVJU |
| | FHQ36MVJU | RZQ36TAVJU |
| | FHQ42MVJU | RZQ42TAVJU |
| | FHQ18PVJU | RZQ18TAVJUA |
| | FHQ24PVJU | RZQ24TAVJUA |
| | FHQ30PVJU | RZQ30TAVJUA |
| | FHQ36MVJU | RZQ36TAVJUA |
| | FHQ42MVJU | RZQ42TAVJUA |
| Wall mounted type | FAQ18TAVJU | RZQ18TAVJU |
| | FAQ24TAVJU | RZQ24TAVJU |
| | FAQ18TAVJU | RZQ18TAVJUA |
| | FAQ24TAVJU | RZQ24TAVJUA |
| | FAQ18TAVJU | RZQ18TBVJUA |
| | FAQ24TAVJU | RZQ24TBVJUA |
| | FAQ18TAVJU | RZQ18TBVJUB |
| | FAQ24TAVJU | RZQ24TBVJUB |

Indoor unit: 1 phase, 208/230 V, 60 Hz
Outdoor unit: 1 phase, 208/230 V, 60 Hz

| Indoor unit | Outdoor unit | Power supply |
|----------------------------------|--------------|--------------|
| HSP ceiling mounted duct type | FBQ18PVJU | RZQ18TAVJU |
| | FBQ24PVJU | RZQ24TAVJU |
| | FBQ30PVJU | RZQ30TAVJU |
| | FBQ36PVJU | RZQ36TAVJU |
| | FBQ42PVJU | RZQ42TAVJU |
| | FBQ48PVJU | RZQ48TAVJU |
| | FBQ18PVJUA | RZQ18TAVJUA |
| | FBQ24PVJUA | RZQ24TAVJUA |
| | FBQ30PVJUA | RZQ30TAVJUA |
| | FBQ36PVJUA | RZQ36TAVJUA |
| | FBQ42PVJUA | RZQ42TAVJUA |
| | FBQ48PVJUA | RZQ48TAVJUA |
| | FBQ18TBVJU | RZQ18TBVJU |
| | FBQ24TBVJU | RZQ24TBVJU |
| | FBQ30TBVJU | RZQ30TBVJU |
| | FBQ36TBVJU | RZQ36TBVJU |
| | FBQ42TBVJU | RZQ42TBVJU |
| | FBQ48TBVJU | RZQ48TBVJU |
| | FBQ18TBVJUB | RZQ18TBVJUB |
| | FBQ24TBVJUB | RZQ24TBVJUB |
| | FBQ30TBVJUB | RZQ30TBVJUB |
| | FBQ36TBVJUB | RZQ36TBVJUB |
| | FBQ42TBVJUB | RZQ42TBVJUB |
| | FBQ48TBVJUB | RZQ48TBVJUB |
| Multi position air handling unit | FTQ18TAVJUD | RZQ18TAVJU |
| | FTQ24TAVJUD | RZQ24TAVJU |
| | FTQ30TAVJUD | RZQ30TAVJU |
| | FTQ36TAVJUD | RZQ36TAVJU |
| | FTQ42TAVJUD | RZQ42TAVJU |
| | FTQ48TAVJUD | RZQ48TAVJU |
| | FTQ18TAVJUA | RZQ18TAVJUA |
| | FTQ24TAVJUA | RZQ24TAVJUA |
| | FTQ30TAVJUA | RZQ30TAVJUA |
| | FTQ36TAVJUA | RZQ36TAVJUA |
| | FTQ42TAVJUA | RZQ42TAVJUA |
| | FTQ48TAVJUA | RZQ48TAVJUA |
| | FTQ18TBVJUA | RZQ18TBVJUA |
| | FTQ24TBVJUA | RZQ24TBVJUA |
| | FTQ30TBVJUA | RZQ30TBVJUA |
| | FTQ36TBVJUA | RZQ36TBVJUA |
| | FTQ42TBVJUA | RZQ42TBVJUA |
| | FTQ48TBVJUA | RZQ48TBVJUA |
| | FTQ18TBVJUB | RZQ18TBVJUB |
| | FTQ24TBVJUB | RZQ24TBVJUB |
| | FTQ30TBVJUB | RZQ30TBVJUB |
| | FTQ36TBVJUB | RZQ36TBVJUB |
| | FTQ42TBVJUB | RZQ42TBVJUB |
| | FTQ48TBVJUB | RZQ48TBVJUB |

Indoor unit: 1 phase, 208/230 V, 60 Hz
 Outdoor unit: 1 phase, 208/230 V, 60 Hz

| Indoor unit | | Outdoor unit | Power supply |
|----------------------------------|-------------|--------------|---|
| Multi position air handling unit | FTQ18TAVJUA | RZQ18TAVJU | Indoor unit: 1 phase, 208/230 V, 60 Hz Outdoor unit: 1 phase, 208/230 V, 60 Hz |
| | FTQ24TAVJUA | RZQ24TAVJU | |
| | FTQ30TAVJUA | RZQ30TAVJU | |
| | FTQ36TAVJUA | RZQ36TAVJU | |
| | FTQ42TAVJUA | RZQ42TAVJU | |
| | FTQ48TAVJUA | RZQ48TAVJU | |
| | FTQ18TAVJUA | RZQ18TAVJUA | |
| | FTQ24TAVJUA | RZQ24TAVJUA | |
| | FTQ30TAVJUA | RZQ30TAVJUA | |
| | FTQ36TAVJUA | RZQ36TAVJUA | |
| | FTQ42TAVJUA | RZQ42TAVJUA | |
| | FTQ48TAVJUA | RZQ48TAVJUA | |
| | FTQ18TAVJUA | RZQ18TBVJUA | |
| | FTQ24TAVJUA | RZQ24TBVJUA | |
| | FTQ30TAVJUA | RZQ30TBVJUA | |
| | FTQ36TAVJUA | RZQ36TBVJUA | |
| | FTQ42TAVJUA | RZQ42TBVJUA | |
| | FTQ48TAVJUA | RZQ48TBVJUA | |
| | FTQ18TBVJUA | RZQ18TBVJUB | |
| | FTQ24TBVJUA | RZQ24TBVJUB | |
| FTQ30TBVJUA | RZQ30TBVJUB | | |
| FTQ36TBVJUA | RZQ36TBVJUB | | |
| FTQ42TBVJUA | RZQ42TBVJUB | | |
| FTQ48TBVJUA | RZQ48TBVJUB | | |

**Note(s)**

1. Power supply intake: outdoor unit
 2. VJ: 1 phase, 208/230 V, 60 Hz
- U (VJU): Standard symbol
A, B: Minor revision

2. External Appearance

2.1 Indoor Unit

Ceiling Mounted Cassette Type (Round Flow with Sensing Panel)

FCQ18TAVJU
FCQ24TAVJU
FCQ30TAVJU
FCQ36TAVJU
FCQ42TAVJU
FCQ48TAVJU



Shown with BYCQ125B-W1

FCQ18AAVJU
FCQ24AAVJU
FCQ30AAVJU
FCQ36AAVJU
FCQ42AAVJU
FCQ48AAVJU



Shown with BYCQ54EEFU

Ceiling Suspended Type

FHQ18PVJU
FHQ24PVJU
FHQ30PVJU
FHQ36MVJU
FHQ42MVJU



Wall Mounted Type

FAQ18TAVJU
FAQ24TAVJU



HSP Ceiling Mounted Duct Type

FBQ18PVJU
FBQ24PVJU
FBQ30PVJU
FBQ36PVJU
FBQ42PVJU
FBQ48PVJU



FBQ18TBVJU
FBQ24TBVJU
FBQ30TBVJU
FBQ36TBVJU
FBQ42TBVJU
FBQ48TBVJU

**Multi Position Air Handling Unit**

FTQ18TAVJUD **FTQ18TAVJUA**
FTQ24TAVJUD **FTQ24TAVJUA**
FTQ30TAVJUD **FTQ30TAVJUA**
FTQ36TAVJUD **FTQ36TAVJUA**
FTQ42TAVJUD **FTQ42TAVJUA**
FTQ48TAVJUD **FTQ48TAVJUA**

FTQ18TBVJUD **FTQ18TBVJUA**
FTQ24TBVJUD **FTQ24TBVJUA**
FTQ30TBVJUD **FTQ30TBVJUA**
FTQ36TBVJUD **FTQ36TBVJUA**
FTQ42TBVJUD **FTQ42TBVJUA**
FTQ48TBVJUD **FTQ48TBVJUA**



2.2 Outdoor Unit

RZR18TAVJU RZR18TAVJUA
RZR24TAVJU RZR24TAVJUA

RZQ18TAVJU RZQ18TAVJUA
RZQ24TAVJU RZQ24TAVJUA



RZR18TBVJUA
RZR24TBVJUA

RZQ18TBVJUA
RZQ24TBVJUA



RZR18TBVJUB
RZR24TBVJUB

RZQ18TBVJUB
RZQ24TBVJUB



RZR30TAVJU RZR30TAVJUA
 RZR36TAVJU RZR36TAVJUA
 RZR42TAVJU RZR42TAVJUA
 RZR48TAVJU RZR48TAVJUA

RZQ30TAVJU RZQ30TAVJUA
 RZQ36TAVJU RZQ36TAVJUA
 RZQ42TAVJU RZQ42TAVJUA
 RZQ48TAVJU RZQ48TAVJUA



RZR30TBVJUA
 RZR36TBVJUA
 RZR42TBVJUA
 RZR48TBVJUA

RZQ30TBVJUA
 RZQ36TBVJUA
 RZQ42TBVJUA
 RZQ48TBVJUA



RZR30TBVJUB
 RZR36TBVJUB
 RZR42TBVJUB
 RZR48TBVJUB

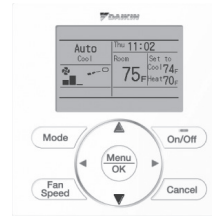
RZQ30TBVJUB
 RZQ36TBVJUB
 RZQ42TBVJUB
 RZQ48TBVJUB



2.3 Remote Controller

Wired remote controller

Navigation: BRC1E73



Madoka: BRC1H71W



Wireless remote controller

BRC7E83 (FHQ)

BRC7E818 (FAQ)

BRC4C82 (FBQ-P (*1), FTQ)

BRC082A43 (FBQ-P (*1), FBQ-TB)



- *1. For FBQ-P series, the fan step control is different according to the wireless remote controller used.
 BRC4C82 (Fan: 2 steps)
 BRC082A43 (Fan: 3 steps)

3. Specifications

3.1 Cooling Only

3.1.1 Ceiling Mounted Cassette Type (Round Flow with Sensing Panel)

| Model name | Indoor unit | | FCQ18TAVJU | | FCQ24TAVJU | |
|---|------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | RZR18TAVJU | | RZR24TAVJU | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | | 24,000 (7.0) | |
| SEER (Rated) | | | 18.6 | | 18.5 | |
| EER (Rated) | Btu/h·W | | 13.0 | | 12.0 | |
| Indoor unit | | | FCQ18TAVJU | | FCQ24TAVJU | |
| Casing color | | | Galvanized steel plate | | Galvanized steel plate | |
| Dimensions: (H×W×D) | | in (mm) | 10-1/16 × 33-1/16 × 33-1/16 (256 × 840 × 840) | | 10-1/16 × 33-1/16 × 33-1/16 (256 × 840 × 840) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 3 × (12 + 15 × 2) × (20 + 21 × 2) | | 3 × (12 + 15 × 2) × (20 + 21 × 2) | |
| | Face area | ft ² (m ²) | 4.59 (0.427) | | 4.59 (0.427) | |
| Fan | Model | | QTS48C15M | | QTS48C15M | |
| | Type | | Turbo fan | | Turbo fan | |
| | Motor output | W | 48 | | 48 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 742/618/477 (21.0/17.5/13.5) | | 777/618/477 (22.0/17.5/13.5) | |
| Sound pressure level (H/M/L) | | dB(A) | 35.5/32.0/28.0 | | 36.0/32.0/28.0 | |
| Air filter | | | — | | — | |
| Weight | | lbs (kg) | 63 (28.5) | | 63 (28.5) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | |
| | Wireless | | — | | — | |
| Decoration panels (option) | Model | | BYCQ125B-W1 / BYCQ125BGW1 | | BYCQ125B-W1 / BYCQ125BGW1 | |
| | Color | | Fresh white | | Fresh white | |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | |
| | Air filter | | Resin net (with mold resistance) | | Resin net (with mold resistance) | |
| | Weight | lbs (kg) | 12.2 (5.5) / 22.1 (10.0) | | 12.2 (5.5) / 22.1 (10.0) | |
| Outdoor unit | | | RZR18TAVJU | | RZR24TAVJU | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 44 × 19 | | 2 × 44 × 19 | |
| | Face area | ft ² (m ²) | 9.5 (0.88) | | 9.5 (0.88) | |
| Compressor | Model | | 2YC63ABXDD | | 2YC63ABXDD | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 1.9 | | 1.9 | |
| Fan | Model | | P51J11F | | P51J11F | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | | 2,682 (76) | |
| Weight | | lbs (kg) | 172 (78) | | 172 (78) | |
| Sound pressure level | | dB(A) | 58 | | 58 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | | % | 14-100 | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.08 | | 1.08 | |
| Drawing No. | Specification | | C: 4D115509 | | C: 4D115509 | |
| | Sound (indoor) | | C: 4D087483B | | C: 4D087474B | |
| | Sound (outdoor) | | C: 4D101947D | | C: 4D101947D | |
| Notes: | | | | | | |
| ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m). | | | | | | |
| ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat. | | | | | | |

| Model name | Indoor unit | | FCQ30TAVJU | FCQ36TAVJU |
|---|------------------------|-----------------------------------|---|---|
| | Outdoor unit | | RZR30TAVJU | RZR36TAVJU |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 30,000 (8.8) | 36,000 (10.6) |
| SEER (Rated) | | | 17.2 | 17.6 |
| EER (Rated) | Btu/h-W | | 9.3 | 11.4 |
| Indoor unit | | | FCQ30TAVJU | FCQ36TAVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | in (mm) | | 11-23/32 × 33-1/16 × 33-1/16 (298 × 840 × 840) | 11-23/32 × 33-1/16 × 33-1/16 (298 × 840 × 840) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 3 × 18 × (20 + 21 × 2) | 3 × 18 × (20 + 21 × 2) |
| | Face area | ft ² (m ²) | 5.92 (0.550) | 5.92 (0.550) |
| Fan | Model | | QTS48C15M | QTS48C15M |
| | Type | | Turbo fan | Turbo fan |
| | Motor output | W | 106 | 106 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,112/918/671 (31.5/26.0/19.0) | 1,165/918/671 (33.0/26.0/19.0) |
| Sound pressure level (H/M/L) | dB(A) | 43.5/38.0/32.0 | 44.0/38.0/32.0 | |
| Air filter | | | — | — |
| Weight | lbs (kg) | | 70 (31.5) | 70 (31.5) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | — | — |
| Decoration panels (option) | Model | | BYCQ125B-W1 / BYCQ125BGW1 | BYCQ125B-W1 / BYCQ125BGW1 |
| | Color | | Fresh white | Fresh white |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) |
| | Air filter | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| | Weight | lbs (kg) | 12.2 (5.5) / 22.1 (10.0) | 12.2 (5.5) / 22.1 (10.0) |
| Outdoor unit | | | RZR30TAVJU | RZR36TAVJU |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | in (mm) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90GXD#D | 2YC90GXD#D |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | lbs (kg) | | 225 (102) | 225 (102) |
| Sound pressure level | dB(A) | | 57 | 57 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | % | | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D115511 | C: 4D115511 |
| | Sound (indoor) | | C: 4D087479B | C: 4D087475B |
| | Sound (outdoor) | | C: 4D101949D | C: 4D101949D |
| Notes: | | | | |
| ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m). | | | | |
| ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat. | | | | |

| Model name | Indoor unit | | FCQ42TAVJU | | FCQ48TAVJU | |
|---|------------------------|-----------------------------------|---|------------------|---|--|
| | Outdoor unit | | RZR42TAVJU | | RZR48TAVJU | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | | Btu/h (kW) | 42,000 (12.3) | | 48,000 (14.1) | |
| SEER (Rated) | | | 17.0 | | 17.0 | |
| EER (Rated) | | Btu/h-W | 10.3 | | 9.0 | |
| Indoor unit | | | FCQ42TAVJU | | FCQ48TAVJU | |
| Casing color | | | Galvanized steel plate | | Galvanized steel plate | |
| Dimensions: (H×W×D) | | in (mm) | 11-23/32 × 33-1/16 × 33-1/16 (298 × 840 × 840) | | 11-23/32 × 33-1/16 × 33-1/16 (298 × 840 × 840) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 3 × 18 × (20 + 21 × 2) | | 3 × 18 × (20 + 21 × 2) | |
| | Face area | ft ² (m ²) | 5.92 (0.550) | | 5.92 (0.550) | |
| Fan | Model | | QTS48C15M | | QTS48C15M | |
| | Type | | Turbo fan | | Turbo fan | |
| | Motor output | W | 106 | | 106 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,218/971/742 (34.5/27.5/21.0) | | 1,218/971/742 (34.5/27.5/21.0) | |
| Sound pressure level (H/M/L) | | dB(A) | 45.0/40.0/35.0 | | 45.0/40.0/35.0 | |
| Air filter | | | — | | — | |
| Weight | | lbs (kg) | 70 (31.5) | | 70 (31.5) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | |
| Remote controller (option) | Wired | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | | |
| | Wireless | — | | — | | |
| Decoration panels (option) | Model | | BYCQ125B-W1 / BYCQ125BGW1 | | BYCQ125B-W1 / BYCQ125BGW1 | |
| | Color | | Fresh white | | Fresh white | |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | |
| | Air filter | | Resin net (with mold resistance) | | Resin net (with mold resistance) | |
| | Weight | lbs (kg) | 12.2 (5.5) / 22.1 (10.0) | | 12.2 (5.5) / 22.1 (10.0) | |
| Outdoor unit | | | RZR42TAVJU | | RZR48TAVJU | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 60 × 19 | | 2 × 60 × 19 | |
| | Face area | ft ² (m ²) | 12.2 (1.134) | | 12.2 (1.134) | |
| Compressor | Model | | 2YC90GXD#D | | 2YC90GXD#D | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 3.5 | | 3.5 | |
| Fan | Model | | P47N | | P47N | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | | 3,741 (106) | |
| Weight | | lbs (kg) | 225 (102) | | 225 (102) | |
| Sound pressure level | | dB(A) | 57 | | 57 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | | % | 14-100 | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.52 | | 1.52 | |
| Drawing No. | Specification | | C: 4D115511 | | C: 4D115511 | |
| | Sound (indoor) | | C: 4D087476B | | C: 4D087476B | |
| | Sound (outdoor) | | C: 4D101949D | | C: 4D101949D | |
| Notes: | | | | | | |
| ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m). | | | | | | |
| ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat. | | | | | | |

| Model name | | Indoor unit | FCQ18TAVJU | FCQ24TAVJU |
|---|------------------------|-----------------------------------|---|---|
| | | Outdoor unit | RZR18TAVJUA | RZR24TAVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | 24,000 (7.0) |
| SEER (Rated) | | | 18.6 | 18.5 |
| EER (Rated) | Btu/h-W | | 13.0 | 12.0 |
| Indoor unit | | | FCQ18TAVJU | FCQ24TAVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 10-1/16 × 33-1/16 × 33-1/16 (256 × 840 × 840) | 10-1/16 × 33-1/16 × 33-1/16 (256 × 840 × 840) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 3 × (12 + 15 × 2) × (20 + 21 × 2) | 3 × (12 + 15 × 2) × (20 + 21 × 2) |
| | Face area | ft ² (m ²) | 4.59 (0.427) | 4.59 (0.427) |
| Fan | Model | | QTS48C15M | QTS48C15M |
| | Type | | Turbo fan | Turbo fan |
| | Motor output | W | 48 | 48 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 742/618/477 (21.0/17.5/13.5) | 777/618/477 (22.0/17.5/13.5) |
| Sound pressure level (H/M/L) | dB(A) | | 35.5/32.0/28.0 | 36.0/32.0/28.0 |
| Air filter | | | — | — |
| Weight | | lbs (kg) | 63 (28.5) | 63 (28.5) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | — | — |
| Decoration panels (option) | Model | | BYCQ125B-W1 / BYCQ125BGW1 | BYCQ125B-W1 / BYCQ125BGW1 |
| | Color | | Fresh white | Fresh white |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) |
| | Air filter | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| | Weight | lbs (kg) | 12.2 (5.5) / 22.1 (10.0) | 12.2 (5.5) / 22.1 (10.0) |
| Outdoor unit | | | RZR18TAVJUA | RZR24TAVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 39 × 37 × 12-5/8 (990 × 940 × 320) | 39 × 37 × 12-5/8 (990 × 940 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 44 × 19 | 2 × 44 × 19 |
| | Face area | ft ² (m ²) | 9.5 (0.88) | 9.5 (0.88) |
| Compressor | Model | | 2YC63TXD#A | 2YC63TXD#A |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 1.9 | 1.9 |
| Fan | Model | | P51J11F | P51J11F |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 200 | 200 |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | 2,682 (76) |
| Weight | | lbs (kg) | 172 (78) | 172 (78) |
| Sound pressure level | | dB(A) | 58 | 58 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 164 (50) | 164 (50) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 6.4 (2.9) | 6.4 (2.9) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.08 | 1.08 |
| Drawing No. | Specification | | C: 4D126347 | C: 4D126347 |
| | Sound (indoor) | | C: 4D087483B | C: 4D087474B |
| | Sound (outdoor) | | C: 4D101947D | C: 4D101947D |
| Notes: | | | | |
| ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m). | | | | |
| ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat. | | | | |

| Model name | | Indoor unit | FCQ30TAVJU | FCQ36TAVJU |
|---|------------------------|---|---|--|
| | | Outdoor unit | RZR30TAVJUA | RZR36TAVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 30,000 (8.8) | 36,000 (10.6) |
| SEER (Rated) | | | 17.2 | 17.6 |
| EER (Rated) | Btu/h-W | | 9.3 | 11.4 |
| Indoor unit | | | FCQ30TAVJU | FCQ36TAVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 11-23/32 × 33-1/16 × 33-1/16 (298 × 840 × 840) | 11-23/32 × 33-1/16 × 33-1/16 (298 × 840 × 840) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 3 × 18 × (20 + 21 × 2) | 3 × 18 × (20 + 21 × 2) |
| | Face area | ft ² (m ²) | 5.92 (0.550) | 5.92 (0.550) |
| Fan | Model | | QTS48C15M | QTS48C15M |
| | Type | | Turbo fan | Turbo fan |
| | Motor output | W | 106 | 106 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,112/918/671 (31.5/26.0/19.0) | 1,165/918/671 (33.0/26.0/19.0) |
| Sound pressure level (H/M/L) | dB(A) | | 43.5/38.0/32.0 | 44.0/38.0/32.0 |
| Air filter | | | — | — |
| Weight | lbs (kg) | | 70 (31.5) | 70 (31.5) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | — | — |
| Decoration panels (option) | Model | | BYCQ125B-W1 / BYCQ125BGW1 | BYCQ125B-W1 / BYCQ125BGW1 |
| | Color | | Fresh white | Fresh white |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) |
| | Air filter | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| | Weight | lbs (kg) | | 12.2 (5.5) / 22.1 (10.0) |
| Outdoor unit | | | RZR30TAVJUA | RZR36TAVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90FXD#A | 2YC90FXD#A |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | lbs (kg) | | 225 (102) | 225 (102) |
| Sound pressure level | dB(A) | | 57 | 57 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | % | | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D126348 | C: 4D126348 |
| | Sound (indoor) | | C: 4D087479B | C: 4D087475B |
| | Sound (outdoor) | | C: 4D101949D | C: 4D101949D |
| Notes: | | | | |
| ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m). | | | | |
| ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat. | | | | |

| Model name | | Indoor unit | FCQ42TAVJU | FCQ48TAVJU |
|------------------------------|------------------------|-----------------------------------|---|---|
| | | Outdoor unit | RZR42TAVJUA | RZR48TAVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 42,000 (12.3) | 48,000 (14.1) |
| SEER (Rated) | | | 17.0 | 17.0 |
| EER (Rated) | Btu/h-W | | 10.3 | 9.0 |
| Indoor unit | | | FCQ42TAVJU | FCQ48TAVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 11-23/32 × 33-1/16 × 33-1/16 (298 × 840 × 840) | 11-23/32 × 33-1/16 × 33-1/16 (298 × 840 × 840) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 3 × 18 × (20 + 21 × 2) | 3 × 18 × (20 + 21 × 2) |
| | Face area | ft ² (m ²) | 5.92 (0.550) | 5.92 (0.550) |
| Fan | Model | | QTS48C15M | QTS48C15M |
| | Type | | Turbo fan | Turbo fan |
| | Motor output | W | 106 | 106 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,218/971/742 (34.5/27.5/21.0) | 1,218/971/742 (34.5/27.5/21.0) |
| Sound pressure level (H/M/L) | | dB(A) | 45.0/40.0/35.0 | 45.0/40.0/35.0 |
| Air filter | | | — | — |
| Weight | | lbs (kg) | 70 (31.5) | 70 (31.5) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | — | — |
| Decoration panels (option) | Model | | BYCQ125B-W1 / BYCQ125BGW1 | BYCQ125B-W1 / BYCQ125BGW1 |
| | Color | | Fresh white | Fresh white |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) |
| | Air filter | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| | Weight | lbs (kg) | 12.2 (5.5) / 22.1 (10.0) | 12.2 (5.5) / 22.1 (10.0) |
| Outdoor unit | | | RZR42TAVJUA | RZR48TAVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90FXD#A | 2YC90FXD#A |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level | | dB(A) | 57 | 57 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D126348 | C: 4D126348 |
| | Sound (indoor) | | C: 4D087476B | C: 4D087476B |
| | Sound (outdoor) | | C: 4D101949D | C: 4D101949D |

Notes:

★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m).
 ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.

| Model name | | Indoor unit | | FCQ18AAVJU | | FCQ24AAVJU | |
|--|------------------------|---------------------------|-------|--|--|--|--|
| | | Outdoor unit | | RZR18TBVJUA | | RZR24TBVJUA | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | | Btu/h (kW) | | 18,000 (5.3) | | 24,000 (7.0) | |
| Indoor unit | | | | FCQ18AAVJU | | FCQ24AAVJU | |
| Casing color | | | | Galvanized steel plate | | Galvanized steel plate | |
| Dimensions: (H×W×D) | | in (mm) | | 9-11/16 × 33-1/16 × 33-1/16 (246 × 840 × 840) | | 9-11/16 × 33-1/16 × 33-1/16 (246 × 840 × 840) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Fan | Type | | | Turbo fan | | Turbo fan | |
| | Motor output | W | | 53 | | 53 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | | 742/618/477 (21.0/17.5/13.5) | | 777/618/477 (22.0/17.5/13.5) | |
| Sound pressure level (H/M/L) | | dB(A) | | 38.0/32.0/28.0 | | 38.0/32.0/28.0 | |
| Air filter | | | | — | | — | |
| Weight | | lbs (kg) | | 51 (23) | | 51 (23) | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | |
| Remote controller (accessory) | Wired | | | BRC1E73, BRC1H71W | | BRC1E73, BRC1H71W | |
| | Wireless | | | — | | — | |
| Decoration panels (accessory) | Model | | | BYCQ54EEFU / BYCQ54EEGFU | | BYCQ54EEFU / BYCQ54EEGFU | |
| | Color | | | Fresh white | | Fresh white | |
| | Dimensions: (H×W×D) | in (mm) | | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | |
| | Air filter | | | Resin net (with mold resistance) | | Resin net (with mold resistance) | |
| | Weight | lbs (kg) | | 12 (5.5) / 22 (10.0) | | 12 (5.5) / 22 (10.0) | |
| Outdoor unit | | | | RZR18TBVJUA | | RZR24TBVJUA | |
| Casing color | | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Compressor | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | | 1.9 | | 1.9 | |
| Fan | Type | | | Propeller fan | | Propeller fan | |
| | Motor output | W | | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | | 2,682 (76) | | 2,682 (76) | |
| Weight | | lbs (kg) | | 172 (78) | | 172 (78) | |
| Sound pressure level | | | dB(A) | 58 | | 58 | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | |
| Capacity step | | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | | R-410A | | R-410A | |
| | Charge | lbs (kg) | | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | | 1.08 | | 1.08 | |
| Drawing No. | Specification | | | 4D143003B | | 4D143003B | |
| | Sound (indoor) | | | 4D140998 | | 4D140998 | |
| | Sound (outdoor) | | | 4D101947D | | 4D101947D | |
| Notes: | | | | | | | |
| ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m). | | | | | | | |
| ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat. | | | | | | | |

| Model name | | Indoor unit | | FCQ30AAVJU | | FCQ36AAVJU | |
|--|------------------------|---------------------------|--|--|--|--|--|
| | | Outdoor unit | | RZR30TBVJUA | | RZR36TBVJUA | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | | Btu/h (kW) | | 30,000 (8.8) | | 36,000 (10.6) | |
| Indoor unit | | | | FCQ30AAVJU | | FCQ36AAVJU | |
| Casing color | | | | Galvanized steel plate | | Galvanized steel plate | |
| Dimensions: (H×W×D) | | in (mm) | | 11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840) | | 11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Fan | Type | | | Turbo fan | | Turbo fan | |
| | Motor output | W | | 106 | | 106 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | | 1,059/882/671 (30.0/25.0/19.0) | | 1,253/918/671 (35.5/26.0/19.0) | |
| Sound pressure level (H/M/L) | | dB(A) | | 42.0/37.0/32.0 | | 47.0/38.0/32.0 | |
| Air filter | | | | — | | — | |
| Weight | | lbs (kg) | | 58 (26) | | 58 (26) | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | |
| Remote controller (accessory) | Wired | | | BRC1E73, BRC1H71W | | BRC1E73, BRC1H71W | |
| | Wireless | | | — | | — | |
| Decoration panels (accessory) | Model | | | BYCQ54EEFU / BYCQ54EEGFU | | BYCQ54EEFU / BYCQ54EEGFU | |
| | Color | | | Fresh white | | Fresh white | |
| | Dimensions: (H×W×D) | in (mm) | | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | |
| | Air filter | | | Resin net (with mold resistance) | | Resin net (with mold resistance) | |
| | Weight | lbs (kg) | | 12 (5.5) / 22 (10.0) | | 12 (5.5) / 22 (10.0) | |
| Outdoor unit | | | | RZR30TBVJUA | | RZR36TBVJUA | |
| Casing color | | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Compressor | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | | 3.5 | | 3.5 | |
| Fan | Type | | | Propeller fan | | Propeller fan | |
| | Motor output | W | | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | | 3,741 (106) | | 3,741 (106) | |
| Weight | | lbs (kg) | | 225 (102) | | 225 (102) | |
| Sound pressure level | | dB(A) | | 57 | | 57 | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | |
| Capacity step | | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | | R-410A | | R-410A | |
| | Charge | lbs (kg) | | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | | 1.52 | | 1.52 | |
| Drawing No. | Specification | | | 4D143004B | | 4D143004B | |
| | Sound (indoor) | | | 4D140999 | | 4D141000 | |
| | Sound (outdoor) | | | 4D101949D | | 4D101949D | |
| Notes: | | | | | | | |
| ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m). | | | | | | | |
| ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat. | | | | | | | |

| Model name | | Indoor unit | | FCQ42AAVJU | | FCQ48AAVJU | | |
|--|------------------------|---------------------------|----------|--|----------------------|--|----------------------|--|
| | | Outdoor unit | | RZR42TBVJUA | | RZR48TBVJUA | | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | | |
| ★1 ★2 Cooling capacity | | Btu/h (kW) | | 42,000 (12.3) | | 48,000 (14.1) | | |
| Indoor unit | | | | FCQ42AAVJU | | FCQ48AAVJU | | |
| Casing color | | | | Galvanized steel plate | | Galvanized steel plate | | |
| Dimensions: (H×W×D) | | in (mm) | | 11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840) | | 11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840) | | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | | |
| Fan | Type | | | Turbo fan | | Turbo fan | | |
| | Motor output | W | | 106 | | 106 | | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | | 1,253/971/741 (35.5/27.5/21.0) | | 1,253/971/741 (35.5/27.5/21.0) | | |
| Sound pressure level (H/M/L) | | dB(A) | | 47.0/40.0/35.0 | | 47.0/40.0/35.0 | | |
| Air filter | | | | | — | | — | |
| Weight | | lbs (kg) | | 58 (26) | | 58 (26) | | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | | |
| | Drain Pipe | in (mm) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | | |
| Remote controller (accessory) | Wired | | | BRC1E73, BRC1H71W | | BRC1E73, BRC1H71W | | |
| | Wireless | | | — | | — | | |
| Decoration panels (accessory) | Model | | | BYCQ54EEFU / BYCQ54EEGFU | | BYCQ54EEFU / BYCQ54EEGFU | | |
| | Color | | | Fresh white | | Fresh white | | |
| | Dimensions: (H×W×D) | in (mm) | | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | | |
| | Air filter | | | Resin net (with mold resistance) | | Resin net (with mold resistance) | | |
| | Weight | | lbs (kg) | | 12 (5.5) / 22 (10.0) | | 12 (5.5) / 22 (10.0) | |
| Outdoor unit | | | | RZR42TBVJUA | | RZR48TBVJUA | | |
| Casing color | | | | Ivory white | | Ivory white | | |
| Dimensions: (H×W×D) | | in (mm) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | | |
| Compressor | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | | |
| | Motor output | kW | | 3.5 | | 3.5 | | |
| Fan | Type | | | Propeller fan | | Propeller fan | | |
| | Motor output | W | | 70 × 2 | | 70 × 2 | | |
| | Airflow rate | cfm (m ³ /min) | | 3,741 (106) | | 3,741 (106) | | |
| Weight | | lbs (kg) | | 225 (102) | | 225 (102) | | |
| Sound pressure level | | dB(A) | | 57 | | 57 | | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | | |
| | Drain Pipe | in (mm) | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | | |
| Capacity step | | % | | 14-100 | | 14-100 | | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | | 25 (7.6) | | |
| | Max. length | ft (m) | | 230 (70) | | 230 (70) | | |
| | Max. height difference | ft (m) | | 98 (30) | | 98 (30) | | |
| Refrigerant | Type | | | R-410A | | R-410A | | |
| | Charge | lbs (kg) | | 7.9 (3.6) | | 7.9 (3.6) | | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | | |
| | Charge | L | | 1.52 | | 1.52 | | |
| Drawing No. | Specification | | | 4D143004B | | 4D143004B | | |
| | Sound (indoor) | | | 4D141001 | | 4D141001 | | |
| | Sound (outdoor) | | | 4D101949D | | 4D101949D | | |
| Notes: | | | | | | | | |
| ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m). | | | | | | | | |
| ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat. | | | | | | | | |

| Model name | | Indoor unit | | FCQ18AAVJU | | FCQ24AAVJU | |
|--|------------------------|--------------|-------|--|--|--|--|
| | | Outdoor unit | | RZR18TBVJUB | | RZR24TBVJUB | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | | Btu/h (kW) | | 18,000 (5.3) | | 24,000 (7.0) | |
| Indoor unit | | | | FCQ18AAVJU | | FCQ24AAVJU | |
| Casing color | | | | Galvanized steel plate | | Galvanized steel plate | |
| Dimensions: (H×W×D) | | in (mm) | | 9-11/16 × 33-1/16 × 33-1/16 (246 × 840 × 840) | | 9-11/16 × 33-1/16 × 33-1/16 (246 × 840 × 840) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Fan | Type | | | Turbo fan | | Turbo fan | |
| | Motor output | W | | 53 | | 53 | |
| | Airflow rate (H/M/L) | cfm (m³/min) | | 742/618/477 (21.0/17.5/13.5) | | 777/618/477 (22.0/17.5/13.5) | |
| Sound pressure level (H/M/L) | | dB(A) | | 38.0/32.0/28.0 | | 38.0/32.0/28.0 | |
| Air filter | | | | — | | — | |
| Weight | | lbs (kg) | | 51 (23) | | 51 (23) | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | |
| Remote controller (accessory) | Wired | | | BRC1E73, BRC1H71W | | BRC1E73, BRC1H71W | |
| | Wireless | | | — | | — | |
| Decoration panels (accessory) | Model | | | BYCQ54EEFU / BYCQ54EEGFU | | BYCQ54EEFU / BYCQ54EEGFU | |
| | Color | | | Fresh white | | Fresh white | |
| | Dimensions: (H×W×D) | in (mm) | | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | |
| | Air filter | | | Resin net (with mold resistance) | | Resin net (with mold resistance) | |
| | Weight | lbs (kg) | | 12 (5.5) / 22 (10.0) | | 12 (5.5) / 22 (10.0) | |
| Outdoor unit | | | | RZR18TBVJUB | | RZR24TBVJUB | |
| Casing color | | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Compressor | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | | 1.9 | | 1.9 | |
| Fan | Type | | | Propeller fan | | Propeller fan | |
| | Motor output | W | | 200 | | 200 | |
| | Airflow rate | cfm (m³/min) | | 2,682 (76) | | 2,682 (76) | |
| Weight | | lbs (kg) | | 172 (78) | | 172 (78) | |
| Sound pressure level | | | dB(A) | 58 | | 58 | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | |
| Capacity step | | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | | R-410A | | R-410A | |
| | Charge | lbs (kg) | | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | | 1.08 | | 1.08 | |
| Drawing No. | Specification | | | 4D148302 | | 4D148302 | |
| | Sound (indoor) | | | 4D140998 | | 4D140998 | |
| | Sound (outdoor) | | | 4D101947D | | 4D101947D | |
| Notes: | | | | | | | |
| ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m). | | | | | | | |
| ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat. | | | | | | | |

| Model name | | Indoor unit | FCQ30AAVJU | FCQ36AAVJU |
|-------------------------------|------------------------|---------------------------|--|--|
| | | Outdoor unit | RZR30TBVJUB | RZR36TBVJUB |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 30,000 (8.8) | 36,000 (10.6) |
| Indoor unit | | | FCQ30AAVJU | FCQ36AAVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840) | 11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Fan | Type | | Turbo fan | Turbo fan |
| | Motor output | W | 106 | 106 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,059/882/671 (30.0/25.0/19.0) | 1,253/918/671 (35.5/26.0/19.0) |
| Sound pressure level (H/M/L) | | dB(A) | 42.0/37.0/32.0 | 47.0/38.0/32.0 |
| Air filter | | | — | — |
| Weight | | lbs (kg) | 58 (26) | 58 (26) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (accessory) | Wired | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | — | — |
| Decoration panels (accessory) | Model | | BYCQ54EEFU / BYCQ54EEGFU | BYCQ54EEFU / BYCQ54EEGFU |
| | Color | | Fresh white | Fresh white |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) |
| | Air filter | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| | Weight | lbs (kg) | 12 (5.5) / 22 (10.0) | 12 (5.5) / 22 (10.0) |
| Outdoor unit | | | RZR30TBVJUB | RZR36TBVJUB |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Compressor | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level | | dB(A) | 57 | 57 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse |
| Capacity step | % | | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Type | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Type | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | 4D148303 | 4D148303 |
| | Sound (indoor) | | 4D140999 | 4D141000 |
| | Sound (outdoor) | | 4D101949D | 4D101949D |

Notes:

★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m).

★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.

| Model name | | Indoor unit | | FCQ42AAVJU | | FCQ48AAVJU | |
|--|------------------------|---------------------------|----------------|--|----------------|--|--|
| | | Outdoor unit | | RZR42TBVJUB | | RZR48TBVJUB | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | | Btu/h (kW) | | 42,000 (12.3) | | 48,000 (14.1) | |
| Indoor unit | | | | FCQ42AAVJU | | FCQ48AAVJU | |
| Casing color | | | | Galvanized steel plate | | Galvanized steel plate | |
| Dimensions: (H×W×D) | | in (mm) | | 11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840) | | 11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Fan | Type | | | Turbo fan | | Turbo fan | |
| | Motor output | W | | 106 | | 106 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | | 1,253/971/741 (35.5/27.5/21.0) | | 1,253/971/741 (35.5/27.5/21.0) | |
| Sound pressure level (H/M/L) | dB(A) | | 47.0/40.0/35.0 | | 47.0/40.0/35.0 | | |
| Air filter | | | | — | | — | |
| Weight | lbs (kg) | | 58 (26) | | 58 (26) | | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | |
| Remote controller (accessory) | Wired | | | BRC1E73, BRC1H71W | | BRC1E73, BRC1H71W | |
| | Wireless | | | — | | — | |
| Decoration panels (accessory) | Model | | | BYCQ54EEFU / BYCQ54EEGFU | | BYCQ54EEFU / BYCQ54EEGFU | |
| | Color | | | Fresh white | | Fresh white | |
| | Dimensions: (H×W×D) | in (mm) | | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | |
| | Air filter | | | Resin net (with mold resistance) | | Resin net (with mold resistance) | |
| | Weight | lbs (kg) | | 12 (5.5) / 22 (10.0) | | 12 (5.5) / 22 (10.0) | |
| Outdoor unit | | | | RZR42TBVJUB | | RZR48TBVJUB | |
| Casing color | | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Compressor | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | | 3.5 | | 3.5 | |
| Fan | Type | | | Propeller fan | | Propeller fan | |
| | Motor output | W | | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | | 3,741 (106) | | 3,741 (106) | |
| Weight | lbs (kg) | | 225 (102) | | 225 (102) | | |
| Sound pressure level | dB(A) | | 57 | | 57 | | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | |
| Capacity step | % | | 14-100 | | 14-100 | | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | | R-410A | | R-410A | |
| | Charge | lbs (kg) | | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | | 1.52 | | 1.52 | |
| Drawing No. | Specification | | | 4D148303 | | 4D148303 | |
| | Sound (indoor) | | | 4D141001 | | 4D141001 | |
| | Sound (outdoor) | | | 4D101949D | | 4D101949D | |
| Notes: | | | | | | | |
| ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m). | | | | | | | |
| ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat. | | | | | | | |

3.1.2 Ceiling Suspended Type

| Model name | Indoor unit | | FHQ18PVJU | FHQ24PVJU |
|----------------------------|------------------------|-----------------------------------|---|---|
| | Outdoor unit | | RZR18TAVJU | RZR24TAVJU |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | 24,000 (7.0) |
| SEER (Rated) | | | 16.3 | 16.6 |
| EER (Rated) | Btu/h-W | | 12.9 | 11.3 |
| Indoor unit | | | FHQ18PVJU | FHQ24PVJU |
| Casing color | | | White (10Y9/0.5) | White (10Y9/0.5) |
| Dimensions: (H×W×D) | in (mm) | | 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) | 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 12 × 15 + 2 × 10 × 15 | 2 × 12 × 15 + 2 × 10 × 15 |
| | Face area | ft ² (m ²) | 3.66 (0.34) + 2.95 (0.27) | 3.66 (0.34) + 2.95 (0.27) |
| Fan | Model | | — | — |
| | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 130 | 130 |
| | Airflow rate (H/L) | cfm (m ³ /min) | 790/670 (22.4/19.0) | 790/670 (22.4/19.0) |
| Air filter | | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| Weight | lbs (kg) | | 90 (19.8) | 90 (19.8) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) |
| Remote controller (option) | Wired | | BRC1E73 | BRC1E73 |
| | Wireless | | BRC7E83 | BRC7E83 |
| Outdoor unit | | | RZR18TAVJU | RZR24TAVJU |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | 39 × 37 × 12-5/8 (990 × 940 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 44 × 19 | 2 × 44 × 19 |
| | Face area | ft ² (m ²) | 9.5 (0.88) | 9.5 (0.88) |
| Compressor | Model | | 2YC63ABXDD | 2YC63ABXDD |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 1.9 | 1.9 |
| Fan | Model | | P51J11F | P51J11F |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 200 | 200 |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | 2,682 (76) |
| Weight | lbs (kg) | | 172 (78) | 172 (78) |
| Sound pressure level | dB(A) | | 58 | 58 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | % | | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 164 (50) | 164 (50) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 6.4 (2.9) | 6.4 (2.9) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.08 | 1.08 |
| Drawing No. | Specification | | C: 4D115558A | C: 4D115558A |
| | Sound (outdoor) | | C: 4D101947D | C: 4D101947D |

Notes:
★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m).
★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.

| Model name | Indoor unit | | FHQ30PVJU | FHQ36MVJU |
|---|------------------------|-----------------------------------|---|---|
| | Outdoor unit | | RZR30TAVJU | RZR36TAVJU |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 30,000 (8.8) | 36,000 (10.6) |
| SEER (Rated) | | | 16.0 | 14.0 |
| EER (Rated) | Btu/h-W | | 10.5 | 9.5 |
| Indoor unit | | | FHQ30PVJU | FHQ36MVJU |
| Casing color | | | White (10Y9/0.5) | White (10Y9/0.5) |
| Dimensions: (H×W×D) | in (mm) | | 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) | 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 12 × 15 + 2 × 10 × 15 | 2 × 12 × 15 + 2 × 10 × 15 |
| | Face area | ft ² (m ²) | 3.66 (0.34) + 2.95 (0.27) | 3.66 (0.34) + 2.95 (0.27) |
| Fan | Model | | — | — |
| | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 130 | 130 |
| | Airflow rate (H/L) | cfm (m ³ /min) | 790/670 (22.4/19.0) | 830/670 (23.5/19.0) |
| Air filter | | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| Weight | lbs (kg) | | 90 (19.8) | 90 (19.8) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) |
| Remote controller (option) | Wired | | BRC1E73 | BRC1E73 |
| | Wireless | | BRC7E83 | BRC7E83 |
| Outdoor unit | | | RZR30TAVJU | RZR36TAVJU |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | in (mm) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90GXD#D | 2YC90GXD#D |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | lbs (kg) | | 225 (102) | 225 (102) |
| Sound pressure level | dB(A) | | 57 | 57 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | % | | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D115560A | C: 4D115560A |
| | Sound (outdoor) | | C: 4D101949D | C: 4D101949D |
| Notes: | | | | |
| ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m). | | | | |
| ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat. | | | | |

| Model name | | Indoor unit | | FHQ42MVJU | |
|---|------------------------|---|---|------------|--|
| | | Outdoor unit | | RZR42TAVJU | |
| Power supply | | 1 phase, 208/230 V, 60 Hz | | | |
| ★1 ★2 Cooling capacity | Btu/h (kW) | 40,500 (11.9) | | | |
| SEER (Rated) | | 14.0 | | | |
| EER (Rated) | Btu/h-W | 8.8 | | | |
| Indoor unit | | FHQ42MVJU | | | |
| Casing color | | White (10Y9/0.5) | | | |
| Dimensions: (H×W×D) | | in (mm) 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) | | | |
| Coil | Type | Cross fin coil | | | |
| | Rows×Stages×FPI | 2 × 12 × 15 + 2 × 10 × 15 | | | |
| | Face area | ft ² (m ²) | 3.66 (0.34) + 2.95 (0.27) | | |
| Fan | Model | — | | | |
| | Type | Sirocco fan | | | |
| | Motor output | W | 130 | | |
| | Airflow rate (H/L) | cfm (m ³ /min) | 850/700 (24.1/19.8) | | |
| Air filter | | Resin net (with mold resistance) | | | |
| Weight | | lbs (kg) | 90 (19.8) | | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | |
| | Drain Pipe | in (mm) | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) | | |
| Remote controller (option) | Wired | BRC1E73 | | | |
| | Wireless | BRC7E83 | | | |
| Outdoor unit | | RZR42TAVJU | | | |
| Casing color | | Ivory white | | | |
| Dimensions: (H×W×D) | | in (mm) 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | | |
| Coil | Type | Cross fin coil | | | |
| | Rows×Stages×FPI | 2 × 60 × 19 | | | |
| | Face area | ft ² (m ²) | 12.2 (1.134) | | |
| Compressor | Model | 2YC90GXD#D | | | |
| | Type | Hermetically sealed swing type | | | |
| | Motor output | kW | 3.5 | | |
| Fan | Model | P47N | | | |
| | Type | Propeller fan | | | |
| | Motor output | W | 70 × 2 | | |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | | |
| Weight | | lbs (kg) | 225 (102) | | |
| Sound pressure level | | dB(A) | 57 | | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | |
| Safety devices | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | | |
| Capacity Control | | % | 14-100 | | |
| Refrigerant control | | Electronic expansion valve | | | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | |
| | Max. length | ft (m) | 230 (70) | | |
| | Max. height difference | ft (m) | 98 (30) | | |
| Refrigerant | Model | R-410A | | | |
| | Charge | lbs (kg) | 7.9 (3.6) | | |
| Ref. oil | Model | DAPHNE FVC50K | | | |
| | Charge | L | 1.52 | | |
| Drawing No. | Specification | C: 4D115560A | | | |
| | Sound (outdoor) | C: 4D101949D | | | |
| Notes: | | | | | |
| ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m). | | | | | |
| ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat. | | | | | |

| Model name | Indoor unit | | FHQ18PVJU | FHQ24PVJU |
|---|------------------------|-----------------------------------|---|---|
| | Outdoor unit | | RZR18TAVJUA | RZR24TAVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | 24,000 (7.0) |
| SEER (Rated) | | | 16.3 | 16.6 |
| EER (Rated) | Btu/h-W | | 12.9 | 11.3 |
| Indoor unit | | | FHQ18PVJU | FHQ24PVJU |
| Casing color | | | White (10Y9/0.5) | White (10Y9/0.5) |
| Dimensions: (H×W×D) | | | 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) | 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 12 × 15 + 2 × 10 × 15 | 2 × 12 × 15 + 2 × 10 × 15 |
| | Face area | ft ² (m ²) | 3.66 (0.34) + 2.95 (0.27) | 3.66 (0.34) + 2.95 (0.27) |
| Fan | Model | | — | — |
| | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 130 | 130 |
| | Airflow rate (H/L) | cfm (m ³ /min) | 790/670 (22.4/19.0) | 790/670 (22.4/19.0) |
| Air filter | | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| Weight | | | 90 (19.8) | 90 (19.8) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) |
| Remote controller (option) | Wired | | BRC1E73 | BRC1E73 |
| | Wireless | | BRC7E83 | BRC7E83 |
| Outdoor unit | | | RZR18TAVJUA | RZR24TAVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | | 39 × 37 × 12-5/8 (990 × 940 × 320) | 39 × 37 × 12-5/8 (990 × 940 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 44 × 19 | 2 × 44 × 19 |
| | Face area | ft ² (m ²) | 9.5 (0.88) | 9.5 (0.88) |
| Compressor | Model | | 2YC63TXD#A | 2YC63TXD#A |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 1.9 | 1.9 |
| Fan | Model | | P51J11F | P51J11F |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 200 | 200 |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | 2,682 (76) |
| Weight | | | 172 (78) | 172 (78) |
| Sound pressure level | | | 58 | 58 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 164 (50) | 164 (50) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 6.4 (2.9) | 6.4 (2.9) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.08 | 1.08 |
| Drawing No. | Specification | | C: 4D126355 | C: 4D126355 |
| | Sound (outdoor) | | C: 4D101947D | C: 4D101947D |
| Notes: | | | | |
| ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m). | | | | |
| ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat. | | | | |

| Model name | | Indoor unit | FHQ30PVJU | FHQ36MVJU |
|---|------------------------|-----------------------------------|---|---|
| | | Outdoor unit | RZR30TAVJUA | RZR36TAVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 30,000 (8.8) | 36,000 (10.6) |
| SEER (Rated) | | | 16.0 | 14.0 |
| EER (Rated) | Btu/h-W | | 10.5 | 9.5 |
| Indoor unit | | | FHQ30PVJU | FHQ36MVJU |
| Casing color | | | White (10Y9/0.5) | White (10Y9/0.5) |
| Dimensions: (H×W×D) | | in (mm) | 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) | 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 12 × 15 + 2 × 10 × 15 | 2 × 12 × 15 + 2 × 10 × 15 |
| | Face area | ft ² (m ²) | 3.66 (0.34) + 2.95 (0.27) | 3.66 (0.34) + 2.95 (0.27) |
| Fan | Model | | — | — |
| | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 130 | 130 |
| | Airflow rate (H/L) | cfm (m ³ /min) | 790/670 (22.4/19.0) | 830/670 (23.5/19.0) |
| Air filter | | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| Weight | | lbs (kg) | 90 (19.8) | 90 (19.8) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) |
| Remote controller (option) | Wired | | BRC1E73 | BRC1E73 |
| | Wireless | | BRC7E83 | BRC7E83 |
| Outdoor unit | | | RZR30TAVJUA | RZR36TAVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90FXD#A | 2YC90FXD#A |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level | | dB(A) | 57 | 57 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D126357 | C: 4D126357 |
| | Sound (outdoor) | | C: 4D101949D | C: 4D101949D |
| Notes: | | | | |
| ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m). | | | | |
| ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat. | | | | |

| Model name | | Indoor unit | FHQ42MVJU |
|---|------------------------|-----------------------------------|---|
| | | Outdoor unit | RZR42TAVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 40,500 (11.9) |
| SEER (Rated) | | | 14.0 |
| EER (Rated) | Btu/h-W | | 8.8 |
| Indoor unit | | | FHQ42MVJU |
| Casing color | | | White (10Y9/0.5) |
| Dimensions: (H×W×D) | | in (mm) | 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) |
| Coil | Type | | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 12 × 15 + 2 × 10 × 15 |
| | Face area | ft ² (m ²) | 3.66 (0.34) + 2.95 (0.27) |
| Fan | Model | | — |
| | Type | | Sirocco fan |
| | Motor output | W | 130 |
| | Airflow rate (H/L) | cfm (m ³ /min) | 850/700 (24.1/19.8) |
| Air filter | | | Resin net (with mold resistance) |
| Weight | | lbs (kg) | 90 (19.8) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) |
| Remote controller (option) | Wired | | BRC1E73 |
| | Wireless | | BRC7E83 |
| Outdoor unit | | | RZR42TAVJUA |
| Casing color | | | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) |
| Compressor | Model | | 2YC90FXD#A |
| | Type | | Hermetically sealed swing type |
| | Motor output | kW | 3.5 |
| Fan | Model | | P47N |
| | Type | | Propeller fan |
| | Motor output | W | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) |
| Sound pressure level | | dB(A) | 57 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | % | 14-100 |
| Refrigerant control | | | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) |
| Refrigerant | Model | | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K |
| | Charge | L | 1.52 |
| Drawing No. | Specification | | C: 4D126357 |
| | Sound (outdoor) | | C: 4D101949D |
| Notes: | | | |
| ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m). | | | |
| ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat. | | | |

3.1.3 Wall Mounted Type

| Model name | Indoor unit | | FAQ18TAVJU | FAQ24TAVJU |
|---|------------------------|-----------------------------------|---|---|
| | Outdoor unit | | RZR18TAVJU | RZR24TAVJU |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | 24,000 (7.0) |
| SEER (Rated) | | | 17.0 | 17.6 |
| EER (Rated) | Btu/h-W | | 11.9 | 10.2 |
| Indoor unit | | | FAQ18TAVJU | FAQ24TAVJU |
| Casing color | | | White (3.0Y8.5/0.5) | White (3.0Y8.5/0.5) |
| Dimensions: (H×W×D) | in (mm) | | 11-3/8 × 41-3/8 × 9-1/4 (290 × 1,050 × 238) | 11-3/8 × 41-3/8 × 9-1/4 (290 × 1,050 × 238) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 14 × 7 | 2 × 14 × 7 |
| | Face area | ft ² (m ²) | 1.73 (0.16) | 1.73 (0.16) |
| Fan | Model | | QCL9686M | QCL9686M |
| | Type | | Cross flow fan | Cross flow fan |
| | Motor output | W | 43 | 43 |
| | Airflow rate (H/L) | cfm (m ³ /min) | 500/400 (14/11) | 635/470 (18/13) |
| Sound pressure level (H/L) | | | 43.0/37.0 | 47.0/41.0 |
| Air filter | | | Resin net (washable) | Resin net (washable) |
| Weight | lbs (kg) | | 31 (14) | 31 (14) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP13 (External dia. 11/16 (18), internal dia. 1/2 (13)) | VP13 (External dia. 11/16 (18), internal dia. 1/2 (13)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | BRC7E818 | BRC7E818 |
| Outdoor unit | | | RZR18TAVJU | RZR24TAVJU |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | 39 × 37 × 12-5/8 (990 × 940 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 44 × 19 | 2 × 44 × 19 |
| | Face area | ft ² (m ²) | 9.5 (0.88) | 9.5 (0.88) |
| Compressor | Model | | 2YC63ABXDD | 2YC63ABXDD |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 1.9 | 1.9 |
| Fan | Model | | P51J11F | P51J11F |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 200 | 200 |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | 2,682 (76) |
| Weight | lbs (kg) | | 172 (78) | 172 (78) |
| Sound pressure level | | | 58 | 58 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | % | | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 164 (50) | 164 (50) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 6.4 (2.9) | 6.4 (2.9) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.08 | 1.08 |
| Drawing No. | Specification | | C: 4D115552A | C: 4D115552A |
| | Sound (indoor) | | C: 4D075583A | C: 4D075584A |
| | Sound (outdoor) | | C: 4D101947D | C: 4D101947D |
| Notes: | | | | |
| ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m). | | | | |
| ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat. | | | | |

| Model name | Indoor unit | | FAQ18TAVJU | | FAQ24TAVJU | |
|----------------------------|------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | RZR18TAVJUA | | RZR24TAVJUA | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | | 24,000 (7.0) | |
| SEER (Rated) | | | 17.0 | | 17.6 | |
| EER (Rated) | Btu/h-W | | 11.9 | | 10.2 | |
| Indoor unit | | | FAQ18TAVJU | | FAQ24TAVJU | |
| Casing color | | | White (3.0Y8.5/0.5) | | White (3.0Y8.5/0.5) | |
| Dimensions: (H×W×D) | in (mm) | | 11-3/8 × 41-3/8 × 9-1/4 (290 × 1,050 × 238) | | 11-3/8 × 41-3/8 × 9-1/4 (290 × 1,050 × 238) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 14 × 7 | | 2 × 14 × 7 | |
| | Face area | ft ² (m ²) | 1.73 (0.16) | | 1.73 (0.16) | |
| Fan | Model | | QCL9686M | | QCL9686M | |
| | Type | | Cross flow fan | | Cross flow fan | |
| | Motor output | W | 43 | | 43 | |
| | Airflow rate (H/L) | cfm (m ³ /min) | 500/400 (14/11) | | 635/470 (18/13) | |
| Sound pressure level (H/L) | | dB(A) | 43.0/37.0 | | 47.0/41.0 | |
| Air filter | | | Resin net (washable) | | Resin net (washable) | |
| Weight | lbs (kg) | | 31 (14) | | 31 (14) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | VP13 (External dia. 11/16 (18), internal dia. 1/2 (13)) | | VP13 (External dia. 11/16 (18), internal dia. 1/2 (13)) | |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | |
| | Wireless | | BRC7E818 | | BRC7E818 | |
| Outdoor unit | | | RZR18TAVJUA | | RZR24TAVJUA | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 44 × 19 | | 2 × 44 × 19 | |
| | Face area | ft ² (m ²) | 9.5 (0.88) | | 9.5 (0.88) | |
| Compressor | Model | | 2YC63TXD#A | | 2YC63TXD#A | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 1.9 | | 1.9 | |
| Fan | Model | | P51J11F | | P51J11F | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | | 2,682 (76) | |
| Weight | lbs (kg) | | 172 (78) | | 172 (78) | |
| Sound pressure level | | dB(A) | 58 | | 58 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.08 | | 1.08 | |
| Drawing No. | Specification | | C: 4D126349 | | C: 4D126349 | |
| | Sound (indoor) | | C: 4D075583A | | C: 4D075584A | |
| | Sound (outdoor) | | C: 4D101947D | | C: 4D101947D | |

Notes:

★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m).
 ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.

| Model name | | Indoor unit | | FAQ18TAVJU | | FAQ24TAVJU | |
|--|------------------------|---------------------------|--|--|--|--|--|
| | | Outdoor unit | | RZR18TBVJUA | | RZR24TBVJUA | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | | Btu/h (kW) | | 18,000 (5.3) | | 24,000 (7.0) | |
| Indoor unit | | | | FAQ18TAVJU | | FAQ24TAVJU | |
| Casing color | | | | White (3.0Y8.5/0.5) | | White (3.0Y8.5/0.5) | |
| Dimensions: (H×W×D) | | in (mm) | | 11-3/8 × 41-3/8 × 9-1/4 (290 × 1,050 × 238) | | 11-3/8 × 41-3/8 × 9-1/4 (290 × 1,050 × 238) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Fan | Type | | | Cross flow fan | | Cross flow fan | |
| | Motor output | W | | 43 | | 43 | |
| | Airflow rate (H/L) | cfm (m ³ /min) | | 500/400 (14/11) | | 635/470 (18/13) | |
| Sound pressure level (H/L) | | dB(A) | | 43.0/37.0 | | 47.0/41.0 | |
| Air filter | | | | Resin net (washable) | | Resin net (washable) | |
| Weight | | lbs (kg) | | 31 (14) | | 31 (14) | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | VP13 (External dia. 11/16 (18), internal dia. 1/2 (13)) | | VP13 (External dia. 11/16 (18), internal dia. 1/2 (13)) | |
| Remote controller (accessory) | Wired | | | BRC1E73, BRC1H71W | | BRC1E73, BRC1H71W | |
| | Wireless | | | BRC7E818 | | BRC7E818 | |
| Outdoor unit | | | | RZR18TBVJUA | | RZR24TBVJUA | |
| Casing color | | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Compressor | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | | 1.9 | | 1.9 | |
| Fan | Type | | | Propeller fan | | Propeller fan | |
| | Motor output | W | | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | | 2,682 (76) | | 2,682 (76) | |
| Weight | | lbs (kg) | | 172 (78) | | 172 (78) | |
| Sound pressure level | | dB(A) | | 58 | | 58 | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | |
| Capacity step | | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | | R-410A | | R-410A | |
| | Charge | lbs (kg) | | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | | 1.08 | | 1.08 | |
| Drawing No. | Specification | | | 4D143006A | | 4D143006A | |
| | Sound (indoor) | | | 4D075583A | | 4D075584A | |
| | Sound (outdoor) | | | 4D101947D | | 4D101947D | |
| Notes: | | | | | | | |
| ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m). | | | | | | | |
| ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat. | | | | | | | |

| Model name | | Indoor unit | | FAQ18TAVJU | | FAQ24TAVJU | |
|--|------------------------|--------------------|-----------|--|-----------|--|--|
| | | Outdoor unit | | RZR18TBVJUB | | RZR24TBVJUB | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | | Btu/h (kW) | | 18,000 (5.3) | | 24,000 (7.0) | |
| Indoor unit | | FAQ18TAVJU | | FAQ24TAVJU | | | |
| Casing color | | | | White (3.0Y8.5/0.5) | | White (3.0Y8.5/0.5) | |
| Dimensions: (H×W×D) | | in (mm) | | 11-3/8 × 41-3/8 × 9-1/4 (290 × 1,050 × 238) | | 11-3/8 × 41-3/8 × 9-1/4 (290 × 1,050 × 238) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Fan | Type | | | Cross flow fan | | Cross flow fan | |
| | Motor output | W | | 43 | | 43 | |
| | Airflow rate (H/L) | cfm (m³/min) | | 500/400 (14/11) | | 635/470 (18/13) | |
| Sound pressure level (H/L) | dB(A) | | 43.0/37.0 | | 47.0/41.0 | | |
| Air filter | | | | Resin net (washable) | | Resin net (washable) | |
| Weight | | lbs (kg) | | 31 (14) | | 31 (14) | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | VP13 (External dia. 11/16 (18), internal dia. 1/2 (13)) | | VP13 (External dia. 11/16 (18), internal dia. 1/2 (13)) | |
| Remote controller (accessory) | Wired | | | BRC1E73, BRC1H71W | | BRC1E73, BRC1H71W | |
| | Wireless | | | BRC7E818 | | BRC7E818 | |
| Outdoor unit | | RZR18TBVJUB | | RZR24TBVJUB | | | |
| Casing color | | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Compressor | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | | 1.9 | | 1.9 | |
| Fan | Type | | | Propeller fan | | Propeller fan | |
| | Motor output | W | | 200 | | 200 | |
| | Airflow rate | cfm (m³/min) | | 2,682 (76) | | 2,682 (76) | |
| Weight | | lbs (kg) | | 172 (78) | | 172 (78) | |
| Sound pressure level | | dB(A) | | 58 | | 58 | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | |
| Capacity step | | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | | R-410A | | R-410A | |
| | Charge | lbs (kg) | | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | | 1.08 | | 1.08 | |
| Drawing No. | Specification | | | 4D148305 | | 4D148305 | |
| | Sound (indoor) | | | 4D075583A | | 4D075584A | |
| | Sound (outdoor) | | | 4D101947D | | 4D101947D | |
| Notes: | | | | | | | |
| ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m). | | | | | | | |
| ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat. | | | | | | | |

3.1.4 HSP Ceiling Mounted Duct Type

| Model name | Indoor unit | | FBQ18PVJU | | FBQ24PVJU | |
|-------------------------------|--------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | RZR18TAVJU | | RZR24TAVJU | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | | 24,000 (7.0) | |
| SEER (Rated) | | | 16.7 | | 16.5 | |
| EER (Rated) | Btu/h·W | | 13.0 | | 12.0 | |
| Indoor unit | | | FBQ18PVJU | | FBQ24PVJU | |
| Casing color | | | Galvanized steel plate | | Galvanized steel plate | |
| Dimensions: (H×W×D) | in (mm) | | 11-13/16 × 39-3/8 × 27-9/16 (300 × 1,000 × 700) | | 11-13/16 × 39-3/8 × 27-9/16 (300 × 1,000 × 700) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 3 × 16 × 15 | | 3 × 16 × 15 | |
| | Face area | ft ² (m ²) | 2.68 (0.249) | | 2.68 (0.249) | |
| Fan | Model | | — | | — | |
| | Type | | Sirocco fan | | Sirocco fan | |
| | Motor output | W | 350 | | 350 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 635/582/529 (18.0/16.5/15.0) | | 688/618/565 (19.5/17.5/16.0) | |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50)> ★3 | | Standard 0.40 <0.80-0.20> (100 <200-50)> ★3 | |
| Sound pressure level (HH/H/L) | | dB(A) | 41.0/39.0/37.0 | | 42.0/40.0/38.0 | |
| Air filter | | | — ★4 | | — ★4 | |
| Weight | | lbs (kg) | 80 (36) | | 80 (36) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | |
| | Wireless | | BRC4C82, BRC082A43 | | BRC4C82, BRC082A43 | |
| Outdoor unit | | | RZR18TAVJU | | RZR24TAVJU | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 44 × 19 | | 2 × 44 × 19 | |
| | Face area | ft ² (m ²) | 9.5 (0.88) | | 9.5 (0.88) | |
| Compressor | Model | | 2YC63ABXDD | | 2YC63ABXDD | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 1.9 | | 1.9 | |
| Fan | Model | | P51J11F | | P51J11F | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | | 2,682 (76) | |
| Weight | | lbs (kg) | 172 (78) | | 172 (78) | |
| Sound pressure level | | dB(A) | 58 | | 58 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | | % | 14-100 | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.08 | | 1.08 | |
| Drawing No. | Specification | | C: 4D115554 | | C: 4D115554 | |
| | Sound (indoor) | | C: 4D075278 | | C: 4D075279 | |
| | Sound (outdoor) | | C: 4D101947D | | C: 4D101947D | |

Notes:
★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m).
★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.
★3 External static pressure is changeable in 14 stages within the <> range by remote controller.
★4 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | Indoor unit | | FBQ30PVJU | FBQ36PVJU |
|-------------------------------|--------------------------|-----------------------------------|---|---|
| | Outdoor unit | | RZR30TAVJU | RZR36TAVJU |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 30,000 (8.8) | 36,000 (10.6) |
| SEER (Rated) | | | 16.0 | 17.5 |
| EER (Rated) | Btu/h-W | | 10.5 | 11.1 |
| Indoor unit | | | FBQ30PVJU | FBQ36PVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | | in (mm) 11-13/16 × 39-3/8 × 27-9/16 (300 × 1,000 × 700) | 11-13/16 × 55-1/8 × 27-9/16 (300 × 1,400 × 700) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 3 × 16 × 15 | 3 × 16 × 15 |
| | Face area | ft ² (m ²) | 2.68 (0.249) | 4.12 (0.383) |
| Fan | Model | | — | — |
| | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 350 | 350 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 882/794/706 (25.0/22.0/20.0) | 1,130/953/812 (32.0/27.0/23.0) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 |
| Sound pressure level (HH/H/L) | | | dB(A) 43.0/41.0/39.0 | 43.0/41.0/39.0 |
| Air filter | | | — ★4 | — ★4 |
| Weight | | | lbs (kg) 80 (36) | 102 (46) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | BRC4C82, BRC082A43 | BRC4C82, BRC082A43 |
| Outdoor unit | | | RZR30TAVJU | RZR36TAVJU |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | | in (mm) 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90GXD#D | 2YC90GXD#D |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | | lbs (kg) 225 (102) | 225 (102) |
| Sound pressure level | | | dB(A) 57 | 57 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | | % 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D115556A | C: 4D115556A |
| | Sound (indoor) | | C: 4D075280 | C: 4D075281 |
| | Sound (outdoor) | | C: 4D101949D | C: 4D101949D |

Notes:

- ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m).
- ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.
- ★3 External static pressure is changeable in 14 stages within the < > range by remote controller.
- ★4 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | FBQ42PVJU | FBQ48PVJU |
|-------------------------------|--------------------------|-----------------------------------|---|---|
| | | Outdoor unit | RZR42TAVJU | RZR48TAVJU |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 40,500 (11.9) | 48,000 (14.1) |
| SEER (Rated) | | | 16.0 | 14.0 |
| EER (Rated) | Btu/h-W | | 10.1 | 8.6 |
| Indoor unit | | | FBQ42PVJU | FBQ48PVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 11-13/16 × 55-1/8 × 27-9/16 (300 × 1,400 × 700) | 11-13/16 × 55-1/8 × 27-9/16 (300 × 1,400 × 700) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 3 × 16 × 15 | 3 × 16 × 15 |
| | Face area | ft ² (m ²) | 4.12 (0.383) | 4.12 (0.383) |
| Fan | Model | | — | — |
| | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 350 | 350 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,400/1,165/988 (39.6/33.0/28.0) | 1,400/1,165/988 (39.6/33.0/28.0) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 |
| Sound pressure level (HH/H/L) | dB(A) | | 44.0/42.0/40.0 | 44.0/42.0/40.0 |
| Air filter | | | — ★4 | — ★4 |
| Weight | | lbs (kg) | 102 (46) | 102 (46) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | BRC4C82, BRC082A43 | BRC4C82, BRC082A43 |
| Outdoor unit | | | RZR42TAVJU | RZR48TAVJU |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90GXD#D | 2YC90GXD#D |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level | | dB(A) | 57 | 57 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D115556A | C: 4D115556A |
| | Sound (indoor) | | C: 4D075282A | C: 4D075282A |
| | Sound (outdoor) | | C: 4D101949D | C: 4D101949D |

Notes:

★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m).

★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.

★3 External static pressure is changeable in 14 stages within the < > range by remote controller.

★4 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | Indoor unit | | FBQ18PVJU | FBQ24PVJU |
|-------------------------------|--------------------------|-----------------------------------|---|---|
| | Outdoor unit | | RZR18TAVJUA | RZR24TAVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | 24,000 (7.0) |
| SEER (Rated) | | | 16.7 | 16.5 |
| EER (Rated) | Btu/h-W | | 13.0 | 12.0 |
| Indoor unit | | FBQ18PVJU | | FBQ24PVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | in (mm) | | 11-13/16 × 39-3/8 × 27-9/16 (300 × 1,000 × 700) | 11-13/16 × 39-3/8 × 27-9/16 (300 × 1,000 × 700) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 3 × 16 × 15 | 3 × 16 × 15 |
| | Face area | ft ² (m ²) | 2.68 (0.249) | 2.68 (0.249) |
| Fan | Model | | — | — |
| | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 350 | 350 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 635/582/529 (18.0/16.5/15.0) | 688/618/565 (19.5/17.5/16.0) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 |
| Sound pressure level (HH/H/L) | dB(A) | | 41.0/39.0/37.0 | 42.0/40.0/38.0 |
| Air filter | | | — ★4 | — ★4 |
| Weight | lbs (kg) | | 80 (36) | 80 (36) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | BRC4C82, BRC082A43 | BRC4C82, BRC082A43 |
| Outdoor unit | | RZR18TAVJUA | | RZR24TAVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | 39 × 37 × 12-5/8 (990 × 940 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 44 × 19 | 2 × 44 × 19 |
| | Face area | ft ² (m ²) | 9.5 (0.88) | 9.5 (0.88) |
| Compressor | Model | | 2YC63TXD#A | 2YC63TXD#A |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 1.9 | 1.9 |
| Fan | Model | | P51J11F | P51J11F |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 200 | 200 |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | 2,682 (76) |
| Weight | lbs (kg) | | 172 (78) | 172 (78) |
| Sound pressure level | dB(A) | | 58 | 58 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | % | | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 164 (50) | 164 (50) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 6.4 (2.9) | 6.4 (2.9) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.08 | 1.08 |
| Drawing No. | Specification | | C: 4D126351 | C: 4D126351 |
| | Sound (indoor) | | C: 4D075278 | C: 4D075279 |
| | Sound (outdoor) | | C: 4D101947D | C: 4D101947D |

Notes:

- ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m).
- ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.
- ★3 External static pressure is changeable in 14 stages within the < > range by remote controller.
- ★4 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | FBQ30PVJU | FBQ36PVJU |
|-------------------------------|--------------------------|-----------------------------------|---|---|
| | | Outdoor unit | RZR30TAVJUA | RZR36TAVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 30,000 (8.8) | 36,000 (10.6) |
| SEER (Rated) | | | 16.0 | 17.5 |
| EER (Rated) | Btu/h-W | | 10.5 | 11.1 |
| Indoor unit | | | FBQ30PVJU | FBQ36PVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 11-13/16 × 39-3/8 × 27-9/16 (300 × 1,000 × 700) | 11-13/16 × 55-1/8 × 27-9/16 (300 × 1,400 × 700) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 3 × 16 × 15 | 3 × 16 × 15 |
| | Face area | ft ² (m ²) | 2.68 (0.249) | 4.12 (0.383) |
| Fan | Model | | — | — |
| | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 350 | 350 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 882/794/706 (25.0/22.0/20.0) | 1,130/953/812 (32.0/27.0/23.0) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 |
| Sound pressure level (HH/H/L) | dB(A) | | 43.0/41.0/39.0 | 43.0/41.0/39.0 |
| Air filter | | | — ★4 | — ★4 |
| Weight | lbs (kg) | | 80 (36) | 102 (46) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | BRC4C82, BRC082A43 | BRC4C82, BRC082A43 |
| Outdoor unit | | | RZR30TAVJUA | RZR36TAVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90FXD#A | 2YC90FXD#A |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | lbs (kg) | | 225 (102) | 225 (102) |
| Sound pressure level | | dB(A) | 57 | 57 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | % | | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D126353 | C: 4D126353 |
| | Sound (indoor) | | C: 4D075280 | C: 4D075281 |
| | Sound (outdoor) | | C: 4D101949D | C: 4D101949D |

Notes:

★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m).

★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.

★3 External static pressure is changeable in 14 stages within the < > range by remote controller.

★4 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | FBQ42PVJU | FBQ48PVJU |
|-------------------------------|--------------------------|-----------------------------------|---|---|
| | | Outdoor unit | RZR42TAVJUA | RZR48TAVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 40,500 (11.9) | 48,000 (14.1) |
| SEER (Rated) | | | 16.0 | 14.0 |
| EER (Rated) | Btu/h-W | | 10.1 | 8.6 |
| Indoor unit | | | FBQ42PVJU | FBQ48PVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 11-13/16 × 55-1/8 × 27-9/16 (300 × 1,400 × 700) | 11-13/16 × 55-1/8 × 27-9/16 (300 × 1,400 × 700) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 3 × 16 × 15 | 3 × 16 × 15 |
| | Face area | ft ² (m ²) | 4.12 (0.383) | 4.12 (0.383) |
| Fan | Model | | — | — |
| | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 350 | 350 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,400/1,165/988 (39.6/33.0/28.0) | 1,400/1,165/988 (39.6/33.0/28.0) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 |
| Sound pressure level (HH/H/L) | dB(A) | | 44.0/42.0/40.0 | 44.0/42.0/40.0 |
| Air filter | | | — ★4 | — ★4 |
| Weight | | lbs (kg) | 102 (46) | 102 (46) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | BRC4C82, BRC082A43 | BRC4C82, BRC082A43 |
| Outdoor unit | | | RZR42TAVJUA | RZR48TAVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90FXD#A | 2YC90FXD#A |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level | | dB(A) | 57 | 57 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D126353 | C: 4D126353 |
| | Sound (indoor) | | C: 4D075282A | C: 4D075282A |
| | Sound (outdoor) | | C: 4D101949D | C: 4D101949D |

Notes:

- ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m).
- ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.
- ★3 External static pressure is changeable in 14 stages within the <> range by remote controller.
- ★4 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | FBQ18TBVJU | FBQ24TBVJU |
|-------------------------------|--------------------------|---------------------------|--|--|
| | | Outdoor unit | RZR18TBVJUA | RZR24TBVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 17,700 (5.2) | 23,400 (6.9) |
| Indoor unit | | | FBQ18TBVJU | FBQ24TBVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 9-11/16 × 39-3/8 × 31-1/2 (245 × 1,000 × 800) | 9-11/16 × 39-3/8 × 31-1/2 (245 × 1,000 × 800) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Fan | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 230 | 230 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 635/565/512 (18.0/16.0/14.5) | 742/635/565 (21.0/18.0/16.0) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 |
| Sound pressure level (H/M/L) | | dB(A) | 38.0/35.0/32.0 | 39.0/35.0/33.0 |
| Air filter | | | — ★4 | — ★4 |
| Weight | | lbs (kg) | 77 (35) | 82 (37) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (accessory) | Wired | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | BRC082A43 | BRC082A43 |
| Outdoor unit | | | RZR18TBVJUA | RZR24TBVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 39 × 37 × 12-5/8 (990 × 940 × 320) | 39 × 37 × 12-5/8 (990 × 940 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Compressor | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 1.9 | 1.9 |
| Fan | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 200 | 200 |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | 2,682 (76) |
| Weight | | lbs (kg) | 172 (78) | 172 (78) |
| Sound pressure level | | dB(A) | 58 | 58 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse |
| Capacity step | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 164 (50) | 164 (50) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Type | | R-410A | R-410A |
| | Charge | lbs (kg) | 6.4 (2.9) | 6.4 (2.9) |
| Ref. oil | Type | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.08 | 1.08 |
| Drawing No. | Specification | | 4D143009A | 4D143009A |
| | Sound (indoor) | | 4D143354 | 4D143355 |
| | Sound (outdoor) | | 4D101947D | 4D101947D |

Notes:

★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m).

★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.

★3 External static pressure is changeable in 14 stages within the < > range by remote controller.

★4 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | FBQ30TBVJU | FBQ36TBVJU |
|-------------------------------|--------------------------|-------------------------|--|--|
| | | Outdoor unit | RZR30TBVJUA | RZR36TBVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 28,400 (8.3) | 35,000 (10.3) |
| Indoor unit | | | FBQ30TBVJU | FBQ36TBVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800) | 9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Fan | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 364 | 364 |
| | Airflow rate (H/M/L) | cfm (m³/min) | 1,094/847/795 (31.0/24.0/22.5) | 1,130/953/795 (32.0/27.0/22.5) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 |
| Sound pressure level (H/M/L) | | dB(A) | 43.0/38.0/36.0 | 44.0/40.0/36.0 |
| Air filter | | | — ★4 | — ★4 |
| Weight | | lbs (kg) | 101 (46) | 101 (46) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (accessory) | Wired | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | BR082A43 | BR082A43 |
| Outdoor unit | | | RZR30TBVJUA | RZR36TBVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Compressor | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m³/min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level | | dB(A) | 57 | 57 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse |
| Capacity step | % | | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Type | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Type | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | 4D143010A | 4D143010A |
| | Sound (indoor) | | 4D143356 | 4D143357 |
| | Sound (outdoor) | | 4D101949D | 4D101949D |

Notes:

★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m).

★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.

★3 External static pressure is changeable in 14 stages within the <> range by remote controller.

★4 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | FBQ42TBVJU | FBQ48TBVJU |
|-------------------------------|--------------------------|---------------------------|--|--|
| | | Outdoor unit | RZR42TBVJUA | RZR48TBVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 40,000 (11.7) | 46,500 (13.6) |
| Indoor unit | | | FBQ42TBVJU | FBQ48TBVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800) | 9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Fan | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 364 | 364 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,377/1,130/918 (39.0/32.0/26.0) | 1,377/1,130/918 (39.0/32.0/26.0) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 |
| Sound pressure level (H/M/L) | | dB(A) | 48.0/44.0/39.0 | 48.0/44.0/39.0 |
| Air filter | | | — ★4 | — ★4 |
| Weight | | lbs (kg) | 104 (47) | 104 (47) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (accessory) | Wired | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | BR082A43 | BR082A43 |
| Outdoor unit | | | RZR42TBVJUA | RZR48TBVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Compressor | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level | | dB(A) | 57 | 57 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse |
| Capacity step | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Type | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Type | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | 4D143010A | 4D143010A |
| | Sound (indoor) | | 4D143359 | 4D143360 |
| | Sound (outdoor) | | 4D101949D | 4D101949D |

Notes:

★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m).

★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.

★3 External static pressure is changeable in 14 stages within the <> range by remote controller.

★4 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | FBQ18TBVJU | FBQ24TBVJU |
|-------------------------------|--------------------------|-------------------------|--|--|
| | | Outdoor unit | RZR18TBVJUB | RZR24TBVJUB |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | | Btu/h (kW) | 17,700 (5.2) | 23,400 (6.9) |
| Indoor unit | | | FBQ18TBVJU | FBQ24TBVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 9-11/16 × 39-3/8 × 31-1/2 (245 × 1,000 × 800) | 9-11/16 × 39-3/8 × 31-1/2 (245 × 1,000 × 800) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Fan | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 230 | 230 |
| | Airflow rate (H/M/L) | cfm (m³/min) | 635/565/512 (18.0/16.0/14.5) | 742/635/565 (21.0/18.0/16.0) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 |
| Sound pressure level (H/M/L) | | dB(A) | 38.0/35.0/32.0 | 39.0/35.0/33.0 |
| Air filter | | | — ★4 | — ★4 |
| Weight | | lbs (kg) | 77 (35) | 82 (37) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (accessory) | Wired | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | BRC082A43 | BRC082A43 |
| Outdoor unit | | | RZR18TBVJUB | RZR24TBVJUB |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 39 × 37 × 12-5/8 (990 × 940 × 320) | 39 × 37 × 12-5/8 (990 × 940 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Compressor | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 1.9 | 1.9 |
| Fan | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 200 | 200 |
| | Airflow rate | cfm (m³/min) | 2,682 (76) | 2,682 (76) |
| Weight | | lbs (kg) | 172 (78) | 172 (78) |
| Sound pressure level | | dB(A) | 58 | 58 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse |
| Capacity step | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 164 (50) | 164 (50) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Type | | R-410A | R-410A |
| | Charge | lbs (kg) | 6.4 (2.9) | 6.4 (2.9) |
| Ref. oil | Type | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.08 | 1.08 |
| Drawing No. | Specification | | 4D148308 | 4D148308 |
| | Sound (indoor) | | 4D143354 | 4D143355 |
| | Sound (outdoor) | | 4D101947D | 4D101947D |

Notes:

- ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m).
- ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.
- ★3 External static pressure is changeable in 14 stages within the < > range by remote controller.
- ★4 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | FBQ30TBVJU | FBQ36TBVJU |
|-------------------------------|--------------------------|---------------------------|--|--|
| | | Outdoor unit | RZR30TBVJUB | RZR36TBVJUB |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 28,400 (8.3) | 35,000 (10.3) |
| Indoor unit | | | FBQ30TBVJU | FBQ36TBVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800) | 9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Fan | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 364 | 364 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,094/847/795 (31.0/24.0/22.5) | 1,130/953/795 (32.0/27.0/22.5) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 |
| Sound pressure level (H/M/L) | | dB(A) | 43.0/38.0/36.0 | 44.0/40.0/36.0 |
| Air filter | | | — ★4 | — ★4 |
| Weight | | lbs (kg) | 101 (46) | 101 (46) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (accessory) | Wired | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | BR082A43 | BR082A43 |
| Outdoor unit | | | RZR30TBVJUB | RZR36TBVJUB |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Compressor | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level | | dB(A) | 57 | 57 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse |
| Capacity step | % | | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Type | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Type | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | 4D148309 | 4D148309 |
| | Sound (indoor) | | 4D143356 | 4D143357 |
| | Sound (outdoor) | | 4D101949D | 4D101949D |

Notes:

★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m).

★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.

★3 External static pressure is changeable in 14 stages within the <> range by remote controller.

★4 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | FBQ42TBVJU | FBQ48TBVJU |
|-------------------------------|--------------------------|-------------------------|--|--|
| | | Outdoor unit | RZR42TBVJUB | RZR48TBVJUB |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 40,000 (11.7) | 46,500 (13.6) |
| Indoor unit | | | FBQ42TBVJU | FBQ48TBVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800) | 9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Fan | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 364 | 364 |
| | Airflow rate (H/M/L) | cfm (m³/min) | 1,377/1,130/918 (39.0/32.0/26.0) | 1,377/1,130/918 (39.0/32.0/26.0) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★3 |
| Sound pressure level (H/M/L) | | dB(A) | 48.0/44.0/39.0 | 48.0/44.0/39.0 |
| Air filter | | | — ★4 | — ★4 |
| Weight | | lbs (kg) | 104 (47) | 104 (47) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (accessory) | Wired | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | BR082A43 | BR082A43 |
| Outdoor unit | | | RZR42TBVJUB | RZR48TBVJUB |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Compressor | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m³/min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level | | dB(A) | 57 | 57 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse |
| Capacity step | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Type | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Type | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | 4D148309 | 4D148309 |
| | Sound (indoor) | | 4D143359 | 4D143360 |
| | Sound (outdoor) | | 4D101949D | 4D101949D |

Notes:

★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m).

★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.

★3 External static pressure is changeable in 14 stages within the <> range by remote controller.

★4 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

3.1.5 Multi Position Air Handling Unit

| Model name | Indoor unit | | FTQ18TAVJUD, FTQ18TAVJUA | | FTQ24TAVJUD, FTQ24TAVJUA | |
|------------------------------|--------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | RZR18TAVJU | | RZR24TAVJU | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | | 24,000 (7.0) | |
| SEER (Rated) | | | 15.5 | | 15.2 | |
| EER (Rated) | Btu/h·W | | 12.5 | | 10.3 | |
| Indoor unit | | | FTQ18TAVJUD, FTQ18TAVJUA | | FTQ24TAVJUD, FTQ24TAVJUA | |
| Casing color | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | in (mm) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Face area | ft ² (m ²) | 3.75 (35) | | 3.75 (35) | |
| Fan | Type | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | 1/2 | | 1/2 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 600/510/420 (17.0/14.4/11.9) | | 800/680/560 (22.7/19.3/15.9) | |
| | External static pressure | in. w.g. | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Sound pressure level (H/M/L) | dB(A) | | 44.6/41.3/38.4 | | 51.6/48.2/44.0 | |
| Air filter | | | — ★3 | | — ★3 | |
| Weight | lbs (kg) | | 115 (52.2) | | 115 (52.2) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Brazing connection) | | φ3/8 (φ9.5) (Brazing connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Brazing connection) | | φ5/8 (φ15.9) (Brazing connection) | |
| | Drain Pipe | in (mm) | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | |
| | Wireless | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | RZR18TAVJU | | RZR24TAVJU | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 44 × 19 | | 2 × 44 × 19 | |
| | Face area | ft ² (m ²) | 9.5 (0.88) | | 9.5 (0.88) | |
| Compressor | Model | | 2YC63ABXDD | | 2YC63ABXDD | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 1.9 | | 1.9 | |
| Fan | Model | | P51J11F | | P51J11F | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | | 2,682 (76) | |
| Weight | lbs (kg) | | 172 (78) | | 172 (78) | |
| Sound pressure level | dB(A) | | 58 | | 58 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.08 | | 1.08 | |
| Drawing No. | Sound (outdoor) | | C: 4D101947D | | C: 4D101947D | |

Notes:

★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m).

★2 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

★3 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | Indoor unit | | FTQ30TAVJUD, FTQ30TAVJUA | | FTQ36TAVJUD, FTQ36TAVJUA | |
|------------------------------|--------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | RZR30TAVJU | | RZR36TAVJU | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 30,000 (8.8) | | 36,000 (10.6) | |
| SEER (Rated) | | | 16.0 | | 15.3 | |
| EER (Rated) | Btu/h-W | | 12.5 | | 11.3 | |
| Indoor unit | | | FTQ30TAVJUD, FTQ30TAVJUA | | FTQ36TAVJUD, FTQ36TAVJUA | |
| Casing color | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | | in (mm) 45 × 17.5 × 21 (1,143 × 445 × 533) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Face area | ft ² (m ²) | 3.75 (35) | | 3.75 (35) | |
| Fan | Type | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | 1/2 | | 1/2 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,000/850/700 (28.3/24.1/19.8) | | 1,050/900/750 (29.7/25.5/21.2) | |
| | External static pressure | in. w.g. | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Sound pressure level (H/M/L) | | | dB(A) 51.6/48.2/44.0 | | 51.6/48.2/44.0 | |
| Air filter | | | — ★3 | | — ★3 | |
| Weight | | | lbs (kg) 115 (52.2) | | 140 (63.5) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Brazing connection) | | φ3/8 (φ9.5) (Brazing connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Brazing connection) | | φ5/8 (φ15.9) (Brazing connection) | |
| | Drain Pipe | in (mm) | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | |
| | Wireless | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | RZR30TAVJU | | RZR36TAVJU | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | | in (mm) 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 60 × 19 | | 2 × 60 × 19 | |
| | Face area | ft ² (m ²) | 12.2 (1.134) | | 12.2 (1.134) | |
| Compressor | Model | | 2YC90GXD#D | | 2YC90GXD#D | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 3.5 | | 3.5 | |
| Fan | Model | | P47N | | P47N | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | | 3,741 (106) | |
| Weight | | | lbs (kg) 225 (102) | | 225 (102) | |
| Sound pressure level | | | dB(A) 57 | | 57 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | | | % | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.52 | | 1.52 | |
| Drawing No. | Sound (outdoor) | | C: 4D101949D | | C: 4D101949D | |

Notes:
 ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m).
 ★2 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
 ★3 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | Indoor unit | | FTQ42TAVJUD, FTQ42TAVJUA | | FTQ48TAVJUD, FTQ48TAVJUA | |
|------------------------------|--------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | RZR42TAVJU | | RZR48TAVJU | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 42,000 (12.3) | | 48,000 (14.1) | |
| SEER (Rated) | | | 16.0 | | 14.8 | |
| EER (Rated) | Btu/h-W | | 11.0 | | 9.5 | |
| Indoor unit | | | FTQ42TAVJUD, FTQ42TAVJUA | | FTQ48TAVJUD, FTQ48TAVJUA | |
| Casing color | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | in (mm) | | 53.43 × 21 × 21 (1,357 × 533 × 533) | | 53.43 × 21 × 21 (1,357 × 533 × 533) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Face area | ft ² (m ²) | 5.15 (48) | | 5.15 (48) | |
| Fan | Type | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | 3/4 | | 3/4 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,400/1,190/980 (39.7/33.7/27.8) | | 1,520/1,290/1,060 (43.1/36.5/30.0) | |
| | External static pressure | in. w.g. | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Sound pressure level (H/M/L) | dB(A) | | 53.8/50.0/45.6 | | 53.8/50.0/45.6 | |
| Air filter | | | — ★3 | | — ★3 | |
| Weight | lbs (kg) | | 150 (68) | | 150 (68) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Brazing connection) | | φ3/8 (φ9.5) (Brazing connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Brazing connection) | | φ5/8 (φ15.9) (Brazing connection) | |
| | Drain Pipe | in (mm) | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | |
| | Wireless | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | RZR42TAVJU | | RZR48TAVJU | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | in (mm) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 60 × 19 | | 2 × 60 × 19 | |
| | Face area | ft ² (m ²) | 12.2 (1.134) | | 12.2 (1.134) | |
| Compressor | Model | | 2YC90GXD#D | | 2YC90GXD#D | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 3.5 | | 3.5 | |
| Fan | Model | | P47N | | P47N | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | | 3,741 (106) | |
| Weight | lbs (kg) | | 225 (102) | | 225 (102) | |
| Sound pressure level | dB(A) | | 57 | | 57 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.52 | | 1.52 | |
| Drawing No. | Sound (outdoor) | | C: 4D101949D | | C: 4D101949D | |

Notes:

★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m).

★2 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

★3 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | Indoor unit | | FTQ18TAVJUD, FTQ18TAVJUA | | FTQ24TAVJUD, FTQ24TAVJUA | |
|------------------------------|--------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | RZR18TAVJUA | | RZR24TAVJUA | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | | 24,000 (7.0) | |
| SEER (Rated) | | | 15.5 | | 15.2 | |
| EER (Rated) | Btu/h-W | | 12.5 | | 10.3 | |
| Indoor unit | | | FTQ18TAVJUD, FTQ18TAVJUA | | FTQ24TAVJUD, FTQ24TAVJUA | |
| Casing color | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | | in (mm) 45 × 17.5 × 21 (1,143 × 445 × 533) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Face area | ft ² (m ²) | 3.75 (35) | | 3.75 (35) | |
| Fan | Type | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | 1/2 | | 1/2 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 600/510/420 (17.0/14.4/11.9) | | 800/680/560 (22.7/19.3/15.9) | |
| | External static pressure | in. w.g. | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Sound pressure level (H/M/L) | | | dB(A) 44.6/41.3/38.4 | | 51.6/48.2/44.0 | |
| Air filter | | | — ★3 | | — ★3 | |
| Weight | | | lbs (kg) 115 (52.2) | | 115 (52.2) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Brazing connection) | | φ3/8 (φ9.5) (Brazing connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Brazing connection) | | φ5/8 (φ15.9) (Brazing connection) | |
| | Drain Pipe | in (mm) | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | |
| | Wireless | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | RZR18TAVJUA | | RZR24TAVJUA | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | | in (mm) 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 44 × 19 | | 2 × 44 × 19 | |
| | Face area | ft ² (m ²) | 9.5 (0.88) | | 9.5 (0.88) | |
| Compressor | Model | | 2YC63TXD#A | | 2YC63TXD#A | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 1.9 | | 1.9 | |
| Fan | Model | | P51J11F | | P51J11F | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | | 2,682 (76) | |
| Weight | | | lbs (kg) 172 (78) | | 172 (78) | |
| Sound pressure level | | | dB(A) 58 | | 58 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | | | % | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.08 | | 1.08 | |
| Drawing No. | Sound (outdoor) | | C: 4D101947D | | C: 4D101947D | |

Notes:
 ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m).
 ★2 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
 ★3 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | Indoor unit | | FTQ30TAVJUD, FTQ30TAVJUA | | FTQ36TAVJUD, FTQ36TAVJUA | |
|------------------------------|--------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | RZR30TAVJUA | | RZR36TAVJUA | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | | Btu/h (kW) | 30,000 (8.8) | | 36,000 (10.6) | |
| SEER (Rated) | | | 16.0 | | 15.3 | |
| EER (Rated) | | Btu/h-W | 12.5 | | 11.3 | |
| Indoor unit | | | FTQ30TAVJUD, FTQ30TAVJUA | | FTQ36TAVJUD, FTQ36TAVJUA | |
| Casing color | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | in (mm) | 45 × 17.5 × 21 (1,143 × 445 × 533) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Face area | ft ² (m ²) | 3.75 (35) | | 3.75 (35) | |
| Fan | Type | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | 1/2 | | 1/2 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,000/850/700 (28.3/24.1/19.8) | | 1,050/900/750 (29.7/25.5/21.2) | |
| | External static pressure | in. w.g. | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Sound pressure level (H/M/L) | | dB(A) | 51.6/48.2/44.0 | | 51.6/48.2/44.0 | |
| Air filter | | | — ★3 | | — ★3 | |
| Weight | | lbs (kg) | 115 (52.2) | | 140 (63.5) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Brazing connection) | | φ3/8 (φ9.5) (Brazing connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Brazing connection) | | φ5/8 (φ15.9) (Brazing connection) | |
| | Drain Pipe | in (mm) | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | |
| | Wireless | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | RZR30TAVJUA | | RZR36TAVJUA | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 60 × 19 | | 2 × 60 × 19 | |
| | Face area | ft ² (m ²) | 12.2 (1.134) | | 12.2 (1.134) | |
| Compressor | Model | | 2YC90FXD#A | | 2YC90FXD#A | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 3.5 | | 3.5 | |
| Fan | Model | | P47N | | P47N | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | | 3,741 (106) | |
| Weight | | lbs (kg) | 225 (102) | | 225 (102) | |
| Sound pressure level | | dB(A) | 57 | | 57 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | | % | 14-100 | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.52 | | 1.52 | |
| Drawing No. | Sound (outdoor) | | C: 4D101949D | | C: 4D101949D | |

Notes:

★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m).

★2 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

★3 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | Indoor unit | | FTQ42TAVJUD, FTQ42TAVJUA | | FTQ48TAVJUD, FTQ48TAVJUA | |
|------------------------------|--------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | RZR42TAVJUA | | RZR48TAVJUA | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | | Btu/h (kW) | 42,000 (12.3) | | 48,000 (14.1) | |
| SEER (Rated) | | | 16.0 | | 14.8 | |
| EER (Rated) | | Btu/h-W | 11.0 | | 9.5 | |
| Indoor unit | | | FTQ42TAVJUD, FTQ42TAVJUA | | FTQ48TAVJUD, FTQ48TAVJUA | |
| Casing color | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | in (mm) | 53.43 × 21 × 21 (1,357 × 533 × 533) | | 53.43 × 21 × 21 (1,357 × 533 × 533) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Face area | ft ² (m ²) | 5.15 (48) | | 5.15 (48) | |
| Fan | Type | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | 3/4 | | 3/4 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,400/1,190/980 (39.7/33.7/27.8) | | 1,520/1,290/1,060 (43.1/36.5/30.0) | |
| | External static pressure | in. w.g. | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Sound pressure level (H/M/L) | | dB(A) | 53.8/50.0/45.6 | | 53.8/50.0/45.6 | |
| Air filter | | | — ★3 | | — ★3 | |
| Weight | | lbs (kg) | 150 (68) | | 150 (68) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Brazing connection) | | φ3/8 (φ9.5) (Brazing connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Brazing connection) | | φ5/8 (φ15.9) (Brazing connection) | |
| | Drain Pipe | in (mm) | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | |
| | Wireless | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | RZR42TAVJUA | | RZR48TAVJUA | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 60 × 19 | | 2 × 60 × 19 | |
| | Face area | ft ² (m ²) | 12.2 (1.134) | | 12.2 (1.134) | |
| Compressor | Model | | 2YC90FXD#A | | 2YC90FXD#A | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 3.5 | | 3.5 | |
| Fan | Model | | P47N | | P47N | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | | 3,741 (106) | |
| Weight | | lbs (kg) | 225 (102) | | 225 (102) | |
| Sound pressure level | | dB(A) | 57 | | 57 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | | % | 14-100 | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.52 | | 1.52 | |
| Drawing No. | Sound (outdoor) | | C: 4D101949D | | C: 4D101949D | |

Notes:
 ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), level difference : 0 ft (0 m).
 ★2 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
 ★3 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | | Indoor unit | | FTQ18TAVJUD, FTQ18TAVJUA | | FTQ24TAVJUD, FTQ24TAVJUA | |
|-------------------------------|--------------------------|---------------------------|--|---|--|---|--|
| | | Outdoor unit | | RZR18TBVJUA | | RZR24TBVJUA | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | | Btu/h (kW) | | 17,200 (5.0) | | 23,400 (6.9) | |
| EER2 (Rated) | | Btu/h·W | | 11.7 | | 9.9 | |
| SEER2 (Rated) | | | | 15.6 | | 16.2 | |
| Indoor unit | | | | FTQ18TAVJUD, FTQ18TAVJUA | | FTQ24TAVJUD, FTQ24TAVJUA | |
| Casing color | | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | in (mm) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Fan | Type | | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | | 1/2 | | 1/2 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | | 600/510/420 (17.0/14.4/11.9) | | 800/680/560 (22.7/19.3/15.9) | |
| | External static pressure | in. w.g. | | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Air filter | | | | — ★3 | | — ★3 | |
| Weight | | lbs (kg) | | 115 (52.2) | | 115 (52.2) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Brazing connection) | | φ3/8 (φ9.5) (Brazing connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Brazing connection) | | φ5/8 (φ15.9) (Brazing connection) | |
| | Drain | in (mm) | | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (accessory) | Wired | | | BRC1H71W, BRC1E73, BRC2A71 | | BRC1H71W, BRC1E73, BRC2A71 | |
| | Wireless | | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | | RZR18TBVJUA | | RZR24TBVJUA | |
| Casing color | | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Compressor | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | | 1.9 | | 1.9 | |
| Fan | Type | | | Propeller fan | | Propeller fan | |
| | Motor output | W | | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | | 2,682 (76) | | 2,682 (76) | |
| Weight | | lbs (kg) | | 172 (78) | | 172 (78) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain | in (mm) | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity step | | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | | R-410A | | R-410A | |
| | Charge | lbs (kg) | | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | | 1.08 | | 1.08 | |

Notes:

★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m).

★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.

★3 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | | Indoor unit | | FTQ30TAVJUD, FTQ30TAVJUA | | FTQ36TAVJUD, FTQ36TAVJUA | |
|-------------------------------|--------------------------|--------------|--|---|--|---|--|
| | | Outdoor unit | | RZR30TBVJUA | | RZR36TBVJUA | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | | Btu/h (kW) | | 29,500 (8.6) | | 35,000 (10.3) | |
| EER2 (Rated) | | Btu/h·W | | 11.9 | | 11.2 | |
| SEER2 (Rated) | | | | 15.6 | | 16.4 | |
| Indoor unit | | | | FTQ30TAVJUD, FTQ30TAVJUA | | FTQ36TAVJUD, FTQ36TAVJUA | |
| Casing color | | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | in (mm) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Fan | Type | | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | | 1/2 | | 1/2 | |
| | Airflow rate (H/M/L) | cfm (m³/min) | | 1,000/850/700 (28.3/24.1/19.8) | | 1,050/900/750 (29.7/25.5/21.2) | |
| | External static pressure | in. w.g. | | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Air filter | | | | — ★3 | | — ★3 | |
| Weight | | lbs (kg) | | 115 (52.2) | | 140 (63.5) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Braze connection) | | φ3/8 (φ9.5) (Braze connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Braze connection) | | φ5/8 (φ15.9) (Braze connection) | |
| | Drain | in (mm) | | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (accessory) | Wired | | | BRC1H71W, BRC1E73, BRC2A71 | | BRC1H71W, BRC1E73, BRC2A71 | |
| | Wireless | | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | | RZR30TBVJUA | | RZR36TBVJUA | |
| Casing color | | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Compressor | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | | 3.5 | | 3.5 | |
| Fan | Type | | | Propeller fan | | Propeller fan | |
| | Motor output | W | | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m³/min) | | 3,741 (106) | | 3,741 (106) | |
| Weight | | lbs (kg) | | 225 (102) | | 225 (102) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain | in (mm) | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity step | | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | | R-410A | | R-410A | |
| | Charge | lbs (kg) | | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | | 1.52 | | 1.52 | |

Notes:

- ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m).
- ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.
- ★3 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | | Indoor unit | | FTQ42TAVJUD, FTQ42TAVJUA | | FTQ48TAVJUD, FTQ48TAVJUA | |
|-------------------------------|--------------------------|---------------------------|--|---|--|---|--|
| | | Outdoor unit | | RZR42TBVJUA | | RZR48TBVJUA | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | | Btu/h (kW) | | 40,500 (11.9) | | 47,000 (13.8) | |
| EER2 (Rated) | | Btu/h·W | | 10.6 | | 9.1 | |
| SEER2 (Rated) | | | | 16.0 | | 15.3 | |
| Indoor unit | | | | FTQ42TAVJUD, FTQ42TAVJUA | | FTQ48TAVJUD, FTQ48TAVJUA | |
| Casing color | | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | in (mm) | | 53.43 × 21 × 21 (1,357 × 533 × 533) | | 53.43 × 21 × 21 (1,357 × 533 × 533) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| | Type | | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| Fan | Motor output | HP | | 3/4 | | 3/4 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | | 1,400/1,190/980 (39.7/33.7/27.8) | | 1,520/1,290/1,060 (43.1/36.5/30.0) | |
| | External static pressure | in. w.g. | | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Air filter | | | | — ★3 | | — ★3 | |
| Weight | | lbs (kg) | | 150 (68) | | 150 (68) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Brazing connection) | | φ3/8 (φ9.5) (Brazing connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Brazing connection) | | φ5/8 (φ15.9) (Brazing connection) | |
| | Drain | in (mm) | | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (accessory) | Wired | | | BRC1H71W, BRC1E73, BRC2A71 | | BRC1H71W, BRC1E73, BRC2A71 | |
| | Wireless | | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | | RZR42TBVJUA | | RZR48TBVJUA | |
| Casing color | | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| Compressor | Motor output | kW | | 3.5 | | 3.5 | |
| | Type | | | Propeller fan | | Propeller fan | |
| Fan | Motor output | W | | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | | 3,741 (106) | | 3,741 (106) | |
| Weight | | lbs (kg) | | 225 (102) | | 225 (102) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain | in (mm) | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity step | | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | | R-410A | | R-410A | |
| | Charge | lbs (kg) | | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | | 1.52 | | 1.52 | |

Notes:

★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m).

★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.

★3 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | | Indoor unit | | FTQ18TBVJUD, FTQ18TBVJUA | | FTQ24TBVJUD, FTQ24TBVJUA | |
|-------------------------------|--------------------------|--------------|--|---|--|---|--|
| | | Outdoor unit | | RZR18TBVJUB | | RZR24TBVJUB | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | | Btu/h (kW) | | 17,200 (5.0) | | 23,400 (6.9) | |
| EER2 (Rated) | | Btu/h·W | | 11.7 | | 9.9 | |
| SEER2 (Rated) | | | | 15.6 | | 16.2 | |
| Indoor unit | | | | FTQ18TBVJUD, FTQ18TBVJUA | | FTQ24TBVJUD, FTQ24TBVJUA | |
| Casing color | | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | in (mm) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Fan | Type | | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | | 1/2 | | 1/2 | |
| | Airflow rate (H/M/L) | cfm (m³/min) | | 600/510/420 (17.0/14.4/11.9) | | 800/680/560 (22.7/19.3/15.9) | |
| | External static pressure | in. w.g. | | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Air filter | | | | — ★3 | | — ★3 | |
| Weight | | lbs (kg) | | 115 (52.2) | | 115 (52.2) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Brazing connection) | | φ3/8 (φ9.5) (Brazing connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Brazing connection) | | φ5/8 (φ15.9) (Brazing connection) | |
| | Drain | in (mm) | | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (accessory) | Wired | | | BRC1H71W, BRC1E73, BRC2A71 | | BRC1H71W, BRC1E73, BRC2A71 | |
| | Wireless | | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | | RZR18TBVJUB | | RZR24TBVJUB | |
| Casing color | | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Compressor | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | | 1.9 | | 1.9 | |
| Fan | Type | | | Propeller fan | | Propeller fan | |
| | Motor output | W | | 200 | | 200 | |
| | Airflow rate | cfm (m³/min) | | 2,682 (76) | | 2,682 (76) | |
| Weight | | lbs (kg) | | 172 (78) | | 172 (78) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain | in (mm) | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity step | | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | | R-410A | | R-410A | |
| | Charge | lbs (kg) | | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | | 1.08 | | 1.08 | |

Notes:

- ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m).
- ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.
- ★3 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | | Indoor unit | | FTQ30TBVJUD, FTQ30TBVJUA | | FTQ36TBVJUD, FTQ36TBVJUA | |
|-------------------------------|--------------------------|---------------------------|--|---|--|---|--|
| | | Outdoor unit | | RZR30TBVJUB | | RZR36TBVJUB | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | | Btu/h (kW) | | 29,500 (8.6) | | 35,000 (10.3) | |
| EER2 (Rated) | | Btu/h·W | | 11.9 | | 11.2 | |
| SEER2 (Rated) | | | | 15.6 | | 16.4 | |
| Indoor unit | | | | FTQ30TBVJUD, FTQ30TBVJUA | | FTQ36TBVJUD, FTQ36TBVJUA | |
| Casing color | | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | in (mm) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Fan | Type | | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | | 1/2 | | 1/2 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | | 1,000/850/700 (28.3/24.1/19.8) | | 1,050/900/750 (29.7/25.5/21.2) | |
| | External static pressure | in. w.g. | | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Air filter | | | | — ★3 | | — ★3 | |
| Weight | | lbs (kg) | | 115 (52.2) | | 140 (63.5) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Brazing connection) | | φ3/8 (φ9.5) (Brazing connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Brazing connection) | | φ5/8 (φ15.9) (Brazing connection) | |
| | Drain | in (mm) | | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (accessory) | Wired | | | BRC1H71W, BRC1E73, BRC2A71 | | BRC1H71W, BRC1E73, BRC2A71 | |
| | Wireless | | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | | RZR30TBVJUB | | RZR36TBVJUB | |
| Casing color | | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Compressor | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | | 3.5 | | 3.5 | |
| Fan | Type | | | Propeller fan | | Propeller fan | |
| | Motor output | W | | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | | 3,741 (106) | | 3,741 (106) | |
| Weight | | lbs (kg) | | 225 (102) | | 225 (102) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain | in (mm) | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity step | | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | | R-410A | | R-410A | |
| | Charge | lbs (kg) | | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | | 1.52 | | 1.52 | |

Notes:

★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m).

★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.

★3 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | | Indoor unit | | FTQ42TBVJUD, FTQ42TBVJUA | | FTQ48TBVJUD, FTQ48TBVJUA | |
|-------------------------------|--------------------------|--------------|--|---|--|---|--|
| | | Outdoor unit | | RZR42TBVJUB | | RZR48TBVJUB | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★2 Cooling capacity | | Btu/h (kW) | | 40,500 (11.9) | | 47,000 (13.8) | |
| EER2 (Rated) | | Btu/h·W | | 10.6 | | 9.1 | |
| SEER2 (Rated) | | | | 16.0 | | 15.3 | |
| Indoor unit | | | | FTQ42TBVJUD, FTQ42TBVJUA | | FTQ48TBVJUD, FTQ48TBVJUA | |
| Casing color | | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | in (mm) | | 53.43 × 21 × 21 (1,357 × 533 × 533) | | 53.43 × 21 × 21 (1,357 × 533 × 533) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| | Type | | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| Fan | Motor output | HP | | 3/4 | | 3/4 | |
| | Airflow rate (H/M/L) | cfm (m³/min) | | 1,400/1,190/980 (39.7/33.7/27.8) | | 1,520/1,290/1,060 (43.1/36.5/30.0) | |
| | External static pressure | in. w.g. | | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Air filter | | | | — ★3 | | — ★3 | |
| Weight | | lbs (kg) | | 150 (68) | | 150 (68) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Brazing connection) | | φ3/8 (φ9.5) (Brazing connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Brazing connection) | | φ5/8 (φ15.9) (Brazing connection) | |
| | Drain | in (mm) | | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (accessory) | Wired | | | BRC1H71W, BRC1E73, BRC2A71 | | BRC1H71W, BRC1E73, BRC2A71 | |
| | Wireless | | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | | RZR42TBVJUB | | RZR48TBVJUB | |
| Casing color | | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| Compressor | Motor output | kW | | 3.5 | | 3.5 | |
| | Type | | | Propeller fan | | Propeller fan | |
| Fan | Motor output | W | | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m³/min) | | 3,741 (106) | | 3,741 (106) | |
| | Type | | | Propeller fan | | Propeller fan | |
| Weight | | lbs (kg) | | 225 (102) | | 225 (102) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain | in (mm) | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity step | | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | | R-410A | | R-410A | |
| | Charge | lbs (kg) | | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | | 1.52 | | 1.52 | |

Notes:

- ★1 Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft (7.6 m), height difference : 0 ft (0 m).
- ★2 Capacities are net, including a deduction for cooling for indoor fan motor heat.
- ★3 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

3.2 Heat Pump

3.2.1 Ceiling Mounted Cassette Type (Round Flow with Sensing Panel)

| Model name | Indoor unit | | FCQ18TAVJU RZQ18TAVJU | | FCQ24TAVJU RZQ24TAVJU | |
|--|------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | | | | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | | 24,000 (7.0) | |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 20,000 (5.9) | | 27,000 (7.9) | |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 12,000 (3.5) | | 18,000 (5.3) | |
| SEER (Rated) | | | 18.6 | | 18.5 | |
| EER (Rated) | Btu/h·W | | 13.0 | | 12.0 | |
| HSPF (Rated) | | | 10.1 | | 10.2 | |
| Indoor unit | | | FCQ18TAVJU | | FCQ24TAVJU | |
| Casing color | | | Galvanized steel plate | | Galvanized steel plate | |
| Dimensions: (H×W×D) | in (mm) | | 10-1/16 × 33-1/16 × 33-1/16 (256 × 840 × 840) | | 10-1/16 × 33-1/16 × 33-1/16 (256 × 840 × 840) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 3 × (12 + 15 × 2) × (20 + 21 × 2) | | 3 × (12 + 15 × 2) × (20 + 21 × 2) | |
| | Face area | ft ² (m ²) | 4.59 (0.427) | | 4.59 (0.427) | |
| Fan | Model | | QTS48C15M | | QTS48C15M | |
| | Type | | Turbo fan | | Turbo fan | |
| | Motor output | W | 48 | | 48 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 742/618/477 (21.0/17.5/13.5) | | 777/618/477 (22.0/17.5/13.5) | |
| Sound pressure level (H/M/L) | | dB(A) | 35.5/32.0/28.0 | | 36.0/32.0/28.0 | |
| Air filter | | | — | | — | |
| Weight | lbs (kg) | | 63 (28.5) | | 63 (28.5) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | |
| | Wireless | | — | | — | |
| Decoration panels (option) | Model | | BYCQ125B-W1 / BYCQ125BGW1 | | BYCQ125B-W1 / BYCQ125BGW1 | |
| | Color | | Fresh white | | Fresh white | |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | |
| | Air filter | | Resin net (with mold resistance) | | Resin net (with mold resistance) | |
| | Weight | lbs (kg) | 12.2 (5.5) / 22.1 (10.0) | | 12.2 (5.5) / 22.1 (10.0) | |
| Outdoor unit | | | RZQ18TAVJU | | RZQ24TAVJU | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 44 × 19 | | 2 × 44 × 19 | |
| | Face area | ft ² (m ²) | 9.5 (0.88) | | 9.5 (0.88) | |
| Compressor | Model | | 2YC63ABXDD | | 2YC63ABXDD | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 1.9 | | 1.9 | |
| Fan | Model | | P51J11F | | P51J11F | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | | 2,682 (76) | |
| Weight | lbs (kg) | | 172 (78) | | 172 (78) | |
| Sound pressure level (Cooling/Heating) | | dB(A) | 58 / 61 | | 58 / 61 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.08 | | 1.08 | |
| Drawing No. | Specification | | C: 4D115508 | | C: 4D115508 | |
| | Sound (indoor) | | C: 4D087483B | | C: 4D087474B | |
| | Sound (outdoor) | | C: 4D101947D / C: 4D101948E | | C: 4D101947D / C: 4D101948E | |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

| Model name | Indoor unit | | FCQ30TAVJU | FCQ36TAVJU |
|--|------------------------|-----------------------------------|---|---|
| | Outdoor unit | | RZQ30TAVJU | RZQ36TAVJU |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 30,000 (8.8) | 36,000 (10.6) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 34,000 (10.0) | 40,000 (11.7) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 22,000 (6.4) | 21,000 (6.2) |
| SEER (Rated) | | | 17.2 | 17.6 |
| EER (Rated) | | | 9.3 | 11.4 |
| HSPF (Rated) | | | 10.2 | 9.0 |
| Indoor unit | | | FCQ30TAVJU | FCQ36TAVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | | 11-23/32 × 33-1/16 × 33-1/16 (298 × 840 × 840) | 11-23/32 × 33-1/16 × 33-1/16 (298 × 840 × 840) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 3 × 18 × (20 + 21 × 2) | 3 × 18 × (20 + 21 × 2) |
| | Face area | ft ² (m ²) | 5.92 (0.550) | 5.92 (0.550) |
| Fan | Model | | QTS48C15M | QTS48C15M |
| | Type | | Turbo fan | Turbo fan |
| | Motor output | W | 106 | 106 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,112/918/671 (31.5/26.0/19.0) | 1,165/918/671 (33.0/26.0/19.0) |
| Sound pressure level (H/M/L) | | | 43.5/38.0/32.0 | 44.0/38.0/32.0 |
| Air filter | | | — | — |
| Weight | | | 70 (31.5) | 70 (31.5) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | — | — |
| Decoration panels (option) | Model | | BYCQ125B-W1 / BYCQ125BGW1 | BYCQ125B-W1 / BYCQ125BGW1 |
| | Color | | Fresh white | Fresh white |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) |
| | Air filter | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| Weight | | | 12.2 (5.5) / 22.1 (10.0) | 12.2 (5.5) / 22.1 (10.0) |
| Outdoor unit | | | RZQ30TAVJU | RZQ36TAVJU |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90GXD#D | 2YC90GXD#D |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | | 225 (102) | 225 (102) |
| Sound pressure level (Cooling/Heating) | | | 57 / 59 | 57 / 59 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D115510 | C: 4D115510 |
| | Sound (indoor) | | C: 4D087479B | C: 4D087475B |
| | Sound (outdoor) | | C: 4D101949D / C: 4D101950E | C: 4D101949D / C: 4D101950E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-9.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

| Model name | Indoor unit | | FCQ42TAVJU | FCQ48TAVJU |
|--|------------------------|-----------------------------------|---|---|
| | Outdoor unit | | RZQ42TAVJU | RZQ48TAVJU |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 42,000 (12.3) | 48,000 (14.1) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 47,000 (13.8) | 54,000 (15.8) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 25,000 (7.3) | 28,000 (8.2) |
| SEER (Rated) | | | 17.0 | 17.0 |
| EER (Rated) | | | 10.3 | 9.0 |
| HSPF (Rated) | | | 8.6 | 9.3 |
| Indoor unit | | | FCQ42TAVJU | FCQ48TAVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | | 11-23/32 × 33-1/16 × 33-1/16 (298 × 840 × 840) | 11-23/32 × 33-1/16 × 33-1/16 (298 × 840 × 840) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 3 × 18 × (20 + 21 × 2) | 3 × 18 × (20 + 21 × 2) |
| | Face area | ft ² (m ²) | 5.92 (0.550) | 5.92 (0.550) |
| Fan | Model | | QTS48C15M | QTS48C15M |
| | Type | | Turbo fan | Turbo fan |
| | Motor output | W | 106 | 106 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,218/971/742 (34.5/27.5/21.0) | 1,218/971/742 (34.5/27.5/21.0) |
| Sound pressure level (H/M/L) | | | 45.0/40.0/35.0 | 45.0/40.0/35.0 |
| Air filter | | | — | — |
| Weight | | | 70 (31.5) | 70 (31.5) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | — | — |
| Decoration panels (option) | Model | | BYCQ125B-W1 / BYCQ125BGW1 | BYCQ125B-W1 / BYCQ125BGW1 |
| | Color | | Fresh white | Fresh white |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) |
| | Air filter | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| | Weight | lbs (kg) | 12.2 (5.5) / 22.1 (10.0) | 12.2 (5.5) / 22.1 (10.0) |
| Outdoor unit | | | RZQ42TAVJU | RZQ48TAVJU |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90GXD#D | 2YC90GXD#D |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | | 225 (102) | 225 (102) |
| Sound pressure level (Cooling/Heating) | | | 57 / 59 | 57 / 59 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D115510 | C: 4D115510 |
| | Sound (indoor) | | C: 4D087476B | C: 4D087476B |
| | Sound (outdoor) | | C: 4D101949D / C: 4D101950E | C: 4D101949D / C: 4D101950E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-9.4°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

| Model name | Indoor unit | | FCQ18TAVJU | | FCQ24TAVJU | |
|--|------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | RZQ18TAVJUA | | RZQ24TAVJUA | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | | 24,000 (7.0) | |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 20,000 (5.9) | | 27,000 (7.9) | |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 12,000 (3.5) | | 18,000 (5.3) | |
| SEER (Rated) | | | 18.6 | | 18.5 | |
| EER (Rated) | | | 13.0 | | 12.0 | |
| HSPF (Rated) | | | 10.1 | | 10.2 | |
| Indoor unit | | | FCQ18TAVJU | | FCQ24TAVJU | |
| Casing color | | | Galvanized steel plate | | Galvanized steel plate | |
| Dimensions: (H×W×D) | | | 10-1/16 × 33-1/16 × 33-1/16 (256 × 840 × 840) | | 10-1/16 × 33-1/16 × 33-1/16 (256 × 840 × 840) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 3 × (12 + 15 × 2) × (20 + 21 × 2) | | 3 × (12 + 15 × 2) × (20 + 21 × 2) | |
| | Face area | ft ² (m ²) | 4.59 (0.427) | | 4.59 (0.427) | |
| Fan | Model | | QTS48C15M | | QTS48C15M | |
| | Type | | Turbo fan | | Turbo fan | |
| | Motor output | W | 48 | | 48 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 742/618/477 (21.0/17.5/13.5) | | 777/618/477 (22.0/17.5/13.5) | |
| Sound pressure level (H/M/L) | | | 35.5/32.0/28.0 | | 36.0/32.0/28.0 | |
| Air filter | | | — | | — | |
| Weight | | | 63 (28.5) | | 63 (28.5) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | |
| | Wireless | | — | | — | |
| Decoration panels (option) | Model | | BYCQ125B-W1 / BYCQ125BGW1 | | BYCQ125B-W1 / BYCQ125BGW1 | |
| | Color | | Fresh white | | Fresh white | |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | |
| | Air filter | | Resin net (with mold resistance) | | Resin net (with mold resistance) | |
| | Weight | lbs (kg) | 12.2 (5.5) / 22.1 (10.0) | | 12.2 (5.5) / 22.1 (10.0) | |
| Outdoor unit | | | RZQ18TAVJUA | | RZQ24TAVJUA | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | | 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 44 × 19 | | 2 × 44 × 19 | |
| | Face area | ft ² (m ²) | 9.5 (0.88) | | 9.5 (0.88) | |
| Compressor | Model | | 2YC63TXD#A | | 2YC63TXD#A | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 1.9 | | 1.9 | |
| Fan | Model | | P51J11F | | P51J11F | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | | 2,682 (76) | |
| Weight | | | 172 (78) | | 172 (78) | |
| Sound pressure level (Cooling/Heating) | | | 58 / 61 | | 58 / 61 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | | | 14-100 | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.08 | | 1.08 | |
| Drawing No. | Specification | | C: 4D126344 | | C: 4D126344 | |
| | Sound (indoor) | | C: 4D087483B | | C: 4D087474B | |
| | Sound (outdoor) | | C: 4D101947D / C: 4D101948E | | C: 4D101947D / C: 4D101948E | |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

| Model name | Indoor unit | | FCQ30TAVJU | FCQ36TAVJU |
|--|------------------------|-----------------------------------|---|---|
| | Outdoor unit | | RZQ30TAVJUA | RZQ36TAVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 30,000 (8.8) | 36,000 (10.6) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 34,000 (10.0) | 40,000 (11.7) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 22,000 (6.4) | 21,000 (6.2) |
| SEER (Rated) | | | 17.2 | 17.6 |
| EER (Rated) | Btu/h-W | | 9.3 | 11.4 |
| HSPF (Rated) | | | 10.2 | 9.0 |
| Indoor unit | | | FCQ30TAVJU | FCQ36TAVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 11-23/32 × 33-1/16 × 33-1/16 (298 × 840 × 840) | 11-23/32 × 33-1/16 × 33-1/16 (298 × 840 × 840) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 3 × 18 × (20 + 21 × 2) | 3 × 18 × (20 + 21 × 2) |
| | Face area | ft ² (m ²) | 5.92 (0.550) | 5.92 (0.550) |
| Fan | Model | | QTS48C15M | QTS48C15M |
| | Type | | Turbo fan | Turbo fan |
| | Motor output | W | 106 | 106 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,112/918/671 (31.5/26.0/19.0) | 1,165/918/671 (33.0/26.0/19.0) |
| Sound pressure level (H/M/L) | | | 43.5/38.0/32.0 | 44.0/38.0/32.0 |
| Air filter | | | — | — |
| Weight | | lbs (kg) | 70 (31.5) | 70 (31.5) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | — | — |
| Decoration panels (option) | Model | | BYCQ125B-W1 / BYCQ125BGW1 | BYCQ125B-W1 / BYCQ125BGW1 |
| | Color | | Fresh white | Fresh white |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) |
| | Air filter | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| | Weight | lbs (kg) | 12.2 (5.5) / 22.1 (10.0) | 12.2 (5.5) / 22.1 (10.0) |
| Outdoor unit | | | RZQ30TAVJUA | RZQ36TAVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90FXD#A | 2YC90FXD#A |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level (Cooling/Heating) | | dB(A) | 57 / 59 | 57 / 59 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D126345 | C: 4D126345 |
| | Sound (indoor) | | C: 4D087479B | C: 4D087475B |
| | Sound (outdoor) | | C: 4D101949D / C: 4D101950E | C: 4D101949D / C: 4D101950E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-9.4°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

| Model name | Indoor unit | | FCQ42TAVJU | FCQ48TAVJU |
|--|------------------------|-----------------------------------|---|---|
| | Outdoor unit | | RZQ42TAVJUA | RZQ48TAVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 42,000 (12.3) | 48,000 (14.1) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 47,000 (13.8) | 54,000 (15.8) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 25,000 (7.3) | 28,000 (8.2) |
| SEER (Rated) | | | 17.0 | 17.0 |
| EER (Rated) | | | 10.3 | 9.0 |
| HSPF (Rated) | | | 8.6 | 9.3 |
| Indoor unit | | | FCQ42TAVJU | FCQ48TAVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | | 11-23/32 × 33-1/16 × 33-1/16 (298 × 840 × 840) | 11-23/32 × 33-1/16 × 33-1/16 (298 × 840 × 840) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 3 × 18 × (20 + 21 × 2) | 3 × 18 × (20 + 21 × 2) |
| | Face area | ft ² (m ²) | 5.92 (0.550) | 5.92 (0.550) |
| Fan | Model | | QTS48C15M | QTS48C15M |
| | Type | | Turbo fan | Turbo fan |
| | Motor output | W | 106 | 106 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,218/971/742 (34.5/27.5/21.0) | 1,218/971/742 (34.5/27.5/21.0) |
| Sound pressure level (H/M/L) | | | 45.0/40.0/35.0 | 45.0/40.0/35.0 |
| Air filter | | | — | — |
| Weight | | | 70 (31.5) | 70 (31.5) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | — | — |
| Decoration panels (option) | Model | | BYCQ125B-W1 / BYCQ125BGW1 | BYCQ125B-W1 / BYCQ125BGW1 |
| | Color | | Fresh white | Fresh white |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) |
| | Air filter | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| | Weight | lbs (kg) | 12.2 (5.5) / 22.1 (10.0) | 12.2 (5.5) / 22.1 (10.0) |
| Outdoor unit | | | RZQ42TAVJUA | RZQ48TAVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90FXD#A | 2YC90FXD#A |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | | 225 (102) | 225 (102) |
| Sound pressure level (Cooling/Heating) | | | 57 / 59 | 57 / 59 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D126345 | C: 4D126345 |
| | Sound (indoor) | | C: 4D087476B | C: 4D087476B |
| | Sound (outdoor) | | C: 4D101949D / C: 4D101950E | C: 4D101949D / C: 4D101950E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

| Model name | | Indoor unit | FCQ18AAVJU | FCQ24AAVJU |
|--|------------------------|---------------------------|--|--|
| | | Outdoor unit | RZQ18TBVJUA | RZQ24TBVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | 24,000 (7.0) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 20,000 (5.9) | 27,000 (7.9) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 12,300 (3.6) | 18,000 (5.3) |
| Indoor unit | | | FCQ18AAVJU | FCQ24AAVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 9-11/16 × 33-1/16 × 33-1/16 (246 × 840 × 840) | 9-11/16 × 33-1/16 × 33-1/16 (246 × 840 × 840) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Fan | Type | | Turbo fan | Turbo fan |
| | Motor output | W | 53 | 53 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 742/618/477 (21.0/17.5/13.5) | 777/618/477 (22.0/17.5/13.5) |
| Sound pressure level (H/M/L) | | | 38.0/32.0/28.0 | 38.0/32.0/28.0 |
| Air filter | | | — | — |
| Weight | | lbs (kg) | 51 (23) | 51 (23) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (accessory) | Wired | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | — | — |
| Decoration panels (accessory) | Model | | BYCQ54EEFU / BYCQ54EEGJU | BYCQ54EEFU / BYCQ54EEGJU |
| | Color | | Fresh white | Fresh white |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) |
| | Air filter | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| | Weight | lbs (kg) | 12 (5.5) / 22 (10.0) | 12 (5.5) / 22 (10.0) |
| Outdoor unit | | | RZQ18TBVJUA | RZQ24TBVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 39 × 37 × 12-5/8 (990 × 940 × 320) | 39 × 37 × 12-5/8 (990 × 940 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Compressor | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 1.9 | 1.9 |
| Fan | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 200 | 200 |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | 2,682 (76) |
| Weight | | lbs (kg) | 172 (78) | 172 (78) |
| Sound pressure level (Cooling/Heating) | | | 58 / 61 | 58 / 61 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse |
| Capacity step | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 164 (50) | 164 (50) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Type | | R-410A | R-410A |
| | Charge | lbs (kg) | 6.4 (2.9) | 6.4 (2.9) |
| Ref. oil | Type | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.08 | 1.08 |
| Drawing No. | Specification | | 4D143001B | 4D143001B |
| | Sound (indoor) | | 4D140998 | 4D140998 |
| | Sound (outdoor) | | 4D101947D / 4D101948E | 4D101947D / 4D101948E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

| Model name | | Indoor unit | FCQ30AAVJU | FCQ36AAVJU |
|--|------------------------|---------------------------|--|--|
| | | Outdoor unit | RZQ30TBVJUA | RZQ36TBVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 30,000 (8.8) | 36,000 (10.6) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 34,000 (10.0) | 40,000 (11.7) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 22,800 (6.7) | 26,200 (7.7) |
| Indoor unit | | | FCQ30AAVJU | FCQ36AAVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840) | 11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Fan | Type | | Turbo fan | Turbo fan |
| | Motor output | W | 106 | 106 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,059/882/671 (30.0/25.0/19.0) | 1,253/918/671 (35.5/26.0/19.0) |
| Sound pressure level (H/M/L) | | dB(A) | 42.0/37.0/32.0 | 47.0/38.0/32.0 |
| Air filter | | | — | — |
| Weight | | lbs (kg) | 58 (26) | 58 (26) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (accessory) | Wired | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | — | — |
| Decoration panels (accessory) | Model | | BYCQ54EEFU / BYCQ54EEGFU | BYCQ54EEFU / BYCQ54EEGFU |
| | Color | | Fresh white | Fresh white |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) |
| | Air filter | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| | Weight | lbs (kg) | 12 (5.5) / 22 (10.0) | 12 (5.5) / 22 (10.0) |
| Outdoor unit | | | RZQ30TBVJUA | RZQ36TBVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Compressor | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level (Cooling/Heating) | | dB(A) | 57 / 59 | 57 / 59 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse |
| Capacity step | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Type | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Type | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | 4D143002B | 4D143002B |
| | Sound (indoor) | | 4D140999 | 4D141000 |
| | Sound (outdoor) | | 4D101949D / 4D101950E | 4D101949D / 4D101950E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

| Model name | | Indoor unit | FCQ42AAVJU | FCQ48AAVJU |
|--|------------------------|---------------------------|--|--|
| | | Outdoor unit | RZQ42TBVJUA | RZQ48TBVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 42,000 (12.3) | 48,000 (14.1) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 47,000 (13.8) | 54,000 (15.8) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 31,200 (9.1) | 34,800 (10.2) |
| Indoor unit | | | FCQ42AAVJU | FCQ48AAVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840) | 11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Fan | Type | | Turbo fan | Turbo fan |
| | Motor output | W | 106 | 106 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,253/971/741 (35.5/27.5/21.0) | 1,253/971/741 (35.5/27.5/21.0) |
| Sound pressure level (H/M/L) | | dB(A) | 47.0/40.0/35.0 | 47.0/40.0/35.0 |
| Air filter | | | — | — |
| Weight | | lbs (kg) | 58 (26) | 58 (26) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (accessory) | Wired | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | — | — |
| Decoration panels (accessory) | Model | | BYCQ54EEFU / BYCQ54EEGFU | BYCQ54EEFU / BYCQ54EEGFU |
| | Color | | Fresh white | Fresh white |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) |
| | Air filter | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| | Weight | lbs (kg) | 12 (5.5) / 22 (10.0) | 12 (5.5) / 22 (10.0) |
| Outdoor unit | | | RZQ42TBVJUA | RZQ48TBVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Compressor | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level (Cooling/Heating) | | dB(A) | 57 / 59 | 57 / 59 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse |
| Capacity step | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Type | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Type | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | 4D143002B | 4D143002B |
| | Sound (indoor) | | 4D141001 | 4D141001 |
| | Sound (outdoor) | | 4D101949D / 4D101950E | 4D101949D / 4D101950E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

| Model name | | Indoor unit | FCQ18AAVJU | FCQ24AAVJU |
|--|------------------------|---------------------------|--|--|
| | | Outdoor unit | RZQ18TBVJUB | RZQ24TBVJUB |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | 24,000 (7.0) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 20,000 (5.9) | 27,000 (7.9) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 12,300 (3.6) | 18,000 (5.3) |
| Indoor unit | | | FCQ18AAVJU | FCQ24AAVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 9-11/16 × 33-1/16 × 33-1/16 (246 × 840 × 840) | 9-11/16 × 33-1/16 × 33-1/16 (246 × 840 × 840) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Fan | Type | | Turbo fan | Turbo fan |
| | Motor output | W | 53 | 53 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 742/618/477 (21.0/17.5/13.5) | 777/618/477 (22.0/17.5/13.5) |
| Sound pressure level (H/M/L) | | | 38.0/32.0/28.0 | 38.0/32.0/28.0 |
| Air filter | | | — | — |
| Weight | | lbs (kg) | 51 (23) | 51 (23) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (accessory) | Wired | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | — | — |
| Decoration panels (accessory) | Model | | BYCQ54EEFU / BYCQ54EEGFU | BYCQ54EEFU / BYCQ54EEGFU |
| | Color | | Fresh white | Fresh white |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) |
| | Air filter | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| | Weight | lbs (kg) | 12 (5.5) / 22 (10.0) | 12 (5.5) / 22 (10.0) |
| Outdoor unit | | | RZQ18TBVJUB | RZQ24TBVJUB |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 39 × 37 × 12-5/8 (990 × 940 × 320) | 39 × 37 × 12-5/8 (990 × 940 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Compressor | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 1.9 | 1.9 |
| Fan | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 200 | 200 |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | 2,682 (76) |
| Weight | | lbs (kg) | 172 (78) | 172 (78) |
| Sound pressure level (Cooling/Heating) | | | 58 / 61 | 58 / 61 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse |
| Capacity step | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 164 (50) | 164 (50) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Type | | R-410A | R-410A |
| | Charge | lbs (kg) | 6.4 (2.9) | 6.4 (2.9) |
| Ref. oil | Type | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.08 | 1.08 |
| Drawing No. | Specification | | 4D148300 | 4D148300 |
| | Sound (indoor) | | 4D140998 | 4D140998 |
| | Sound (outdoor) | | 4D101947D / 4D101948E | 4D101947D / 4D101948E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

| Model name | | Indoor unit | FCQ30AAVJU | FCQ36AAVJU |
|--|------------------------|---------------------------|--|--|
| | | Outdoor unit | RZQ30TBVJUB | RZQ36TBVJUB |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 30,000 (8.8) | 36,000 (10.6) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 34,000 (10.0) | 40,000 (11.7) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 22,800 (6.7) | 26,200 (7.7) |
| Indoor unit | | | FCQ30AAVJU | FCQ36AAVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840) | 11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Fan | Type | | Turbo fan | Turbo fan |
| | Motor output | W | 106 | 106 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,059/882/671 (30.0/25.0/19.0) | 1,253/918/671 (35.5/26.0/19.0) |
| Sound pressure level (H/M/L) | | dB(A) | 42.0/37.0/32.0 | 47.0/38.0/32.0 |
| Air filter | | | — | — |
| Weight | | lbs (kg) | 58 (26) | 58 (26) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (accessory) | Wired | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | — | — |
| Decoration panels (accessory) | Model | | BYCQ54EEFU / BYCQ54EEGFU | BYCQ54EEFU / BYCQ54EEGFU |
| | Color | | Fresh white | Fresh white |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) |
| | Air filter | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| | Weight | lbs (kg) | 12 (5.5) / 22 (10.0) | 12 (5.5) / 22 (10.0) |
| Outdoor unit | | | RZQ30TBVJUB | RZQ36TBVJUB |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Compressor | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level (Cooling/Heating) | | dB(A) | 57 / 59 | 57 / 59 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse |
| Capacity step | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Type | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Type | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | 4D148301 | 4D148301 |
| | Sound (indoor) | | 4D140999 | 4D141000 |
| | Sound (outdoor) | | 4D101949D / 4D101950E | 4D101949D / 4D101950E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

| Model name | | Indoor unit | FCQ42AAVJU | FCQ48AAVJU |
|--|------------------------|---------------------------|--|--|
| | | Outdoor unit | RZQ42TBVJUB | RZQ48TBVJUB |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 42,000 (12.3) | 48,000 (14.1) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 47,000 (13.8) | 54,000 (15.8) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 31,200 (9.1) | 34,800 (10.2) |
| Indoor unit | | | FCQ42AAVJU | FCQ48AAVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840) | 11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Type | | Turbo fan | Turbo fan |
| Fan | Motor output | W | 106 | 106 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,253/971/741 (35.5/27.5/21.0) | 1,253/971/741 (35.5/27.5/21.0) |
| Sound pressure level (H/M/L) | | dB(A) | 47.0/40.0/35.0 | 47.0/40.0/35.0 |
| Air filter | | | — | — |
| Weight | | lbs (kg) | 58 (26) | 58 (26) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (accessory) | Wired | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | — | — |
| Decoration panels (accessory) | Model | | BYCQ54EEFU / BYCQ54EEGFU | BYCQ54EEFU / BYCQ54EEGFU |
| | Color | | Fresh white | Fresh white |
| | Dimensions: (H×W×D) | in (mm) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) | 2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950) |
| | Air filter | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| | Weight | lbs (kg) | 12 (5.5) / 22 (10.0) | 12 (5.5) / 22 (10.0) |
| Outdoor unit | | | RZQ42TBVJUB | RZQ48TBVJUB |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| Compressor | Motor output | kW | 3.5 | 3.5 |
| | Type | | Propeller fan | Propeller fan |
| Fan | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level (Cooling/Heating) | | dB(A) | 57 / 59 | 57 / 59 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse |
| Capacity step | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Type | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Type | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | 4D148301 | 4D148301 |
| | Sound (indoor) | | 4D141001 | 4D141001 |
| | Sound (outdoor) | | 4D101949D / 4D101950E | 4D101949D / 4D101950E |

Notes:

★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
 ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
 ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
 ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

3.2.2 Ceiling Suspended Type

| Model name | Indoor unit | | FHQ18PVJU | | FHQ24PVJU | |
|---|------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | RZQ18TAVJU | | RZQ24TAVJU | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | | 24,000 (7.0) | |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 20,000 (5.9) | | 27,000 (7.9) | |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 12,000 (3.5) | | 18,000 (5.3) | |
| SEER (Rated) | | | 16.3 | | 16.6 | |
| EER (Rated) | Btu/h-W | | 12.9 | | 11.3 | |
| HSPF (Rated) | | | 9.1 | | 9.3 | |
| Indoor unit | | | FHQ18PVJU | | FHQ24PVJU | |
| Casing color | | | White (10Y9/0.5) | | White (10Y9/0.5) | |
| Dimensions: (H×W×D) | | | in (mm) 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) | | 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 12 × 15 + 2 × 10 × 15 | | 2 × 12 × 15 + 2 × 10 × 15 | |
| | Face area | ft ² (m ²) | 3.66 (0.34) + 2.95 (0.27) | | 3.66 (0.34) + 2.95 (0.27) | |
| Fan | Model | | — | | — | |
| | Type | | Sirocco fan | | Sirocco fan | |
| | Motor output | W | 130 | | 130 | |
| | Airflow rate (H/L) | cfm (m ³ /min) | 790/670 (22.4/19.0) | | 790/670 (22.4/19.0) | |
| Air filter | | | Resin net (with mold resistance) | | Resin net (with mold resistance) | |
| Weight | | | lbs (kg) 90 (19.8) | | 90 (19.8) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) | | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) | |
| Remote controller (option) | Wired | | BRC1E73 | | BRC1E73 | |
| | Wireless | | BRC7E83 | | BRC7E83 | |
| Outdoor unit | | | RZQ18TAVJU | | RZQ24TAVJU | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | | in (mm) 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 44 × 19 | | 2 × 44 × 19 | |
| | Face area | ft ² (m ²) | 9.5 (0.88) | | 9.5 (0.88) | |
| Compressor | Model | | 2YC63ABXDD | | 2YC63ABXDD | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 1.9 | | 1.9 | |
| Fan | Model | | P51J11F | | P51J11F | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | | 2,682 (76) | |
| Weight | | | lbs (kg) 172 (78) | | 172 (78) | |
| Sound pressure level (Cooling/Heating) | | | dB(A) 58 / 61 | | 58 / 61 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | | | % | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.08 | | 1.08 | |
| Drawing No. | Specification | | C: 4D115557A | | C: 4D115557A | |
| | Sound (outdoor) | | C: 4D101947D / C: 4D101948E | | C: 4D101947D / C: 4D101948E | |
| Notes: | | | | | | |
| ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m). | | | | | | |
| ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m). | | | | | | |
| ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m). | | | | | | |
| ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat. | | | | | | |

| Model name | | Indoor unit | FHQ30PVJU | FHQ36MVJU |
|--|------------------------|-----------------------------------|---|---|
| | | Outdoor unit | RZQ30TAVJU | RZQ36TAVJU |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 30,000 (8.8) | 36,000 (10.6) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 34,000 (10.0) | 40,000 (11.7) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 24,000 (7.0) | 22,000 (6.4) |
| SEER (Rated) | | | 16.0 | 14.0 |
| EER (Rated) | | Btu/h-W | 10.5 | 9.5 |
| HSPF (Rated) | | | 8.4 | 8.2 |
| Indoor unit | | | FHQ30PVJU | FHQ36MVJU |
| Casing color | | | White (10Y9/0.5) | White (10Y9/0.5) |
| Dimensions: (H×W×D) | | in (mm) | 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) | 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 12 × 15 + 2 × 10 × 15 | 2 × 12 × 15 + 2 × 10 × 15 |
| | Face area | ft ² (m ²) | 3.66 (0.34) + 2.95 (0.27) | 3.66 (0.34) + 2.95 (0.27) |
| Fan | Model | | — | — |
| | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 130 | 130 |
| | Airflow rate (H/L) | cfm (m ³ /min) | 790/670 (22.4/19.0) | 830/670 (23.5/19.0) |
| Air filter | | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| Weight | | lbs (kg) | 90 (19.8) | 90 (19.8) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) |
| Remote controller (option) | Wired | | BRC1E73 | BRC1E73 |
| | Wireless | | BRC7E83 | BRC7E83 |
| Outdoor unit | | | RZQ30TAVJU | RZQ36TAVJU |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90GXD#D | 2YC90GXD#D |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level (Cooling/Heating) | | dB(A) | 57 / 59 | 57 / 59 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D115559B | C: 4D115559B |
| | Sound (outdoor) | | C: 4D101949D / C: 4D101950E | C: 4D101949D / C: 4D101950E |

Notes:
★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

| Model name | | Indoor unit | | FHQ42MVJU | |
|---|------------------------|-----------------------------------|--|---|--|
| | | Outdoor unit | | RZQ42TAVJU | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | Btu/h (kW) | 40,500 (11.9) | | | |
| ★2 ★4 Heating capacity | Btu/h (kW) | 40,000 (11.7) | | | |
| ★3 ★4 Heating capacity | Btu/h (kW) | 23,400 (6.9) | | | |
| SEER (Rated) | | | | 14.0 | |
| EER (Rated) | | | | 8.8 | |
| HSPF (Rated) | | | | 8.2 | |
| Indoor unit | | | | FHQ42MVJU | |
| Casing color | | | | White (10Y9/0.5) | |
| Dimensions: (H×W×D) | | in (mm) | | 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) | |
| Coil | Type | Cross fin coil | | | |
| | Rows×Stages×FPI | 2 × 12 × 15 + 2 × 10 × 15 | | | |
| | Face area | ft ² (m ²) | | 3.66 (0.34) + 2.95 (0.27) | |
| Fan | Model | — | | | |
| | Type | Sirocco fan | | | |
| | Motor output | W | | 130 | |
| | Airflow rate (H/L) | cfm (m ³ /min) | | 850 / 700 (24.1 / 19.8) | |
| Air filter | | | | Resin net (with mold resistance) | |
| Weight | | lbs (kg) | | 90 (19.8) | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) | |
| Remote controller (option) | Wired | BRC1E73 | | | |
| | Wireless | BRC7E83 | | | |
| Outdoor unit | | | | RZQ42TAVJU | |
| Casing color | | | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | Cross fin coil | | | |
| | Rows×Stages×FPI | 2 × 60 × 19 | | | |
| | Face area | ft ² (m ²) | | 12.2 (1.134) | |
| Compressor | Model | 2YC90GXD#D | | | |
| | Type | Hermetically sealed swing type | | | |
| | Motor output | kW | | 3.5 | |
| Fan | Model | P47N | | | |
| | Type | Propeller fan | | | |
| | Motor output | W | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | | 3,741 (106) | |
| Weight | | lbs (kg) | | 225 (102) | |
| Sound pressure level (Cooling/Heating) | | dB(A) | | 57 / 59 | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | | % | | 14-100 | |
| Refrigerant control | | | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | |
| | Max. length | ft (m) | | 230 (70) | |
| | Max. height difference | ft (m) | | 98 (30) | |
| Refrigerant | Model | R-410A | | | |
| | Charge | lbs (kg) | | 7.9 (3.6) | |
| Ref. oil | Model | DAPHNE FVC50K | | | |
| | Charge | L | | 1.52 | |
| Drawing No. | Specification | C: 4D115559B | | | |
| | Sound (outdoor) | C: 4D101949D / C: 4D101950E | | | |
| Notes: | | | | | |
| ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m) | | | | | |
| ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m). | | | | | |
| ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m). | | | | | |
| ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat | | | | | |

| Model name | | Indoor unit | FHQ18PVJU | FHQ24PVJU |
|--|------------------------|-----------------------------------|---|---|
| | | Outdoor unit | RZQ18TAVJUA | RZQ24TAVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | 24,000 (7.0) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 20,000 (5.9) | 27,000 (7.9) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 12,000 (3.5) | 18,000 (5.3) |
| SEER (Rated) | | | 16.3 | 16.6 |
| EER (Rated) | | Btu/h-W | 12.9 | 11.3 |
| HSPF (Rated) | | | 9.1 | 9.3 |
| Indoor unit | | | FHQ18PVJU | FHQ24PVJU |
| Casing color | | | White (10Y9/0.5) | White (10Y9/0.5) |
| Dimensions: (H×W×D) | | in (mm) | 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) | 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 12 × 15 + 2 × 10 × 15 | 2 × 12 × 15 + 2 × 10 × 15 |
| | Face area | ft ² (m ²) | 3.66 (0.34) + 2.95 (0.27) | 3.66 (0.34) + 2.95 (0.27) |
| Fan | Model | | — | — |
| | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 130 | 130 |
| | Airflow rate (H/L) | cfm (m ³ /min) | 790/670 (22.4/19.0) | 790/670 (22.4/19.0) |
| Air filter | | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| Weight | | lbs (kg) | 90 (19.8) | 90 (19.8) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) |
| Remote controller (option) | Wired | | BRC1E73 | BRC1E73 |
| | Wireless | | BRC7E83 | BRC7E83 |
| Outdoor unit | | | RZQ18TAVJUA | RZQ24TAVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 39 × 37 × 12-5/8 (990 × 940 × 320) | 39 × 37 × 12-5/8 (990 × 940 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 44 × 19 | 2 × 44 × 19 |
| | Face area | ft ² (m ²) | 9.5 (0.88) | 9.5 (0.88) |
| Compressor | Model | | 2YC63TXD#A | 2YC63TXD#A |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 1.9 | 1.9 |
| Fan | Model | | P51J11F | P51J11F |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 200 | 200 |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | 2,682 (76) |
| Weight | | lbs (kg) | 172 (78) | 172 (78) |
| Sound pressure level (Cooling/Heating) | | dB(A) | 58 / 61 | 58 / 61 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 164 (50) | 164 (50) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 6.4 (2.9) | 6.4 (2.9) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.08 | 1.08 |
| Drawing No. | Specification | | C: 4D126354 | C: 4D126354 |
| | Sound (outdoor) | | C: 4D101947D / C: 4D101948E | C: 4D101947D / C: 4D101948E |

Notes:
★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

| Model name | | Indoor unit | FHQ30PVJU | FHQ36MVJU |
|--|------------------------|-----------------------------------|---|---|
| | | Outdoor unit | RZQ30TAVJUA | RZQ36TAVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 30,000 (8.8) | 36,000 (10.6) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 34,000 (10.0) | 40,000 (11.7) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 24,000 (7.0) | 22,000 (6.4) |
| SEER (Rated) | | | 16.0 | 14.0 |
| EER (Rated) | | Btu/h-W | 10.5 | 9.5 |
| HSPF (Rated) | | | 8.4 | 8.2 |
| Indoor unit | | | FHQ30PVJU | FHQ36MVJU |
| Casing color | | | White (10Y9/0.5) | White (10Y9/0.5) |
| Dimensions: (H×W×D) | | in (mm) | 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) | 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 12 × 15 + 2 × 10 × 15 | 2 × 12 × 15 + 2 × 10 × 15 |
| | Face area | ft ² (m ²) | 3.66 (0.34) + 2.95 (0.27) | 3.66 (0.34) + 2.95 (0.27) |
| Fan | Model | | — | — |
| | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 130 | 130 |
| | Airflow rate (H/L) | cfm (m ³ /min) | 790/670 (22.4/19.0) | 830/670 (23.5/19.0) |
| Air filter | | | Resin net (with mold resistance) | Resin net (with mold resistance) |
| Weight | | lbs (kg) | 90 (19.8) | 90 (19.8) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) |
| Remote controller (option) | Wired | | BRC1E73 | BRC1E73 |
| | Wireless | | BRC7E83 | BRC7E83 |
| Outdoor unit | | | RZQ30TAVJUA | RZQ36TAVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90FXD#A | 2YC90FXD#A |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level (Cooling/Heating) | | dB(A) | 57 / 59 | 57 / 59 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D126356 | C: 4D126356 |
| | Sound (outdoor) | | C: 4D101949D / C: 4D101950E | C: 4D101949D / C: 4D101950E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

| Model name | | Indoor unit | | FHQ42MVJU | |
|---|------------------------|-----------------------------------|--|---|--|
| | | Outdoor unit | | RZQ42TAVJUA | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | Btu/h (kW) | 40,500 (11.9) | | | |
| ★2 ★4 Heating capacity | Btu/h (kW) | 40,000 (11.7) | | | |
| ★3 ★4 Heating capacity | Btu/h (kW) | 23,400 (6.9) | | | |
| SEER (Rated) | | | | 14.0 | |
| EER (Rated) | | | | 8.8 | |
| HSPF (Rated) | | | | 8.2 | |
| Indoor unit | | | | FHQ42MVJU | |
| Casing color | | | | White (10Y9/0.5) | |
| Dimensions: (H×W×D) | | in (mm) | | 7-11/16 × 62-5/8 × 26-3/4 (195 × 1,590 × 680) | |
| Coil | Type | Cross fin coil | | | |
| | Rows×Stages×FPI | 2 × 12 × 15 + 2 × 10 × 15 | | | |
| | Face area | ft ² (m ²) | | 3.66 (0.34) + 2.95 (0.27) | |
| Fan | Model | — | | | |
| | Type | Sirocco fan | | | |
| | Motor output | W | | 130 | |
| | Airflow rate (H/L) | cfm (m ³ /min) | | 850 / 700 (24.1 / 19.8) | |
| Air filter | | | | Resin net (with mold resistance) | |
| Weight | | | | lbs (kg) | |
| | | | | 90 (19.8) | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | VP20 (External dia. 1 (26), internal dia. 3/4 (19.1)) | |
| Remote controller (option) | Wired | BRC1E73 | | | |
| | Wireless | BRC7E83 | | | |
| Outdoor unit | | | | RZQ42TAVJUA | |
| Casing color | | | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | Cross fin coil | | | |
| | Rows×Stages×FPI | 2 × 60 × 19 | | | |
| | Face area | ft ² (m ²) | | 12.2 (1.134) | |
| Compressor | Model | 2YC90FXD#A | | | |
| | Type | Hermetically sealed swing type | | | |
| | Motor output | kW | | 3.5 | |
| Fan | Model | P47N | | | |
| | Type | Propeller fan | | | |
| | Motor output | W | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | | 3,741 (106) | |
| Weight | | | | lbs (kg) | |
| | | | | 225 (102) | |
| Sound pressure level (Cooling/Heating) | | | | dB(A) | |
| | | | | 57 / 59 | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | | | | % | |
| | | | | 14-100 | |
| Refrigerant control | | | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | |
| | Max. length | ft (m) | | 230 (70) | |
| | Max. height difference | ft (m) | | 98 (30) | |
| Refrigerant | Model | R-410A | | | |
| | Charge | lbs (kg) | | 7.9 (3.6) | |
| Ref. oil | Model | DAPHNE FVC50K | | | |
| | Charge | L | | 1.52 | |
| Drawing No. | Specification | C: 4D126356 | | | |
| | Sound (outdoor) | C: 4D101949D / C: 4D101950E | | | |
| Notes: | | | | | |
| ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m) | | | | | |
| ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m). | | | | | |
| ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m). | | | | | |
| ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat | | | | | |

3.2.3 Wall Mounted Type

| Model name | Indoor unit | | FAQ18TAVJU | | FAQ24TAVJU | |
|--|------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | RZQ18TAVJU | | RZQ24TAVJU | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | | 24,000 (7.0) | |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 20,000 (5.9) | | 27,000 (7.9) | |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 13,000 (3.8) | | 20,000 (5.9) | |
| SEER (Rated) | | | 17.0 | | 17.6 | |
| EER (Rated) | Btu/h-W | | 11.9 | | 10.2 | |
| HSPF (Rated) | | | 8.2 | | 8.4 | |
| Indoor unit | | | FAQ18TAVJU | | FAQ24TAVJU | |
| Casing color | | | White (3.0Y8.5/0.5) | | White (3.0Y8.5/0.5) | |
| Dimensions: (H×W×D) | in (mm) | | 11-3/8 × 41-3/8 × 9-1/4 (290 × 1,050 × 238) | | 11-3/8 × 41-3/8 × 9-1/4 (290 × 1,050 × 238) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 14 × 7 | | 2 × 14 × 7 | |
| | Face area | ft ² (m ²) | 1.73 (0.16) | | 1.73 (0.16) | |
| Fan | Model | | QCL9686M | | QCL9686M | |
| | Type | | Cross flow fan | | Cross flow fan | |
| | Motor output | W | 43 | | 43 | |
| | Airflow rate (H/L) | cfm (m ³ /min) | 500/400 (14/11) | | 635/470 (18/13) | |
| Sound pressure level (H/L) | dB(A) | | 43.0/37.0 | | 47.0/41.0 | |
| Air filter | | | Resin net (washable) | | Resin net (washable) | |
| Weight | lbs (kg) | | 31 (14) | | 31 (14) | |
| Connecting Pipes | Liquid Pipe | in (mm) | ϕ3/8 (ϕ9.5) (Flare connection) | | ϕ3/8 (ϕ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | ϕ5/8 (ϕ15.9) (Flare connection) | | ϕ5/8 (ϕ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | VP13 (External dia. 11/16 (18), internal dia. 1/2 (13)) | | VP13 (External dia. 11/16 (18), internal dia. 1/2 (13)) | |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | |
| | Wireless | | BRC7E818 | | BRC7E818 | |
| Outdoor unit | | | RZQ18TAVJU | | RZQ24TAVJU | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 44 × 19 | | 2 × 44 × 19 | |
| | Face area | ft ² (m ²) | 9.5 (0.88) | | 9.5 (0.88) | |
| Compressor | Model | | 2YC63ABXDD | | 2YC63ABXDD | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 1.9 | | 1.9 | |
| Fan | Model | | P51J11F | | P51J11F | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | | 2,682 (76) | |
| Weight | lbs (kg) | | 172 (78) | | 172 (78) | |
| Sound pressure level (Cooling/Heating) | dB(A) | | 58 / 61 | | 58 / 61 | |
| Connecting Pipes | Liquid Pipe | in (mm) | ϕ3/8 (ϕ9.5) (Flare connection) | | ϕ3/8 (ϕ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | ϕ5/8 (ϕ15.9) (Flare connection) | | ϕ5/8 (ϕ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | ϕ1 (ϕ26) (Hole) | | ϕ1 (ϕ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.08 | | 1.08 | |
| Drawing No. | Specification | | C: 4D115551 | | C: 4D115551 | |
| | Sound (indoor) | | C: 4D075583A | | C: 4D075584A | |
| | Sound (outdoor) | | C: 4D101947D / C: 4D101948E | | C: 4D101947D / C: 4D101948E | |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

| Model name | Indoor unit | | FAQ18TAVJU | FAQ24TAVJU |
|--|------------------------|-----------------------------------|---|---|
| | Outdoor unit | | RZQ18TAVJUA | RZQ24TAVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | 24,000 (7.0) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 20,000 (5.9) | 27,000 (7.9) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 13,000 (3.8) | 20,000 (5.9) |
| SEER (Rated) | | | 17.0 | 17.6 |
| EER (Rated) | | | 11.9 | 10.2 |
| HSPF (Rated) | | | 8.2 | 8.4 |
| Indoor unit | | | FAQ18TAVJU | FAQ24TAVJU |
| Casing color | | | White (3.0Y8.5/0.5) | White (3.0Y8.5/0.5) |
| Dimensions: (H×W×D) | | | 11-3/8 × 41-3/8 × 9-1/4 (290 × 1,050 × 238) | 11-3/8 × 41-3/8 × 9-1/4 (290 × 1,050 × 238) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 14 × 7 | 2 × 14 × 7 |
| | Face area | ft ² (m ²) | 1.73 (0.16) | 1.73 (0.16) |
| Fan | Model | | QCL9686M | QCL9686M |
| | Type | | Cross flow fan | Cross flow fan |
| | Motor output | W | 43 | 43 |
| | Airflow rate (H/L) | cfm (m ³ /min) | 500/400 (14/11) | 635/470 (18/13) |
| Sound pressure level (H/L) | | | 43.0/37.0 | 47.0/41.0 |
| Air filter | | | Resin net (washable) | Resin net (washable) |
| Weight | | | 31 (14) | 31 (14) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP13 (External dia. 11/16 (18), internal dia. 1/2 (13)) | VP13 (External dia. 11/16 (18), internal dia. 1/2 (13)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | BRC7E818 | BRC7E818 |
| Outdoor unit | | | RZQ18TAVJUA | RZQ24TAVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | | 39 × 37 × 12-5/8 (990 × 940 × 320) | 39 × 37 × 12-5/8 (990 × 940 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 44 × 19 | 2 × 44 × 19 |
| | Face area | ft ² (m ²) | 9.5 (0.88) | 9.5 (0.88) |
| Compressor | Model | | 2YC63TXD#A | 2YC63TXD#A |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 1.9 | 1.9 |
| Fan | Model | | P51J11F | P51J11F |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 200 | 200 |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | 2,682 (76) |
| Weight | | | 172 (78) | 172 (78) |
| Sound pressure level (Cooling/Heating) | | | 58 / 61 | 58 / 61 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 164 (50) | 164 (50) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 6.4 (2.9) | 6.4 (2.9) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.08 | 1.08 |
| Drawing No. | Specification | | C: 4D126346 | C: 4D126346 |
| | Sound (indoor) | | C: 4D075583A | C: 4D075584A |
| | Sound (outdoor) | | C: 4D101947D / C: 4D101948E | C: 4D101947D / C: 4D101948E |

Notes:
★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

| Model name | | Indoor unit | FAQ18TAVJU | FAQ24TAVJU |
|--|------------------------|---------------------------|--|--|
| | | Outdoor unit | RZQ18TBVJUA | RZQ24TBVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | 24,000 (7.0) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 20,000 (5.9) | 27,000 (7.9) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 13,800 (4.0) | 20,000 (5.9) |
| Indoor unit | | | FAQ18TAVJU | FAQ24TAVJU |
| Casing color | | | White (3.0Y8.5/0.5) | White (3.0Y8.5/0.5) |
| Dimensions: (H×W×D) | | in (mm) | 11-3/8 × 41-3/8 × 9-1/4 (290 × 1,050 × 238) | 11-3/8 × 41-3/8 × 9-1/4 (290 × 1,050 × 238) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Type | | Cross flow fan | Cross flow fan |
| Fan | Motor output | W | 43 | 43 |
| | Airflow rate (H/L) | cfm (m ³ /min) | 500/400 (14/11) | 635/470 (18/13) |
| Sound pressure level (H/L) | | dB(A) | 43.0/37.0 | 47.0/41.0 |
| Air filter | | | Resin net (washable) | Resin net (washable) |
| Weight | | lbs (kg) | 31 (14) | 31 (14) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP13 (External dia. 11/16 (18), internal dia. 1/2 (13)) | VP13 (External dia. 11/16 (18), internal dia. 1/2 (13)) |
| Remote controller (accessory) | Wired | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | BRC7E818 | BRC7E818 |
| Outdoor unit | | | RZQ18TBVJUA | RZQ24TBVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 39 × 37 × 12-5/8 (990 × 940 × 320) | 39 × 37 × 12-5/8 (990 × 940 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| Compressor | Motor output | kW | 1.9 | 1.9 |
| | Type | | Propeller fan | Propeller fan |
| Fan | Motor output | W | 200 | 200 |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | 2,682 (76) |
| Weight | | lbs (kg) | 172 (78) | 172 (78) |
| Sound pressure level (Cooling/Heating) | | dB(A) | 58 / 61 | 58 / 61 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse |
| Capacity step | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 164 (50) | 164 (50) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Type | | R-410A | R-410A |
| | Charge | lbs (kg) | 6.4 (2.9) | 6.4 (2.9) |
| Ref. oil | Type | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.08 | 1.08 |
| Drawing No. | Specification | | 4D143005A | 4D143005A |
| | Sound (indoor) | | 4D075583A | 4D075584A |
| | Sound (outdoor) | | 4D101947D / 4D101948E | 4D101947D / 4D101948E |
| Notes: | | | | |
| ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m). | | | | |
| ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m). | | | | |
| ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m). | | | | |
| ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat. | | | | |

| Model name | | Indoor unit | FAQ18TAVJU | FAQ24TAVJU |
|--|------------------------|---------------------------|--|--|
| | | Outdoor unit | RZQ18TBVJUB | RZQ24TBVJUB |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | 24,000 (7.0) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 20,000 (5.9) | 27,000 (7.9) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 13,800 (4.0) | 20,000 (5.9) |
| Indoor unit | | | FAQ18TAVJU | FAQ24TAVJU |
| Casing color | | | White (3.0Y8.5/0.5) | White (3.0Y8.5/0.5) |
| Dimensions: (H×W×D) | | in (mm) | 11-3/8 × 41-3/8 × 9-1/4 (290 × 1,050 × 238) | 11-3/8 × 41-3/8 × 9-1/4 (290 × 1,050 × 238) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Type | | Cross flow fan | Cross flow fan |
| Fan | Motor output | W | 43 | 43 |
| | Airflow rate (H/L) | cfm (m ³ /min) | 500/400 (14/11) | 635/470 (18/13) |
| Sound pressure level (H/L) | | dB(A) | 43.0/37.0 | 47.0/41.0 |
| Air filter | | | Resin net (washable) | Resin net (washable) |
| Weight | | lbs (kg) | 31 (14) | 31 (14) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP13 (External dia. 11/16 (18), internal dia. 1/2 (13)) | VP13 (External dia. 11/16 (18), internal dia. 1/2 (13)) |
| Remote controller (accessory) | Wired | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | BRC7E818 | BRC7E818 |
| Outdoor unit | | | RZQ18TBVJUB | RZQ24TBVJUB |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 39 × 37 × 12-5/8 (990 × 940 × 320) | 39 × 37 × 12-5/8 (990 × 940 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| Compressor | Motor output | kW | 1.9 | 1.9 |
| | Type | | Propeller fan | Propeller fan |
| Fan | Motor output | W | 200 | 200 |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | 2,682 (76) |
| Weight | | lbs (kg) | 172 (78) | 172 (78) |
| Sound pressure level (Cooling/Heating) | | dB(A) | 58 / 61 | 58 / 61 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse |
| Capacity step | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 164 (50) | 164 (50) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Type | | R-410A | R-410A |
| | Charge | lbs (kg) | 6.4 (2.9) | 6.4 (2.9) |
| Ref. oil | Type | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.08 | 1.08 |
| Drawing No. | Specification | | 4D148304 | 4D148304 |
| | Sound (indoor) | | 4D075583A | 4D075584A |
| | Sound (outdoor) | | 4D101947D / 4D101948E | 4D101947D / 4D101948E |

Notes:
 ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
 ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
 ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
 ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

3.2.4 HSP Ceiling Mounted Duct Type

| Model name | Indoor unit | | FBQ18PVJU | | FBQ24PVJU | |
|--|--------------------------|-----------------------------------|---|--------------------|---|--|
| | Outdoor unit | | RZQ18TAVJU | | RZQ24TAVJU | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | | 24,000 (7.0) | |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 20,000 (5.9) | | 27,000 (7.9) | |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 12,000 (3.5) | | 18,000 (5.3) | |
| SEER (Rated) | | | 16.7 | | 16.5 | |
| EER (Rated) | Btu/h-W | | 13.0 | | 12.0 | |
| HSPF (Rated) | | | 9.5 | | 9.7 | |
| Indoor unit | | | FBQ18PVJU | | FBQ24PVJU | |
| Casing color | | | Galvanized steel plate | | Galvanized steel plate | |
| Dimensions: (H×W×D) | | | in (mm) | | 11-13/16 × 39-3/8 × 27-9/16 (300 × 1,000 × 700) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 3 × 16 × 15 | | 3 × 16 × 15 | |
| | Face area | ft ² (m ²) | 2.68 (0.249) | | 2.68 (0.249) | |
| Fan | Model | | — | | — | |
| | Type | | Sirocco fan | | Sirocco fan | |
| | Motor output | W | 350 | | 350 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 635/582/529 (18.0/16.5/15.0) | | 688/618/565 (19.5/17.5/16.0) | |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 | | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 | |
| Sound pressure level (HH/H/L) | dB(A) | 41.0/39.0/37.0 | | 42.0/40.0/38.0 | | |
| Air filter | | | —★6 | | —★6 | |
| Weight | lbs (kg) | 80 (36) | | 80 (36) | | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | |
| Remote controller (option) | Wired | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | | |
| | Wireless | BRC4C82, BRC082A43 | | BRC4C82, BRC082A43 | | |
| Outdoor unit | | | RZQ18TAVJU | | RZQ24TAVJU | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 44 × 19 | | 2 × 44 × 19 | |
| | Face area | ft ² (m ²) | 9.5 (0.88) | | 9.5 (0.88) | |
| Compressor | Model | | 2YC63ABXDD | | 2YC63ABXDD | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 1.9 | | 1.9 | |
| Fan | Model | | P51J11F | | P51J11F | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | | 2,682 (76) | |
| Weight | lbs (kg) | 172 (78) | | 172 (78) | | |
| Sound pressure level (Cooling/Heating) | dB(A) | 58 / 61 | | 58 / 61 | | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | % | 14-100 | | 14-100 | | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.08 | | 1.08 | |
| Drawing No. | Specification | | C: 4D115553 | | C: 4D115553 | |
| | Sound (indoor) | | C: 4D075278 | | C: 4D075279 | |
| | Sound (outdoor) | | C: 4D101947D / C: 4D101948E | | C: 4D101947D / C: 4D101948E | |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★5 External static pressure is changeable in 14 stages within the < > range by remote controller.
- ★6 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | FBQ30PVJU | FBQ36PVJU |
|--|--------------------------|-----------------------------------|---|---|
| | | Outdoor unit | RZQ30TAVJU | RZQ36TAVJU |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 30,000 (8.8) | 36,000 (10.6) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 34,000 (10.0) | 40,000 (11.7) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 22,000 (6.4) | 21,000 (6.2) |
| SEER (Rated) | | | 16.0 | 17.5 |
| EER (Rated) | Btu/h-W | | 10.5 | 11.1 |
| HSPF (Rated) | | | 9.2 | 9.1 |
| Indoor unit | | | FBQ30PVJU | FBQ36PVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 11-13/16 × 39-3/8 × 27-9/16 (300 × 1,000 × 700) | 11-13/16 × 55-1/8 × 27-9/16 (300 × 1,400 × 700) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 3 × 16 × 15 | 3 × 16 × 15 |
| | Face area | ft ² (m ²) | 2.68 (0.249) | 4.12 (0.383) |
| Fan | Model | | — | — |
| | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 350 | 350 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 882/794/706 (25.0/22.0/20.0) | 1,130/953/812 (32.0/27.0/23.0) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 |
| Sound pressure level (HH/H/L) | dB(A) | | 43.0/41.0/39.0 | 43.0/41.0/39.0 |
| Air filter | | | —★6 | —★6 |
| Weight | lbs (kg) | | 80 (36) | 102 (46) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | BRC4C82, BRC082A43 | BRC4C82, BRC082A43 |
| Outdoor unit | | | RZQ30TAVJU | RZQ36TAVJU |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90GXD#D | 2YC90GXD#D |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | lbs (kg) | | 225 (102) | 225 (102) |
| Sound pressure level (Cooling/Heating) | dB(A) | | 57 / 59 | 57 / 59 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | % | | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D115555A | C: 4D115555A |
| | Sound (indoor) | | C: 4D075280 | C: 4D075281 |
| | Sound (outdoor) | | C: 4D101949D / C: 4D101950E | C: 4D101949D / C: 4D101950E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★5 External static pressure is changeable in 14 stages within the < > range by remote controller.
- ★6 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | FBQ42PVJU | FBQ48PVJU |
|--|--------------------------|-----------------------------------|---|---|
| | | Outdoor unit | RZQ42TAVJU | RZQ48TAVJU |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 40,500 (11.9) | 48,000 (14.1) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 47,000 (13.8) | 54,000 (15.8) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 25,000 (7.3) | 28,000 (8.2) |
| SEER (Rated) | | | 16.0 | 14.0 |
| EER (Rated) | | Btu/h-W | 10.1 | 8.6 |
| HSPF (Rated) | | | 8.8 | 8.4 |
| Indoor unit | | | FBQ42PVJU | FBQ48PVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 11-13/16 × 55-1/8 × 27-9/16 (300 × 1,400 × 700) | 11-13/16 × 55-1/8 × 27-9/16 (300 × 1,400 × 700) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 3 × 16 × 15 | 3 × 16 × 15 |
| | Face area | ft ² (m ²) | 4.12 (0.383) | 4.12 (0.383) |
| Fan | Model | | — | — |
| | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 350 | 350 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,400/1,165/988 (39.6/33.0/28.0) | 1,400/1,165/988 (39.6/33.0/28.0) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 |
| Sound pressure level (HH/H/L) | | dB(A) | 44.0/42.0/40.0 | 44.0/42.0/40.0 |
| Air filter | | | —★6 | —★6 |
| Weight | | lbs (kg) | 102 (46) | 102 (46) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | BRC4C82, BRC082A43 | BRC4C82, BRC082A43 |
| Outdoor unit | | | RZQ42TAVJU | RZQ48TAVJU |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90GXD#D | 2YC90GXD#D |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level (Cooling/Heating) | | dB(A) | 57 / 59 | 57 / 59 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D115555A | C: 4D115555A |
| | Sound (indoor) | | C: 4D075282A | C: 4D075282A |
| | Sound (outdoor) | | C: 4D101949D / C: 4D101950E | C: 4D101949D / C: 4D101950E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 External static pressure is changeable in 14 stages within the < > range by remote controller.
★6 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | FBQ18PVJU | FBQ24PVJU |
|--|--------------------------|-----------------------------------|---|---|
| | | Outdoor unit | RZQ18TAVJUA | RZQ24TAVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | 24,000 (7.0) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 20,000 (5.9) | 27,000 (7.9) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 12,000 (3.5) | 18,000 (5.3) |
| SEER (Rated) | | | 16.7 | 16.5 |
| EER (Rated) | | Btu/h-W | 13.0 | 12.0 |
| HSPF (Rated) | | | 9.5 | 9.7 |
| Indoor unit | | | FBQ18PVJU | FBQ24PVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 11-13/16 × 39-3/8 × 27-9/16 (300 × 1,000 × 700) | 11-13/16 × 39-3/8 × 27-9/16 (300 × 1,000 × 700) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 3 × 16 × 15 | 3 × 16 × 15 |
| | Face area | ft ² (m ²) | 2.68 (0.249) | 2.68 (0.249) |
| Fan | Model | | — | — |
| | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 350 | 350 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 635/582/529 (18.0/16.5/15.0) | 688/618/565 (19.5/17.5/16.0) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 |
| Sound pressure level (HH/H/L) | | dB(A) | 41.0/39.0/37.0 | 42.0/40.0/38.0 |
| Air filter | | | —★6 | —★6 |
| Weight | | lbs (kg) | 80 (36) | 80 (36) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | BRC4C82, BRC082A43 | BRC4C82, BRC082A43 |
| Outdoor unit | | | RZQ18TAVJUA | RZQ24TAVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 39 × 37 × 12-5/8 (990 × 940 × 320) | 39 × 37 × 12-5/8 (990 × 940 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 44 × 19 | 2 × 44 × 19 |
| | Face area | ft ² (m ²) | 9.5 (0.88) | 9.5 (0.88) |
| Compressor | Model | | 2YC63TXD#A | 2YC63TXD#A |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 1.9 | 1.9 |
| Fan | Model | | P51J11F | P51J11F |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 200 | 200 |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | 2,682 (76) |
| Weight | | lbs (kg) | 172 (78) | 172 (78) |
| Sound pressure level (Cooling/Heating) | | dB(A) | 58 / 61 | 58 / 61 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 164 (50) | 164 (50) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 6.4 (2.9) | 6.4 (2.9) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.08 | 1.08 |
| Drawing No. | Specification | | C: 4D126350 | C: 4D126350 |
| | Sound (indoor) | | C: 4D075278 | C: 4D075279 |
| | Sound (outdoor) | | C: 4D101947D / C: 4D101948E | C: 4D101947D / C: 4D101948E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★5 External static pressure is changeable in 14 stages within the < > range by remote controller.
- ★6 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | FBQ30PVJU | FBQ36PVJU |
|--|--------------------------|-----------------------------------|---|---|
| | | Outdoor unit | RZQ30TAVJUA | RZQ36TAVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 30,000 (8.8) | 36,000 (10.6) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 34,000 (10.0) | 40,000 (11.7) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 22,000 (6.4) | 21,000 (6.2) |
| SEER (Rated) | | | 16.0 | 17.5 |
| EER (Rated) | Btu/h-W | | 10.5 | 11.1 |
| HSPF (Rated) | | | 9.2 | 9.1 |
| Indoor unit | | | FBQ30PVJU | FBQ36PVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 11-13/16 × 39-3/8 × 27-9/16 (300 × 1,000 × 700) | 11-13/16 × 55-1/8 × 27-9/16 (300 × 1,400 × 700) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 3 × 16 × 15 | 3 × 16 × 15 |
| | Face area | ft ² (m ²) | 2.68 (0.249) | 4.12 (0.383) |
| Fan | Model | | — | — |
| | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 350 | 350 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 882/794/706 (25.0/22.0/20.0) | 1,130/953/812 (32.0/27.0/23.0) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 |
| Sound pressure level (HH/H/L) | dB(A) | | 43.0/41.0/39.0 | 43.0/41.0/39.0 |
| Air filter | | | —★6 | —★6 |
| Weight | lbs (kg) | | 80 (36) | 102 (46) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | BRC4C82, BRC082A43 | BRC4C82, BRC082A43 |
| Outdoor unit | | | RZQ30TAVJUA | RZQ36TAVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90FXD#A | 2YC90FXD#A |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | lbs (kg) | | 225 (102) | 225 (102) |
| Sound pressure level (Cooling/Heating) | dB(A) | | 57 / 59 | 57 / 59 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | % | | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D126352 | C: 4D126352 |
| | Sound (indoor) | | C: 4D075280 | C: 4D075281 |
| | Sound (outdoor) | | C: 4D101949D / C: 4D101950E | C: 4D101949D / C: 4D101950E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 External static pressure is changeable in 14 stages within the < > range by remote controller.
★6 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | FBQ42PVJU | FBQ48PVJU |
|--|--------------------------|-----------------------------------|---|---|
| | | Outdoor unit | RZQ42TAVJUA | RZQ48TAVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 40,500 (11.9) | 48,000 (14.1) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 47,000 (13.8) | 54,000 (15.8) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 25,000 (7.3) | 28,000 (8.2) |
| SEER (Rated) | | | 16.0 | 14.0 |
| EER (Rated) | | Btu/h-W | 10.1 | 8.6 |
| HSPF (Rated) | | | 8.8 | 8.4 |
| Indoor unit | | | FBQ42PVJU | FBQ48PVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 11-13/16 × 55-1/8 × 27-9/16 (300 × 1,400 × 700) | 11-13/16 × 55-1/8 × 27-9/16 (300 × 1,400 × 700) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 3 × 16 × 15 | 3 × 16 × 15 |
| | Face area | ft ² (m ²) | 4.12 (0.383) | 4.12 (0.383) |
| Fan | Model | | — | — |
| | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 350 | 350 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,400/1,165/988 (39.6/33.0/28.0) | 1,400/1,165/988 (39.6/33.0/28.0) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 |
| Sound pressure level (HH/H/L) | | dB(A) | 44.0/42.0/40.0 | 44.0/42.0/40.0 |
| Air filter | | | —★6 | —★6 |
| Weight | | lbs (kg) | 102 (46) | 102 (46) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | BRC1E73, BRC2A71 |
| | Wireless | | BRC4C82, BRC082A43 | BRC4C82, BRC082A43 |
| Outdoor unit | | | RZQ42TAVJUA | RZQ48TAVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| | Rows×Stages×FPI | | 2 × 60 × 19 | 2 × 60 × 19 |
| | Face area | ft ² (m ²) | 12.2 (1.134) | 12.2 (1.134) |
| Compressor | Model | | 2YC90FXD#A | 2YC90FXD#A |
| | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Model | | P47N | P47N |
| | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level (Cooling/Heating) | | dB(A) | 57 / 59 | 57 / 59 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse |
| Capacity Control | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Model | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Model | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | C: 4D126352 | C: 4D126352 |
| | Sound (indoor) | | C: 4D075282A | C: 4D075282A |
| | Sound (outdoor) | | C: 4D101949D / C: 4D101950E | C: 4D101949D / C: 4D101950E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
- ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★5 External static pressure is changeable in 14 stages within the < > range by remote controller.
- ★6 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | | FBQ18TBVJU | | FBQ24TBVJU | | |
|--|--------------------------|---------------------------|--|--|---|--|---|--|
| | | Outdoor unit | | RZQ18TBVJUA | | RZQ24TBVJUA | | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | | |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | | 17,700 (5.2) | | 23,400 (6.9) | | |
| ★2 ★4 Heating capacity | Btu/h (kW) | | | 20,600 (6.0) | | 27,400 (8.0) | | |
| ★3 ★4 Heating capacity | Btu/h (kW) | | | 14,000 (4.1) | | 19,000 (5.6) | | |
| Indoor unit | | | | FBQ18TBVJU | | FBQ24TBVJU | | |
| Casing color | | | | Galvanized steel plate | | Galvanized steel plate | | |
| Dimensions: (H×W×D) | | in (mm) | | 9-11/16 × 39-3/8 × 31-1/2 (245 × 1,000 × 800) | | 9-11/16 × 39-3/8 × 31-1/2 (245 × 1,000 × 800) | | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | | |
| Fan | Type | | | Sirocco fan | | Sirocco fan | | |
| | Motor output | W | | | 230 | | 230 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | | | 635/565/512 (18.0/16.0/14.5) | | 742/635/565 (21.0/18.0/16.0) | |
| | External static pressure | inH ₂ O (Pa) | | | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 | | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 | |
| Sound pressure level (H/M/L) | dB(A) | | | 38.0/35.0/32.0 | | 39.0/35.0/33.0 | | |
| Air filter | | | | —★6 | | —★6 | | |
| Weight | lbs (kg) | | | 77 (35) | | 82 (37) | | |
| Connecting Pipes | Liquid Pipe | in (mm) | | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | |
| Remote controller (accessory) | Wired | | | BRC1E73, BRC1H71W | | BRC1E73, BRC1H71W | | |
| | Wireless | | | BRC082A43 | | BRC082A43 | | |
| Outdoor unit | | | | RZQ18TBVJUA | | RZQ24TBVJUA | | |
| Casing color | | | | Ivory white | | Ivory white | | |
| Dimensions: (H×W×D) | | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | | |
| Compressor | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | | |
| | Motor output | kW | | | 1.9 | | 1.9 | |
| Fan | Type | | | Propeller fan | | Propeller fan | | |
| | Motor output | W | | | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | | | 2,682 (76) | | 2,682 (76) | |
| Weight | lbs (kg) | | | 172 (78) | | 172 (78) | | |
| Sound pressure level (Cooling/Heating) | dB(A) | | | 58 / 61 | | 58 / 61 | | |
| Connecting Pipes | Liquid Pipe | in (mm) | | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | | |
| Capacity step | % | | | 14-100 | | 14-100 | | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | | |
| Ref. piping | Standard length | ft (m) | | | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | | | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | | | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | | R-410A | | R-410A | | |
| | Charge | lbs (kg) | | | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | | |
| | Charge | L | | | 1.08 | | 1.08 | |
| Drawing No. | Specification | | | 4D143007A | | 4D143007A | | |
| | Sound (indoor) | | | 4D143354 | | 4D143355 | | |
| | Sound (outdoor) | | | 4D101947D / 4D101948E | | 4D101947D / 4D101948E | | |

Notes:

★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).

★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).

★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).

★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

★5 External static pressure is changeable in 14 stages within the < > range by remote controller.

★6 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | Outdoor unit | FBQ30TBVJU RZQ30TBVJUA | FBQ36TBVJU RZQ36TBVJUA |
|--|--------------------------|---------------------------|--|--|---|
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | | 28,400 (8.3) | 35,000 (10.3) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | | 34,800 (10.2) | 40,000 (11.7) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | | 24,000 (7.0) | 28,000 (8.2) |
| Indoor unit | | | | FBQ30TBVJU | FBQ36TBVJU |
| Casing color | | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | | 9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800) | 9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800) |
| Coil | Type | | | Cross fin coil | Cross fin coil |
| Fan | Type | | | Sirocco fan | Sirocco fan |
| | Motor output | W | | 364 | 364 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | | 1,094/847/795 (31.0/24.0/22.5) | 1,130/953/795 (32.0/27.0/22.5) |
| | External static pressure | inH ₂ O (Pa) | | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 |
| Sound pressure level (H/M/L) | dB(A) | | 43.0/38.0/36.0 | 44.0/40.0/36.0 | |
| Air filter | | | —★6 | —★6 | |
| Weight | lbs (kg) | | 101 (46) | 101 (46) | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (accessory) | Wired | | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | | BRC082A43 | BRC082A43 |
| Outdoor unit | | | | RZQ30TBVJUA | RZQ36TBVJUA |
| Casing color | | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | | Cross fin coil | Cross fin coil |
| Compressor | Type | | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | | 3.5 | 3.5 |
| Fan | Type | | | Propeller fan | Propeller fan |
| | Motor output | W | | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | | 3,741 (106) | 3,741 (106) |
| Weight | lbs (kg) | | 225 (102) | 225 (102) | |
| Sound pressure level (Cooling/Heating) | dB(A) | | 57 / 59 | 57 / 59 | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | |
| Capacity step | % | | 14-100 | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | | 98 (30) | 98 (30) |
| Refrigerant | Type | | | R-410A | R-410A |
| | Charge | lbs (kg) | | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Type | | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | | 1.52 | 1.52 |
| Drawing No. | Specification | | | 4D143008A | 4D143008A |
| | Sound (indoor) | | | 4D143356 | 4D143357 |
| | Sound (outdoor) | | | 4D101949D / 4D101950E | 4D101949D / 4D101950E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★5 External static pressure is changeable in 14 stages within the < > range by remote controller.
- ★6 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | FBQ42TBVJU | FBQ48TBVJU |
|--|--------------------------|---------------------------|--|--|
| | | Outdoor unit | RZQ42TBVJUA | RZQ48TBVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 40,000 (11.7) | 46,500 (13.6) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 47,000 (13.8) | 54,000 (15.8) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 32,400 (9.5) | 38,000 (11.1) |
| Indoor unit | | | FBQ42TBVJU | FBQ48TBVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800) | 9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Fan | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 364 | 364 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,377/1,130/918 (39.0/32.0/26.0) | 1,377/1,130/918 (39.0/32.0/26.0) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 |
| Sound pressure level (H/M/L) | | dB(A) | 48.0/44.0/39.0 | 48.0/44.0/39.0 |
| Air filter | | | —★6 | —★6 |
| Weight | | lbs (kg) | 104 (47) | 104 (47) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (accessory) | Wired | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | BRC082A43 | BRC082A43 |
| Outdoor unit | | | RZQ42TBVJUA | RZQ48TBVJUA |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Compressor | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level (Cooling/Heating) | | dB(A) | 57 / 59 | 57 / 59 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse |
| Capacity step | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Type | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Type | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | 4D143008A | 4D143008A |
| | Sound (indoor) | | 4D143359 | 4D143360 |
| | Sound (outdoor) | | 4D101949D / 4D101950E | 4D101949D / 4D101950E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 External static pressure is changeable in 14 stages within the < > range by remote controller.
★6 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | Outdoor unit | FBQ18TBVJU | RZQ18TBVJUB | FBQ24TBVJU | RZQ24TBVJUB |
|--|--------------------------|---------------------------|--------------|--|-------------|--|-------------|
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | | Btu/h (kW) | | 17,700 (5.2) | | 23,400 (6.9) | |
| ★2 ★4 Heating capacity | | Btu/h (kW) | | 20,600 (6.0) | | 27,400 (8.0) | |
| ★3 ★4 Heating capacity | | Btu/h (kW) | | 14,000 (4.1) | | 19,000 (5.6) | |
| Indoor unit | | | | FBQ18TBVJU | | FBQ24TBVJU | |
| Casing color | | | | Galvanized steel plate | | Galvanized steel plate | |
| Dimensions: (H×W×D) | | in (mm) | | 9-11/16 × 39-3/8 × 31-1/2 (245 × 1,000 × 800) | | 9-11/16 × 39-3/8 × 31-1/2 (245 × 1,000 × 800) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Fan | Type | | | Sirocco fan | | Sirocco fan | |
| | Motor output | W | | 230 | | 230 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | | 635/565/512 (18.0/16.0/14.5) | | 742/635/565 (21.0/18.0/16.0) | |
| | External static pressure | inH ₂ O (Pa) | | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 | | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 | |
| Sound pressure level (H/M/L) | | dB(A) | | 38.0/35.0/32.0 | | 39.0/35.0/33.0 | |
| Air filter | | | | —★6 | | —★6 | |
| Weight | | | lbs (kg) | 77 (35) | | 82 (37) | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | |
| Remote controller (accessory) | Wired | | | BRC1E73, BRC1H71W | | BRC1E73, BRC1H71W | |
| | Wireless | | | BRC082A43 | | BRC082A43 | |
| Outdoor unit | | | | RZQ18TBVJUB | | RZQ24TBVJUB | |
| Casing color | | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Compressor | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | | 1.9 | | 1.9 | |
| Fan | Type | | | Propeller fan | | Propeller fan | |
| | Motor output | W | | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | | 2,682 (76) | | 2,682 (76) | |
| Weight | | | lbs (kg) | 172 (78) | | 172 (78) | |
| Sound pressure level (Cooling/Heating) | | | dB(A) | 58 / 61 | | 58 / 61 | |
| Connecting Pipes | Liquid Pipe | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | |
| Capacity step | | | % | 14-100 | | 14-100 | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | | R-410A | | R-410A | |
| | Charge | lbs (kg) | | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | | 1.08 | | 1.08 | |
| Drawing No. | Specification | | | 4D148306 | | 4D148306 | |
| | Sound (indoor) | | | 4D143354 | | 4D143355 | |
| | Sound (outdoor) | | | 4D101947D / 4D101948E | | 4D101947D / 4D101948E | |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★5 External static pressure is changeable in 14 stages within the < > range by remote controller.
- ★6 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | FBQ30TBVJU | FBQ36TBVJU |
|--|--------------------------|---------------------------|--|--|
| | | Outdoor unit | RZQ30TBVJUB | RZQ36TBVJUB |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 28,400 (8.3) | 35,000 (10.3) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 34,800 (10.2) | 40,000 (11.7) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 24,000 (7.0) | 28,000 (8.2) |
| Indoor unit | | | FBQ30TBVJU | FBQ36TBVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800) | 9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Fan | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 364 | 364 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,094/847/795 (31.0/24.0/22.5) | 1,130/953/795 (32.0/27.0/22.5) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 |
| Sound pressure level (H/M/L) | | dB(A) | 43.0/38.0/36.0 | 44.0/40.0/36.0 |
| Air filter | | | —★6 | —★6 |
| Weight | | lbs (kg) | 101 (46) | 101 (46) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (accessory) | Wired | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | BRC082A43 | BRC082A43 |
| Outdoor unit | | | RZQ30TBVJUB | RZQ36TBVJUB |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Compressor | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | | lbs (kg) | 225 (102) | 225 (102) |
| Sound pressure level (Cooling/Heating) | | dB(A) | 57 / 59 | 57 / 59 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse |
| Capacity step | | % | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Type | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Type | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | 4D148307 | 4D148307 |
| | Sound (indoor) | | 4D143356 | 4D143357 |
| | Sound (outdoor) | | 4D101949D / 4D101950E | 4D101949D / 4D101950E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 External static pressure is changeable in 14 stages within the < > range by remote controller.
★6 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

| Model name | | Indoor unit | FBQ42TBVJU | FBQ48TBVJU |
|--|--------------------------|---------------------------|--|--|
| | | Outdoor unit | RZQ42TBVJUB | RZQ48TBVJUB |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | 1 phase, 208/230 V, 60 Hz |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 40,000 (11.7) | 46,500 (13.6) |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 47,000 (13.8) | 54,000 (15.8) |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 32,400 (9.5) | 38,000 (11.1) |
| Indoor unit | | | FBQ42TBVJU | FBQ48TBVJU |
| Casing color | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H×W×D) | | in (mm) | 9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800) | 9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Fan | Type | | Sirocco fan | Sirocco fan |
| | Motor output | W | 364 | 364 |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,377/1,130/918 (39.0/32.0/26.0) | 1,377/1,130/918 (39.0/32.0/26.0) |
| | External static pressure | inH ₂ O (Pa) | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 | Standard 0.40 <0.80-0.20> (100 <200-50>) ★5 |
| Sound pressure level (H/M/L) | dB(A) | | 48.0/44.0/39.0 | 48.0/44.0/39.0 |
| Air filter | | | —★6 | —★6 |
| Weight | lbs (kg) | | 104 (47) | 104 (47) |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) | VP25 (External dia. 1-1/4 (32), internal dia. 1 (26)) |
| Remote controller (accessory) | Wired | | BRC1E73, BRC1H71W | BRC1E73, BRC1H71W |
| | Wireless | | BRC082A43 | BRC082A43 |
| Outdoor unit | | | RZQ42TBVJUB | RZQ48TBVJUB |
| Casing color | | | Ivory white | Ivory white |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) |
| Coil | Type | | Cross fin coil | Cross fin coil |
| Compressor | Type | | Hermetically sealed swing type | Hermetically sealed swing type |
| | Motor output | kW | 3.5 | 3.5 |
| Fan | Type | | Propeller fan | Propeller fan |
| | Motor output | W | 70 × 2 | 70 × 2 |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | 3,741 (106) |
| Weight | lbs (kg) | | 225 (102) | 225 (102) |
| Sound pressure level (Cooling/Heating) | dB(A) | | 57 / 59 | 57 / 59 |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | φ3/8 (φ9.5) (Flare connection) |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | φ5/8 (φ15.9) (Flare connection) |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | φ1 (φ26) (Hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse |
| Capacity step | % | | 14-100 | 14-100 |
| Refrigerant control | | | Electronic expansion valve | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | 25 (7.6) |
| | Max. length | ft (m) | 230 (70) | 230 (70) |
| | Max. height difference | ft (m) | 98 (30) | 98 (30) |
| Refrigerant | Type | | R-410A | R-410A |
| | Charge | lbs (kg) | 7.9 (3.6) | 7.9 (3.6) |
| Ref. oil | Type | | DAPHNE FVC50K | DAPHNE FVC50K |
| | Charge | L | 1.52 | 1.52 |
| Drawing No. | Specification | | 4D148307 | 4D148307 |
| | Sound (indoor) | | 4D143359 | 4D143360 |
| | Sound (outdoor) | | 4D101949D / 4D101950E | 4D101949D / 4D101950E |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★5 External static pressure is changeable in 14 stages within the < > range by remote controller.
- ★6 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

3.2.5 Multi Position Air Handling Unit

| Model name | Indoor unit | | FTQ18TAVJUD, FTQ18TAVJUA | | FTQ24TAVJUD, FTQ24TAVJUA | |
|---|--------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | RZQ18TAVJU | | RZQ24TAVJU | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | | 24,000 (7.0) | |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 20,000 (5.9) | | 27,000 (7.9) | |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 13,000 (3.8) | | 18,000 (5.3) | |
| SEER (Rated) | | | 15.5 | | 15.2 | |
| EER (Rated) | Btu/h-W | | 12.5 | | 10.3 | |
| HSPF (Rated) | | | 8.6 | | 9.4 | |
| Indoor unit | | | FTQ18TAVJUD, FTQ18TAVJUA | | FTQ24TAVJUD, FTQ24TAVJUA | |
| Casing color | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | | in (mm) 45 × 17.5 × 21 (1,143 × 445 × 533) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Face area | ft ² (m ²) | 3.75 (35) | | 3.75 (35) | |
| Fan | Type | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | 1/2 | | 1/2 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 600/510/420 (17.0/14.4/11.9) | | 800/680/560 (22.7/19.3/15.9) | |
| | External static pressure | in. w.g. | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Sound pressure level (H/M/L) | dB(A) | | 44.6/41.3/38.4 | | 51.6/48.2/44.0 | |
| Air filter | | | —★5 | | —★5 | |
| Weight | lbs (kg) | | 115 (52.2) | | 115 (52.2) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Brazing connection) | | φ3/8 (φ9.5) (Brazing connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Brazing connection) | | φ5/8 (φ15.9) (Brazing connection) | |
| | Drain Pipe | in (mm) | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | |
| | Wireless | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | RZQ18TAVJU | | RZQ24TAVJU | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | | in (mm) 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 44 × 19 | | 2 × 44 × 19 | |
| | Face area | ft ² (m ²) | 9.5 (0.88) | | 9.5 (0.88) | |
| Compressor | Model | | 2YC63ABXDD | | 2YC63ABXDD | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 1.9 | | 1.9 | |
| Fan | Model | | P51J11F | | P51J11F | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | | 2,682 (76) | |
| Weight | lbs (kg) | | 172 (78) | | 172 (78) | |
| Sound pressure level (Cooling/Heating) | dB(A) | | 58 / 61 | | 58 / 61 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.08 | | 1.08 | |
| Drawing No. | Sound (outdoor) | | C: 4D101947D / C: 4D101948E | | C: 4D101947D / C: 4D101948E | |
| Notes: | | | | | | |
| ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m). | | | | | | |
| ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m). | | | | | | |
| ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m). | | | | | | |
| ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat. | | | | | | |
| ★5 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side. | | | | | | |

| Model name | Indoor unit | | FTQ30TAVJUD, FTQ30TAVJUA | | FTQ36TAVJUD, FTQ36TAVJUA | |
|--|--------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | RZQ30TAVJU | | RZQ36TAVJU | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 30,000 (8.8) | | 36,000 (10.6) | |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 34,000 (10.0) | | 40,000 (11.7) | |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 22,000 (6.4) | | 26,000 (7.6) | |
| SEER (Rated) | | | 16.0 | | 15.3 | |
| EER (Rated) | | | 12.5 | | 11.3 | |
| HSPF (Rated) | | | 10.4 | | 9.5 | |
| Indoor unit | | | FTQ30TAVJUD, FTQ30TAVJUA | | FTQ36TAVJUD, FTQ36TAVJUA | |
| Casing color | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | | 45 × 17.5 × 21 (1,143 × 445 × 533) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Face area | ft ² (m ²) | 3.75 (35) | | 3.75 (35) | |
| Fan | Type | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | 1/2 | | 1/2 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,000/850/700 (28.3/24.1/19.8) | | 1,050/900/750 (29.7/25.5/21.2) | |
| | External static pressure | in. w.g. | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Sound pressure level (H/M/L) | | | 51.6/48.2/44.0 | | 51.6/48.2/44.0 | |
| Air filter | | | —★5 | | —★5 | |
| Weight | | | 115 (52.2) | | 140 (63.5) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Brazing connection) | | φ3/8 (φ9.5) (Brazing connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Brazing connection) | | φ5/8 (φ15.9) (Brazing connection) | |
| | Drain Pipe | in (mm) | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | |
| | Wireless | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | RZQ30TAVJU | | RZQ36TAVJU | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 60 × 19 | | 2 × 60 × 19 | |
| | Face area | ft ² (m ²) | 12.2 (1.134) | | 12.2 (1.134) | |
| Compressor | Model | | 2YC90GXD#D | | 2YC90GXD#D | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 3.5 | | 3.5 | |
| Fan | Model | | P47N | | P47N | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | | 3,741 (106) | |
| Weight | | | 225 (102) | | 225 (102) | |
| Sound pressure level (Cooling/Heating) | | | 57 / 59 | | 57 / 59 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | | | 14-100 | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.52 | | 1.52 | |
| Drawing No. | Sound (outdoor) | | C: 4D101949D / C: 4D101950E | | C: 4D101949D / C: 4D101950E | |

Notes:
★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | Indoor unit | | FTQ42TAVJUD, FTQ42TAVJUA | | FTQ48TAVJUD, FTQ48TAVJUA | |
|--|--------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | RZQ42TAVJU | | RZQ48TAVJU | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 42,000 (12.3) | | 48,000 (14.1) | |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 47,000 (13.8) | | 54,000 (15.8) | |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 31,000 (9.1) | | 32,000 (9.4) | |
| SEER (Rated) | | | 16.0 | | 14.8 | |
| EER (Rated) | | | 11.0 | | 9.5 | |
| HSPF (Rated) | | | 9.0 | | 9.0 | |
| Indoor unit | | | FTQ42TAVJUD, FTQ42TAVJUA | | FTQ48TAVJUD, FTQ48TAVJUA | |
| Casing color | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | | 53.43 × 21 × 21 (1,357 × 533 × 533) | | 53.43 × 21 × 21 (1,357 × 533 × 533) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Face area | ft ² (m ²) | 5.15 (48) | | 5.15 (48) | |
| Fan | Type | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | 3/4 | | 3/4 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,400/1,190/980 (39.7/33.7/27.8) | | 1,520/1,290/1,060 (43.1/36.5/30.0) | |
| | External static pressure | in. w.g. | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Sound pressure level (H/M/L) | | | 53.8/50.0/45.6 | | 53.8/50.0/45.6 | |
| Air filter | | | —★5 | | —★5 | |
| Weight | | | 150 (68) | | 150 (68) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Brazing connection) | | φ3/8 (φ9.5) (Brazing connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Brazing connection) | | φ5/8 (φ15.9) (Brazing connection) | |
| | Drain Pipe | in (mm) | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | |
| | Wireless | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | RZQ42TAVJU | | RZQ48TAVJU | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 60 × 19 | | 2 × 60 × 19 | |
| | Face area | ft ² (m ²) | 12.2 (1.134) | | 12.2 (1.134) | |
| Compressor | Model | | 2YC90GXD#D | | 2YC90GXD#D | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 3.5 | | 3.5 | |
| Fan | Model | | P47N | | P47N | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | | 3,741 (106) | |
| Weight | | | 225 (102) | | 225 (102) | |
| Sound pressure level (Cooling/Heating) | | | 57 / 59 | | 57 / 59 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | | | 14-100 | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.52 | | 1.52 | |
| Drawing No. | Sound (outdoor) | | C: 4D101949D / C: 4D101950E | | C: 4D101949D / C: 4D101950E | |

Notes:
★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | Indoor unit | | FTQ18TAVJUD, FTQ18TAVJUA | | FTQ24TAVJUD, FTQ24TAVJUA | |
|--|--------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | RZQ18TAVJUA | | RZQ24TAVJUA | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 18,000 (5.3) | | 24,000 (7.0) | |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 20,000 (5.9) | | 27,000 (7.9) | |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 13,000 (3.8) | | 18,000 (5.3) | |
| SEER (Rated) | | | 15.5 | | 15.2 | |
| EER (Rated) | | | 12.5 | | 10.3 | |
| HSPF (Rated) | | | 8.6 | | 9.4 | |
| Indoor unit | | | FTQ18TAVJUD, FTQ18TAVJUA | | FTQ24TAVJUD, FTQ24TAVJUA | |
| Casing color | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | | 45 × 17.5 × 21 (1,143 × 445 × 533) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Face area | ft ² (m ²) | 3.75 (35) | | 3.75 (35) | |
| Fan | Type | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | 1/2 | | 1/2 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 600/510/420 (17.0/14.4/11.9) | | 800/680/560 (22.7/19.3/15.9) | |
| | External static pressure | in. w.g. | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Sound pressure level (H/M/L) | | | 44.6/41.3/38.4 | | 51.6/48.2/44.0 | |
| Air filter | | | —★5 | | —★5 | |
| Weight | | | 115 (52.2) | | 115 (52.2) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Brazing connection) | | φ3/8 (φ9.5) (Brazing connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Brazing connection) | | φ5/8 (φ15.9) (Brazing connection) | |
| | Drain Pipe | in (mm) | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | |
| | Wireless | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | RZQ18TAVJUA | | RZQ24TAVJUA | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | | 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 44 × 19 | | 2 × 44 × 19 | |
| | Face area | ft ² (m ²) | 9.5 (0.88) | | 9.5 (0.88) | |
| Compressor | Model | | 2YC63TXD#A | | 2YC63TXD#A | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 1.9 | | 1.9 | |
| Fan | Model | | P51J11F | | P51J11F | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | 2,682 (76) | | 2,682 (76) | |
| Weight | | | 172 (78) | | 172 (78) | |
| Sound pressure level (Cooling/Heating) | | | 58 / 61 | | 58 / 61 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | | | % | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.08 | | 1.08 | |
| Drawing No. | Sound (outdoor) | | C: 4D101947D / C: 4D101948E | | C: 4D101947D / C: 4D101948E | |

Notes:
★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | Indoor unit | | FTQ30TAVJUD, FTQ30TAVJUA | | FTQ36TAVJUD, FTQ36TAVJUA | |
|---|--------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | RZQ30TAVJUA | | RZQ36TAVJUA | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 30,000 (8.8) | | 36,000 (10.6) | |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 34,000 (10.0) | | 40,000 (11.7) | |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 22,000 (6.4) | | 26,000 (7.6) | |
| SEER (Rated) | | | 16.0 | | 15.3 | |
| EER (Rated) | | | 12.5 | | 11.3 | |
| HSPF (Rated) | | | 10.4 | | 9.5 | |
| Indoor unit | | | FTQ30TAVJUD, FTQ30TAVJUA | | FTQ36TAVJUD, FTQ36TAVJUA | |
| Casing color | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | | 45 × 17.5 × 21 (1,143 × 445 × 533) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Face area | ft ² (m ²) | 3.75 (35) | | 3.75 (35) | |
| Fan | Type | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | 1/2 | | 1/2 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,000/850/700 (28.3/24.1/19.8) | | 1,050/900/750 (29.7/25.5/21.2) | |
| | External static pressure | in. w.g. | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Sound pressure level (H/M/L) | | | 51.6/48.2/44.0 | | 51.6/48.2/44.0 | |
| Air filter | | | —★5 | | —★5 | |
| Weight | | | 115 (52.2) | | 140 (63.5) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Brazing connection) | | φ3/8 (φ9.5) (Brazing connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Brazing connection) | | φ5/8 (φ15.9) (Brazing connection) | |
| | Drain Pipe | in (mm) | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | |
| | Wireless | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | RZQ30TAVJUA | | RZQ36TAVJUA | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 60 × 19 | | 2 × 60 × 19 | |
| | Face area | ft ² (m ²) | 12.2 (1.134) | | 12.2 (1.134) | |
| Compressor | Model | | 2YC90FXD#A | | 2YC90FXD#A | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 3.5 | | 3.5 | |
| Fan | Model | | P47N | | P47N | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | | 3,741 (106) | |
| Weight | | | 225 (102) | | 225 (102) | |
| Sound pressure level (Cooling/Heating) | | | 57 / 59 | | 57 / 59 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | | | 14-100 | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.52 | | 1.52 | |
| Drawing No. | Sound (outdoor) | | C: 4D101949D / C: 4D101950E | | C: 4D101949D / C: 4D101950E | |
| Notes: | | | | | | |
| ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m). | | | | | | |
| ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m). | | | | | | |
| ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m). | | | | | | |
| ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat. | | | | | | |
| ★5 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side. | | | | | | |

| Model name | Indoor unit | | FTQ42TAVJUD, FTQ42TAVJUA | | FTQ48TAVJUD, FTQ48TAVJUA | |
|--|--------------------------|-----------------------------------|---|--|---|--|
| | Outdoor unit | | RZQ42TAVJUA | | RZQ48TAVJUA | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 42,000 (12.3) | | 48,000 (14.1) | |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 47,000 (13.8) | | 54,000 (15.8) | |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 31,000 (9.1) | | 32,000 (9.4) | |
| SEER (Rated) | | | 16.0 | | 14.8 | |
| EER (Rated) | | | 11.0 | | 9.5 | |
| HSPF (Rated) | | | 9.0 | | 9.0 | |
| Indoor unit | | | FTQ42TAVJUD, FTQ42TAVJUA | | FTQ48TAVJUD, FTQ48TAVJUA | |
| Casing color | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | | 53.43 × 21 × 21 (1,357 × 533 × 533) | | 53.43 × 21 × 21 (1,357 × 533 × 533) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Face area | ft ² (m ²) | 5.15 (48) | | 5.15 (48) | |
| Fan | Type | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | 3/4 | | 3/4 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,400/1,190/980 (39.7/33.7/27.8) | | 1,520/1,290/1,060 (43.1/36.5/30.0) | |
| | External static pressure | in. w.g. | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Sound pressure level (H/M/L) | | | 53.8/50.0/45.6 | | 53.8/50.0/45.6 | |
| Air filter | | | —★5 | | —★5 | |
| Weight | | | 150 (68) | | 150 (68) | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Brazing connection) | | φ3/8 (φ9.5) (Brazing connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Brazing connection) | | φ5/8 (φ15.9) (Brazing connection) | |
| | Drain Pipe | in (mm) | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (option) | Wired | | BRC1E73, BRC2A71 | | BRC1E73, BRC2A71 | |
| | Wireless | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | RZQ42TAVJUA | | RZQ48TAVJUA | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Rows×Stages×FPI | | 2 × 60 × 19 | | 2 × 60 × 19 | |
| | Face area | ft ² (m ²) | 12.2 (1.134) | | 12.2 (1.134) | |
| Compressor | Model | | 2YC90FXD#A | | 2YC90FXD#A | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | 3.5 | | 3.5 | |
| Fan | Model | | P47N | | P47N | |
| | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | | 3,741 (106) | |
| Weight | | | 225 (102) | | 225 (102) | |
| Sound pressure level (Cooling/Heating) | | | 57 / 59 | | 57 / 59 | |
| Connecting Pipes | Liquid Pipe | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas Pipe | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain Pipe | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity Control | | | 14-100 | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Model | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Model | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.52 | | 1.52 | |
| Drawing No. | Sound (outdoor) | | C: 4D101949D / C: 4D101950E | | C: 4D101949D / C: 4D101950E | |

Notes:
★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), level difference: 0 ft (0 m).
★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | | Indoor unit | | FTQ18TAVJUD, FTQ18TAVJUA | | FTQ24TAVJUD, FTQ24TAVJUA | |
|-------------------------------|--------------------------|---------------------------|--|---|--|---|--|
| | | Outdoor unit | | RZQ18TBVJUA | | RZQ24TBVJUA | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | | Btu/h (kW) | | 17,200 (5.0) | | 23,400 (6.9) | |
| ★2 ★4 Heating capacity | | Btu/h (kW) | | 20,000 (5.9) | | 27,400 (8.0) | |
| ★3 ★4 Heating capacity | | Btu/h (kW) | | 13,600 (4.0) | | 19,400 (5.7) | |
| EER2 (Rated) | | Btu/h-W | | 11.7 | | 9.9 | |
| SEER2 (Rated) | | | | 15.6 | | 16.2 | |
| HSPF2 (Rated) | | | | 8.1 | | 8.7 | |
| Indoor unit | | | | FTQ18TAVJUD, FTQ18TAVJUA | | FTQ24TAVJUD, FTQ24TAVJUA | |
| Casing color | | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | in (mm) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Fan | Type | | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | | 1/2 | | 1/2 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | | 600/510/420 (17.0/14.4/11.9) | | 800/680/560 (22.7/19.3/15.9) | |
| | External static pressure | in. w.g. | | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Air filter | | | | —★5 | | —★5 | |
| Weight | | lbs (kg) | | 115 (52.2) | | 115 (52.2) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Braze connection) | | φ3/8 (φ9.5) (Braze connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Braze connection) | | φ5/8 (φ15.9) (Braze connection) | |
| | Drain | in (mm) | | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (accessory) | Wired | | | BRC1H71W, BRC1E73, BRC2A71 | | BRC1H71W, BRC1E73, BRC2A71 | |
| | Wireless | | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | | RZQ18TBVJUA | | RZQ24TBVJUA | |
| Casing color | | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Compressor | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | | 1.9 | | 1.9 | |
| Fan | Type | | | Propeller fan | | Propeller fan | |
| | Motor output | W | | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | | 2,682 (76) | | 2,682 (76) | |
| Weight | | lbs (kg) | | 172 (78) | | 172 (78) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain | in (mm) | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity step | | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | | R-410A | | R-410A | |
| | Charge | lbs (kg) | | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | | 1.08 | | 1.08 | |

Notes:

★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).

★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).

★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).

★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

★5 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | Indoor unit | | FTQ30TAVJUD, FTQ30TAVJUA | | FTQ36TAVJUD, FTQ36TAVJUA | |
|-------------------------------|------------------------|---------------------------|---|--|---|--|
| | Outdoor unit | | RZQ30TBVJUA | | RZQ36TBVJUA | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 29,500 (8.6) | | 35,000 (10.3) | |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 34,000 (10.0) | | 40,000 (11.7) | |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 24,000 (7.0) | | 28,500 (8.4) | |
| EER2 (Rated) | Btu/h-W | | 11.9 | | 11.2 | |
| SEER2 (Rated) | | | 15.6 | | 16.4 | |
| HSPF2 (Rated) | | | 9.1 | | 8.8 | |
| Indoor unit | | | FTQ30TAVJUD, FTQ30TAVJUA | | FTQ36TAVJUD, FTQ36TAVJUA | |
| Casing color | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | in (mm) | 45 × 17.5 × 21 (1,143 × 445 × 533) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Type | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| Fan | Motor output | | 1/2 | | 1/2 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,000/850/700 (28.3/24.1/19.8) | | 1,050/900/750 (29.7/25.5/21.2) | |
| External static pressure | | in. w.g. | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Air filter | | | —★5 | | —★5 | |
| Weight | | lbs (kg) | 115 (52.2) | | 140 (63.5) | |
| Piping connections | Liquid | in (mm) | φ3/8 (φ9.5) (Braze connection) | | φ3/8 (φ9.5) (Braze connection) | |
| | Gas | in (mm) | φ5/8 (φ15.9) (Braze connection) | | φ5/8 (φ15.9) (Braze connection) | |
| | Drain | in (mm) | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (accessory) | Wired | | BRC1H71W, BRC1E73, BRC2A71 | | BRC1H71W, BRC1E73, BRC2A71 | |
| | Wireless | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | RZQ30TBVJUA | | RZQ36TBVJUA | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Type | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| Compressor | Motor output | | 3.5 | | 3.5 | |
| | Type | | Propeller fan | | Propeller fan | |
| Fan | Motor output | | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | | 3,741 (106) | |
| Weight | | lbs (kg) | 225 (102) | | 225 (102) | |
| Piping connections | Liquid | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity step | | % | 14-100 | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Type | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.52 | | 1.52 | |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★5 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | | Indoor unit | | FTQ42TAVJUD, FTQ42TAVJUA | | FTQ48TAVJUD, FTQ48TAVJUA | |
|-------------------------------|--------------------------|---------------------------|--|---|--|---|--|
| | | Outdoor unit | | RZQ42TBVJUA | | RZQ48TBVJUA | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | | 40,500 (11.9) | | 47,000 (13.8) | |
| ★2 ★4 Heating capacity | Btu/h (kW) | | | 47,000 (13.8) | | 54,000 (15.8) | |
| ★3 ★4 Heating capacity | Btu/h (kW) | | | 33,000 (9.7) | | 36,800 (10.8) | |
| EER2 (Rated) | Btu/h-W | | | 10.6 | | 9.1 | |
| SEER2 (Rated) | | | | 16.0 | | 15.3 | |
| HSPF2 (Rated) | | | | 9.2 | | 8.8 | |
| Indoor unit | | | | FTQ42TAVJUD, FTQ42TAVJUA | | FTQ48TAVJUD, FTQ48TAVJUA | |
| Casing color | | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | in (mm) | | 53.43 × 21 × 21 (1,357 × 533 × 533) | | 53.43 × 21 × 21 (1,357 × 533 × 533) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Fan | Type | | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | | 3/4 | | 3/4 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | | 1,400/1,190/980 (39.7/33.7/27.8) | | 1,520/1,290/1,060 (43.1/36.5/30.0) | |
| | External static pressure | in. w.g. | | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Air filter | | | | —★5 | | —★5 | |
| Weight | lbs (kg) | | | 150 (68) | | 150 (68) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Braze connection) | | φ3/8 (φ9.5) (Braze connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Braze connection) | | φ5/8 (φ15.9) (Braze connection) | |
| | Drain | in (mm) | | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (accessory) | Wired | | | BRC1H71W, BRC1E73, BRC2A71 | | BRC1H71W, BRC1E73, BRC2A71 | |
| | Wireless | | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | | RZQ42TBVJUA | | RZQ48TBVJUA | |
| Casing color | | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Compressor | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | | 3.5 | | 3.5 | |
| Fan | Type | | | Propeller fan | | Propeller fan | |
| | Motor output | W | | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | | 3,741 (106) | | 3,741 (106) | |
| Weight | lbs (kg) | | | 225 (102) | | 225 (102) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain | in (mm) | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity step | % | | | 14-100 | | 14-100 | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | | R-410A | | R-410A | |
| | Charge | lbs (kg) | | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | | 1.52 | | 1.52 | |

Notes:

★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).

★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).

★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).

★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

★5 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | | Indoor unit | | FTQ18TBVJUD, FTQ18TBVJUA | | FTQ24TBVJUD, FTQ24TBVJUA | |
|-------------------------------|--------------------------|---------------------------|--|---|--|---|--|
| | | Outdoor unit | | RZQ18TBVJUB | | RZQ24TBVJUB | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | | Btu/h (kW) | | 17,200 (5.0) | | 23,400 (6.9) | |
| ★2 ★4 Heating capacity | | Btu/h (kW) | | 20,000 (5.9) | | 27,400 (8.0) | |
| ★3 ★4 Heating capacity | | Btu/h (kW) | | 13,600 (4.0) | | 19,400 (5.7) | |
| EER2 (Rated) | | Btu/h-W | | 11.7 | | 9.9 | |
| SEER2 (Rated) | | | | 15.6 | | 16.2 | |
| HSPF2 (Rated) | | | | 8.1 | | 8.7 | |
| Indoor unit | | | | FTQ18TBVJUD, FTQ18TBVJUA | | FTQ24TBVJUD, FTQ24TBVJUA | |
| Casing color | | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | in (mm) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Fan | Type | | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | | 1/2 | | 1/2 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | | 600/510/420 (17.0/14.4/11.9) | | 800/680/560 (22.7/19.3/15.9) | |
| | External static pressure | in. w.g. | | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Air filter | | | | —★5 | | —★5 | |
| Weight | | lbs (kg) | | 115 (52.2) | | 115 (52.2) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Braze connection) | | φ3/8 (φ9.5) (Braze connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Braze connection) | | φ5/8 (φ15.9) (Braze connection) | |
| | Drain | in (mm) | | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (accessory) | Wired | | | BRC1H71W, BRC1E73, BRC2A71 | | BRC1H71W, BRC1E73, BRC2A71 | |
| | Wireless | | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | | RZQ18TBVJUB | | RZQ24TBVJUB | |
| Casing color | | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | | 39 × 37 × 12-5/8 (990 × 940 × 320) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Compressor | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | | 1.9 | | 1.9 | |
| Fan | Type | | | Propeller fan | | Propeller fan | |
| | Motor output | W | | 200 | | 200 | |
| | Airflow rate | cfm (m ³ /min) | | 2,682 (76) | | 2,682 (76) | |
| Weight | | lbs (kg) | | 172 (78) | | 172 (78) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain | in (mm) | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity step | | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | | 164 (50) | | 164 (50) | |
| | Max. height difference | ft (m) | | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | | R-410A | | R-410A | |
| | Charge | lbs (kg) | | 6.4 (2.9) | | 6.4 (2.9) | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | | 1.08 | | 1.08 | |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★5 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | | Indoor unit | | FTQ30TBVJUD, FTQ30TBVJUA | | FTQ36TBVJUD, FTQ36TBVJUA | |
|-------------------------------|--------------------------|---------------------------|--|---|--|---|--|
| | | Outdoor unit | | RZQ30TBVJUB | | RZQ36TBVJUB | |
| Power supply | | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | | Btu/h (kW) | | 29,500 (8.6) | | 35,000 (10.3) | |
| ★2 ★4 Heating capacity | | Btu/h (kW) | | 34,000 (10.0) | | 40,000 (11.7) | |
| ★3 ★4 Heating capacity | | Btu/h (kW) | | 24,000 (7.0) | | 28,500 (8.4) | |
| EER2 (Rated) | | Btu/h-W | | 11.9 | | 11.2 | |
| SEER2 (Rated) | | | | 15.6 | | 16.4 | |
| HSPF2 (Rated) | | | | 9.1 | | 8.8 | |
| Indoor unit | | | | FTQ30TBVJUD, FTQ30TBVJUA | | FTQ36TBVJUD, FTQ36TBVJUA | |
| Casing color | | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | in (mm) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | | 45 × 17.5 × 21 (1,143 × 445 × 533) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Fan | Type | | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| | Motor output | HP | | 1/2 | | 1/2 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | | 1,000/850/700 (28.3/24.1/19.8) | | 1,050/900/750 (29.7/25.5/21.2) | |
| | External static pressure | in. w.g. | | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Air filter | | | | —★5 | | —★5 | |
| Weight | | lbs (kg) | | 115 (52.2) | | 140 (63.5) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Brazing connection) | | φ3/8 (φ9.5) (Brazing connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Brazing connection) | | φ5/8 (φ15.9) (Brazing connection) | |
| | Drain | in (mm) | | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (accessory) | Wired | | | BRC1H71W, BRC1E73, BRC2A71 | | BRC1H71W, BRC1E73, BRC2A71 | |
| | Wireless | | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | | RZQ30TBVJUB | | RZQ36TBVJUB | |
| Casing color | | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | | Cross fin coil | | Cross fin coil | |
| Compressor | Type | | | Hermetically sealed swing type | | Hermetically sealed swing type | |
| | Motor output | kW | | 3.5 | | 3.5 | |
| Fan | Type | | | Propeller fan | | Propeller fan | |
| | Motor output | W | | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | | 3,741 (106) | | 3,741 (106) | |
| Weight | | lbs (kg) | | 225 (102) | | 225 (102) | |
| Piping connections | Liquid | in (mm) | | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas | in (mm) | | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain | in (mm) | | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity step | | % | | 14-100 | | 14-100 | |
| Refrigerant control | | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | | R-410A | | R-410A | |
| | Charge | lbs (kg) | | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Type | | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | | 1.52 | | 1.52 | |

Notes:

★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).

★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).

★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).

★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

★5 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

| Model name | Indoor unit | | FTQ42TBVJUD, FTQ42TBVJUA | | FTQ48TBVJUD, FTQ48TBVJUA | |
|-------------------------------|--------------------------|---------------------------|---|--|---|--|
| | Outdoor unit | | RZQ42TBVJUB | | RZQ48TBVJUB | |
| Power supply | | | 1 phase, 208/230 V, 60 Hz | | 1 phase, 208/230 V, 60 Hz | |
| ★1 ★4 Cooling capacity | Btu/h (kW) | | 40,500 (11.9) | | 47,000 (13.8) | |
| ★2 ★4 Heating capacity | Btu/h (kW) | | 47,000 (13.8) | | 54,000 (15.8) | |
| ★3 ★4 Heating capacity | Btu/h (kW) | | 33,000 (9.7) | | 36,800 (10.8) | |
| EER2 (Rated) | Btu/h-W | | 10.6 | | 9.1 | |
| SEER2 (Rated) | | | 16.0 | | 15.3 | |
| HSPF2 (Rated) | | | 9.2 | | 8.8 | |
| Indoor unit | | | FTQ42TBVJUD, FTQ42TBVJUA | | FTQ48TBVJUD, FTQ48TBVJUA | |
| Casing color | | | Daikin Slate Gray | | Daikin Slate Gray | |
| Dimensions: (H×W×D) | | in (mm) | 53.43 × 21 × 21 (1,357 × 533 × 533) | | 53.43 × 21 × 21 (1,357 × 533 × 533) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Fan | | Sirocco FC Centrifugal | | Sirocco FC Centrifugal | |
| Fan | Motor output | HP | 3/4 | | 3/4 | |
| | Airflow rate (H/M/L) | cfm (m ³ /min) | 1,400/1,190/980 (39.7/33.7/27.8) | | 1,520/1,290/1,060 (43.1/36.5/30.0) | |
| | External static pressure | in. w.g. | 0.1" - 0.9" | | 0.1" - 0.9" | |
| Air filter | | | —★5 | | —★5 | |
| Weight | | lbs (kg) | 150 (68) | | 150 (68) | |
| Piping connections | Liquid | in (mm) | φ3/8 (φ9.5) (Braze connection) | | φ3/8 (φ9.5) (Braze connection) | |
| | Gas | in (mm) | φ5/8 (φ15.9) (Braze connection) | | φ5/8 (φ15.9) (Braze connection) | |
| | Drain | in (mm) | 3/4" (19.1) | | 3/4" (19.1) | |
| Remote controller (accessory) | Wired | | BRC1H71W, BRC1E73, BRC2A71 | | BRC1H71W, BRC1E73, BRC2A71 | |
| | Wireless | | BRC4C82 | | BRC4C82 | |
| Outdoor unit | | | RZQ42TBVJUB | | RZQ48TBVJUB | |
| Casing color | | | Ivory white | | Ivory white | |
| Dimensions: (H×W×D) | | in (mm) | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | | 52-15/16 × 35-7/16 × 12-5/8 (1,345 × 900 × 320) | |
| Coil | Type | | Cross fin coil | | Cross fin coil | |
| | Compressor | Type | Hermetically sealed swing type | | Hermetically sealed swing type | |
| Motor output | | kW | 3.5 | | 3.5 | |
| Fan | Type | | Propeller fan | | Propeller fan | |
| | Motor output | W | 70 × 2 | | 70 × 2 | |
| | Airflow rate | cfm (m ³ /min) | 3,741 (106) | | 3,741 (106) | |
| Weight | | lbs (kg) | 225 (102) | | 225 (102) | |
| Piping connections | Liquid | in (mm) | φ3/8 (φ9.5) (Flare connection) | | φ3/8 (φ9.5) (Flare connection) | |
| | Gas | in (mm) | φ5/8 (φ15.9) (Flare connection) | | φ5/8 (φ15.9) (Flare connection) | |
| | Drain | in (mm) | φ1 (φ26) (Hole) | | φ1 (φ26) (Hole) | |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | | High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plugs, Fuse | |
| Capacity step | | % | 14-100 | | 14-100 | |
| Refrigerant control | | | Electronic expansion valve | | Electronic expansion valve | |
| Ref. piping | Standard length | ft (m) | 25 (7.6) | | 25 (7.6) | |
| | Max. length | ft (m) | 230 (70) | | 230 (70) | |
| | Max. height difference | ft (m) | 98 (30) | | 98 (30) | |
| Refrigerant | Type | | R-410A | | R-410A | |
| | Charge | lbs (kg) | 7.9 (3.6) | | 7.9 (3.6) | |
| Ref. oil | Type | | DAPHNE FVC50K | | DAPHNE FVC50K | |
| | Charge | L | 1.52 | | 1.52 | |

Notes:

- ★1 Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★2 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★3 Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m), height difference: 0 ft (0 m).
- ★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★5 Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

Part 2

Refrigerant Circuit

| | |
|---|-----|
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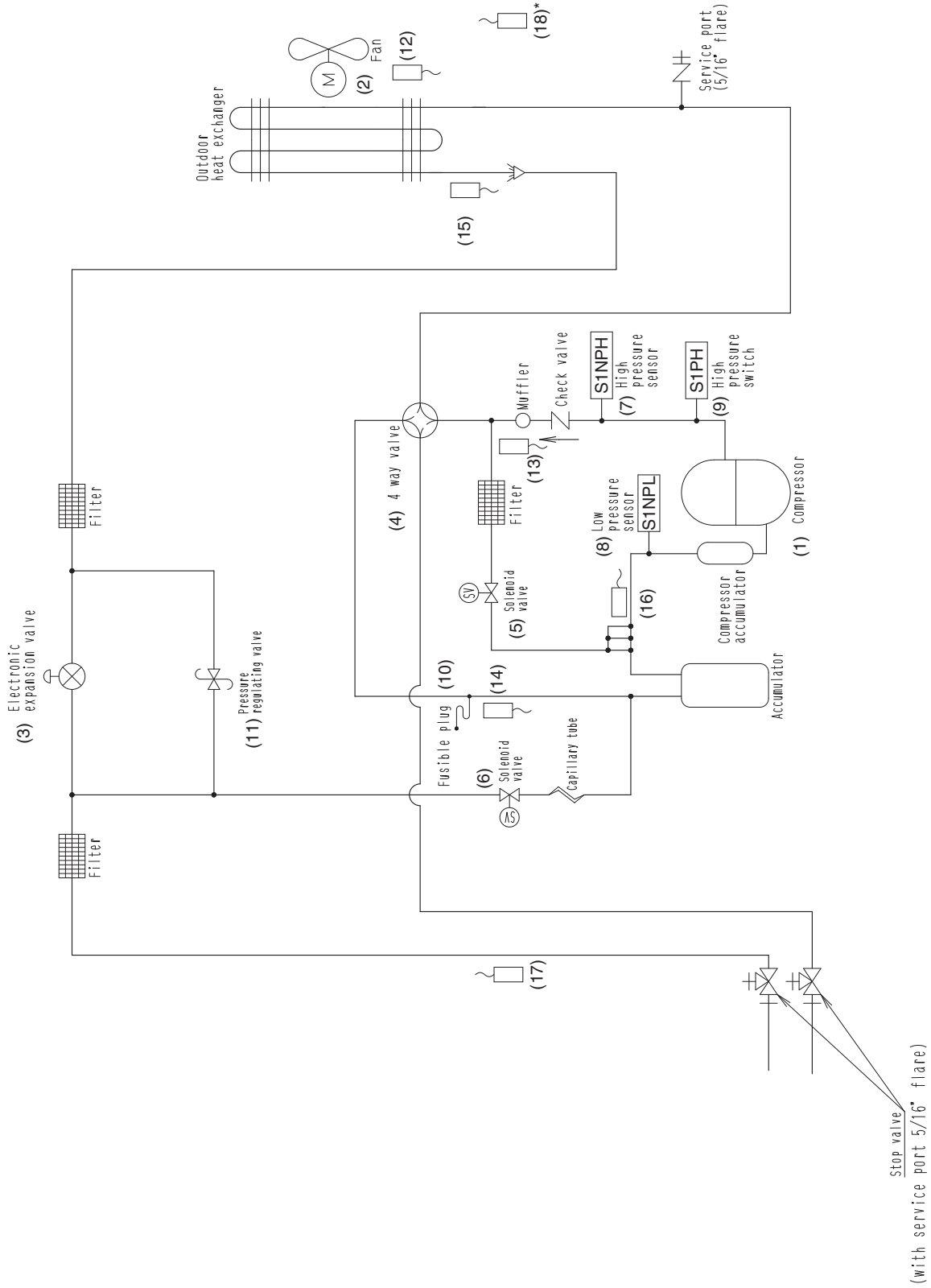
1. Refrigerant Circuit (Piping Diagrams)

1.1 Outdoor Unit

1.1.1 18/24 Class

| No. in piping diagram | Electric symbol | Name | Function |
|-----------------------|-----------------|--|---|
| (1) | M1C | Compressor | Compressor is operated in multi-steps according to Te and Tc. |
| (2) | M1F | Fan motor | The fan rotation speed is varied by using inverter. |
| (3) | Y1E | Electronic expansion valve (Main) | While in heating operation, PI control is applied to keep the outlet superheated degree of air heat exchanger constant. |
| (4) | Y1S | Four way valve | Used to switch the operation mode between cooling and heating. |
| (5) | Y2S | Solenoid valve (Hot gas) | Used to prevent the low pressure from transient falling. |
| (6) | Y3S | Solenoid valve (Liquid injection) | Used for high pressure protection and discharge pipe temperature protection. |
| (7) | S1NPH | High pressure sensor | Used to detect high pressure. |
| (8) | S1NPL | Low pressure sensor | Used to detect low pressure. |
| (9) | S1PH | High pressure switch (For compressor) | In order to prevent the increase of high pressure when an error occurs, this switch is activated at high pressure of 4.0 MPa (580 psi) or more to stop the compressor operation. |
| (10) | — | Fusible plug | In order to prevent the increase of pressure when abnormal heating is caused by fire or others, the fusible part of the plug is molten at a temperature of 70 to 75°C (158 to 167°F) to release the pressure into the atmosphere. |
| (11) | — | Pressure regulating valve (Receiver to discharge pipe) | This valve opens at a pressure of 4.0 MPa (580 psi) for prevention of pressure increase, thus resulting in no damage of functional parts due to the increase of pressure in transportation or storage. |
| (12) | R1T | Thermistor (Outdoor air: Ta) | Used to detect outdoor air temperature, correct discharge pipe temperature, and for other purposes. |
| (13) | R2T | Thermistor (Discharge pipe: Tdi) | Used to detect discharge pipe temperature, make the temperature protection control of compressor, and for other purposes. |
| (14) | R3T | Thermistor (Suction pipe 1: Ts1) | Used to detect suction pipe temperature, keep the suction superheated degree constant in heating operation, and for other purposes. |
| (15) | R4T | Thermistor (Heat exchanger deicer: Tb) | Used to detect liquid pipe temperature of air heat exchanger, determine defrosting operation, and for other purposes. |
| (16) | R5T | Thermistor (Suction pipe 2: Ts2) | Used to the calculation of an internal temperature of compressor etc. |
| (17) | R7T | Thermistor (Liquid pipe: Tl) | Used to detect refrigerant overcharge in check operation, and for other purposes. |
| (18) | R10T (FINTH) | Thermistor (Radiation fin) | Used for outdoor fan speed control and inverter radiation fin temperature control. |
| (19) | Q1E | Overload protector | Detects compressor surface temperature, this switch is activated at surface temperature of 125°C (257°F) or more to stop the compressor. (TBVJUB models only) |

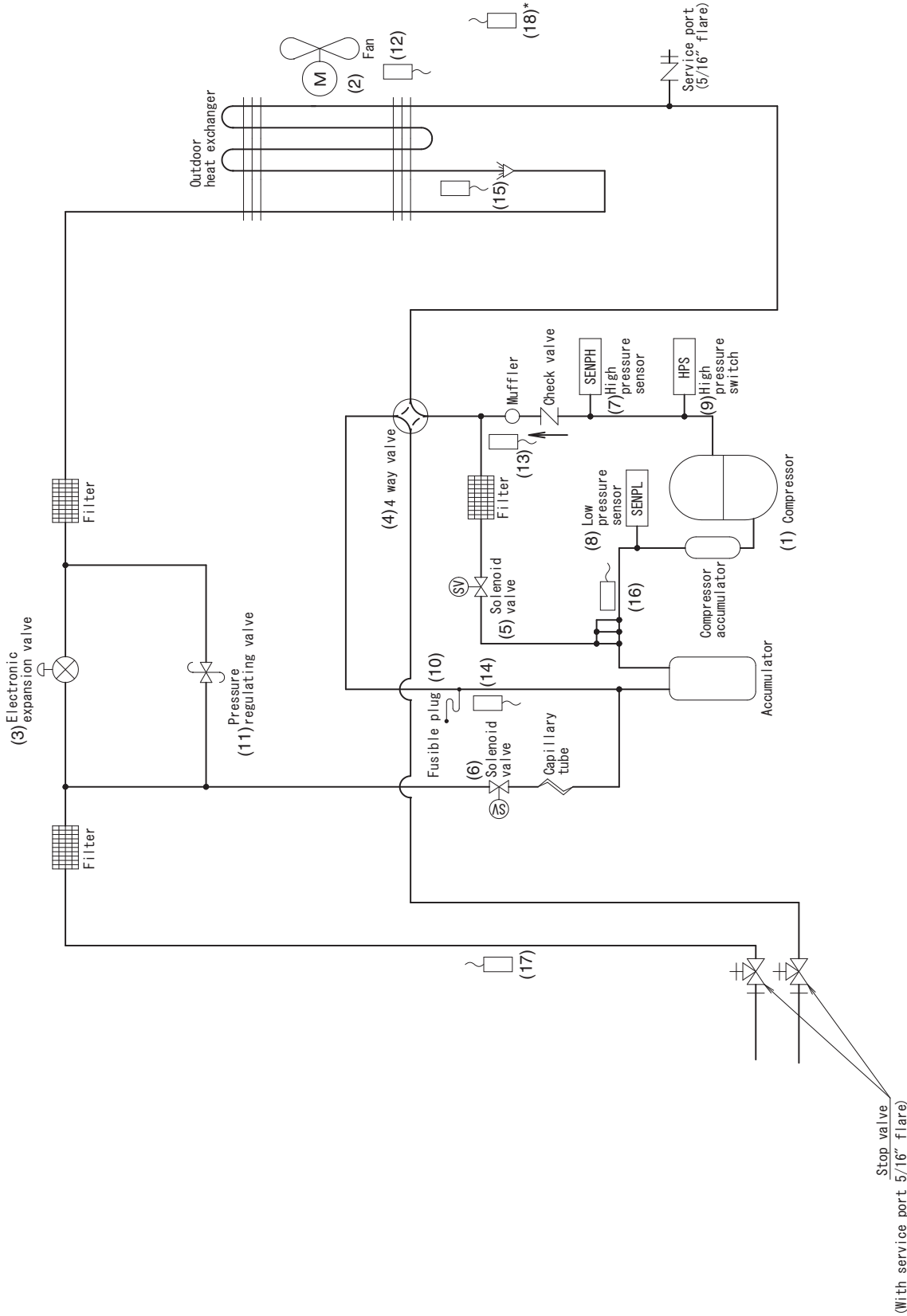
RZR18/24TAVJU, RZQ18/24TAVJU



* The radiation fin thermistor (18) is located near the electrical component box.

C: 3D082498F

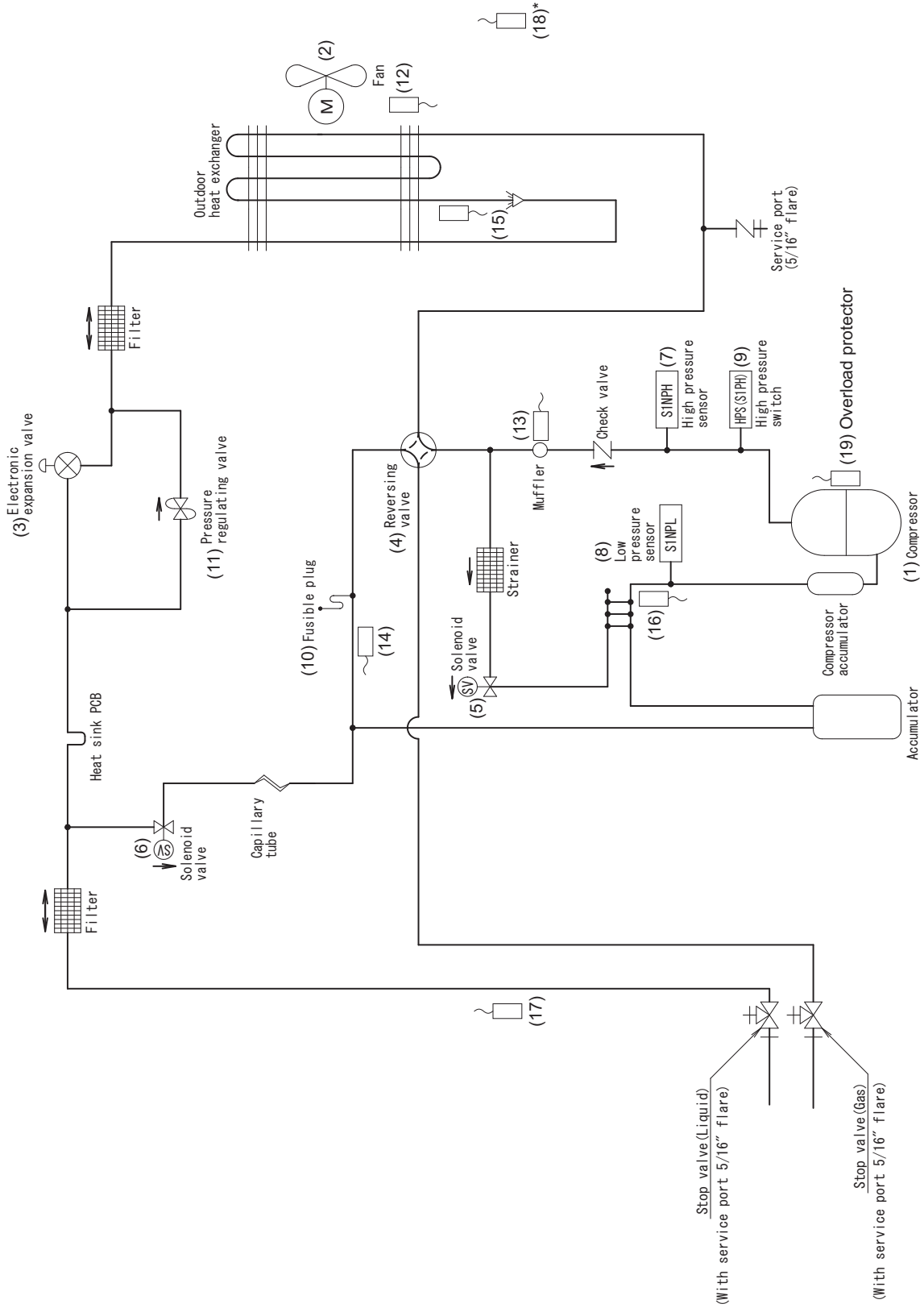
RZR18/24TAVJUA, RZQ18/24TAVJUA, RZR18/24TBVJUA, RZQ18/24TBVJUA



* The radiation fin thermistor (18) is located near the electrical component box.

C: 3D132130

RZR18/24TBVJUB, RZQ18/24TBVJUB



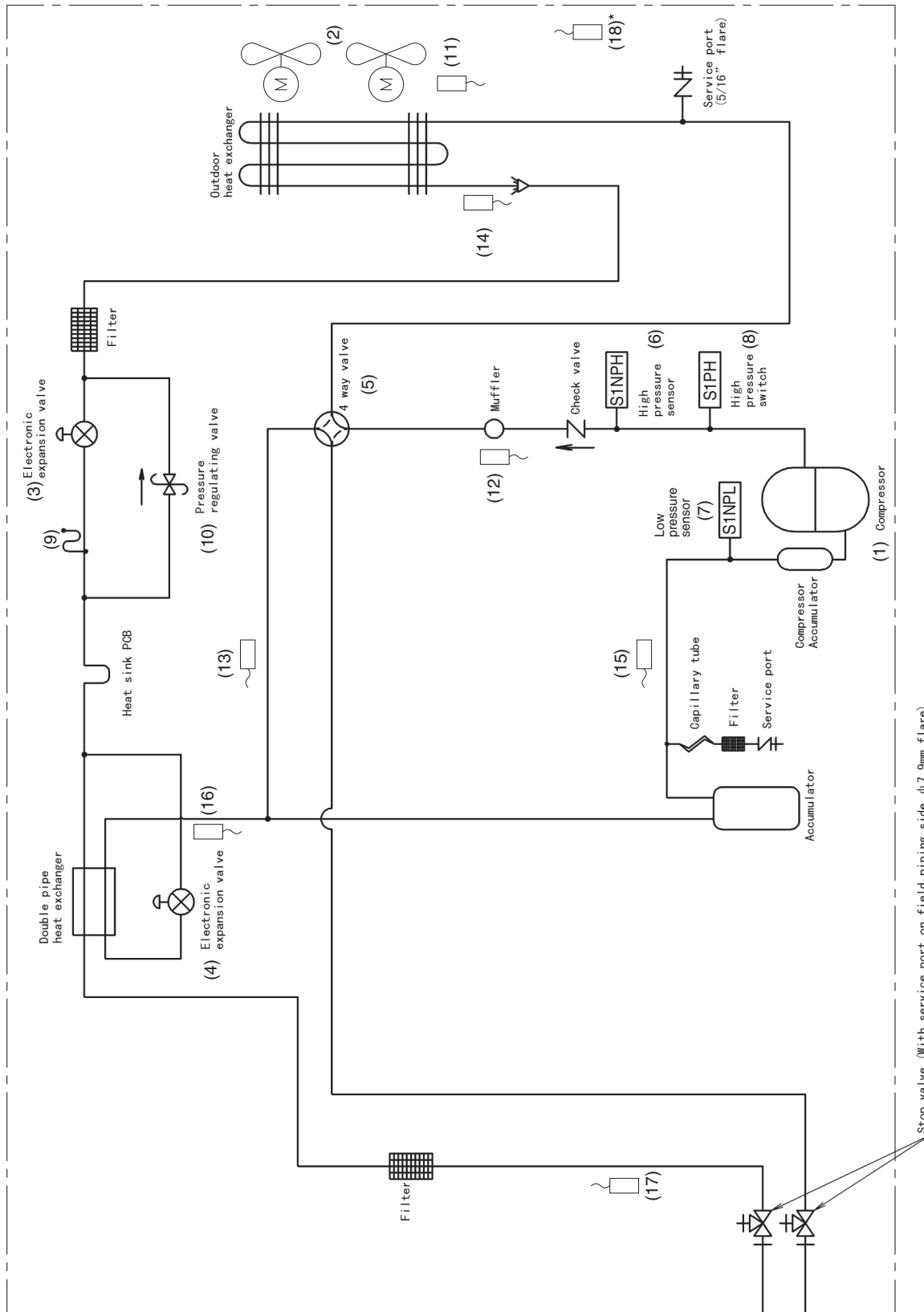
* The radiation fin thermistor (18) is located near the electrical component box.

C: 3D145492A

1.1.2 30-48 Class

| No. in piping diagram | Electric symbol | Name | Function |
|-----------------------|-----------------|--|---|
| (1) | M1C | Compressor | Compressor is operated in multi-steps according to Te and Tc. |
| (2) | M1F M2F | Fan motor | The fan rotation speed is varied by using inverter. |
| (3) | Y1E | Electronic expansion valve (Main) | While in heating operation, PI control is applied to keep the outlet superheated degree of air heat exchanger constant. |
| (4) | Y3E | Electronic expansion valve (Subcooling) | PI control is applied to keep the outlet superheated degree of subcooling heat exchanger constant. |
| (5) | Y1S | Four way valve | Used to switch the operation mode between cooling and heating. |
| (6) | S1NPH | High pressure sensor | Used to detect high pressure. |
| (7) | S1NPL | Low pressure sensor | Used to detect low pressure. |
| (8) | S1PH | High pressure switch (For compressor) | In order to prevent the increase of high pressure when an error occurs, this switch is activated at high pressure of 4.0 MPa (580 psi) or more to stop the compressor operation. |
| (9) | — | Fusible plug | In order to prevent the increase of pressure when abnormal heating is caused by fire or others, the fusible part of the plug is molten at a temperature of 70 to 75°C (158 to 167°F) to release the pressure into the atmosphere. |
| (10) | — | Pressure regulating valve (Receiver to discharge pipe) | This valve opens at a pressure of 4.0 MPa (580 psi) for prevention of pressure increase, thus resulting in no damage of functional parts due to the increase of pressure in transportation or storage. |
| (11) | R1T | Thermistor (Outdoor air: Ta) | Used to detect outdoor air temperature, correct discharge pipe temperature, and for other purposes. |
| (12) | R2T | Thermistor (Discharge pipe: Tdi) | Used to detect discharge pipe temperature, make the temperature protection control of compressor, and for other purposes. |
| (13) | R3T | Thermistor (Suction pipe1: Ts1) | Used to detect suction pipe temperature, keep the suction superheated degree constant in heating operation, and for other purposes. |
| (14) | R4T | Thermistor (Heat exchanger deicer: Tb) | Used to detect liquid pipe temperature of air heat exchanger, determine defrosting operation, and for other purposes. |
| (15) | R5T | Thermistor (Suction pipe2: Ts2) | Used to the calculation of an internal temperature of compressor etc. |
| (16) | R6T | Thermistor (Subcooling heat exchanger gas pipe: Tsh) | Used to control subcooling electronic expansion valve. |
| (17) | R7T | Thermistor (Liquid pipe: Tl) | Used to detect refrigerant overcharge in check operation, and for other purposes. |
| (18) | FINTH | Thermistor (Radiation fin) | Used for outdoor fan speed control and inverter radiation fin temperature control. |
| (19) | Q1E | Overload protector | Detects compressor surface temperature, this switch is activated at surface temperature of 125°C (257°F) or more to stop the compressor. (TBVJUB models only) |

RZR30/36/42/48TAVJU, RZQ30/36/42/48TAVJU

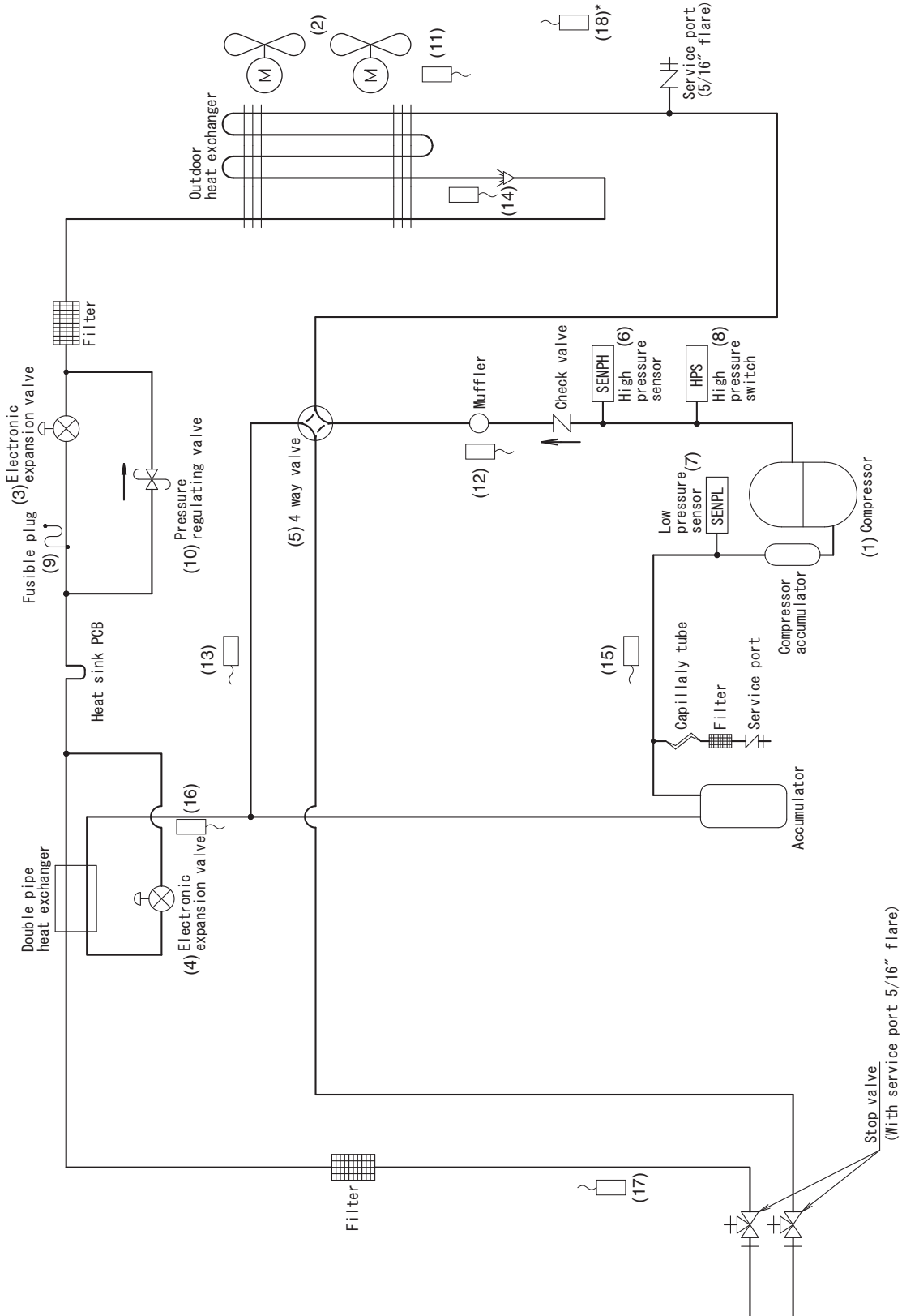


Stop valve (With service port on field piping side ϕ 7.9mm flare).

* The radiation fin thermistor (18) is located near the electrical component box.

C: 3D088595A

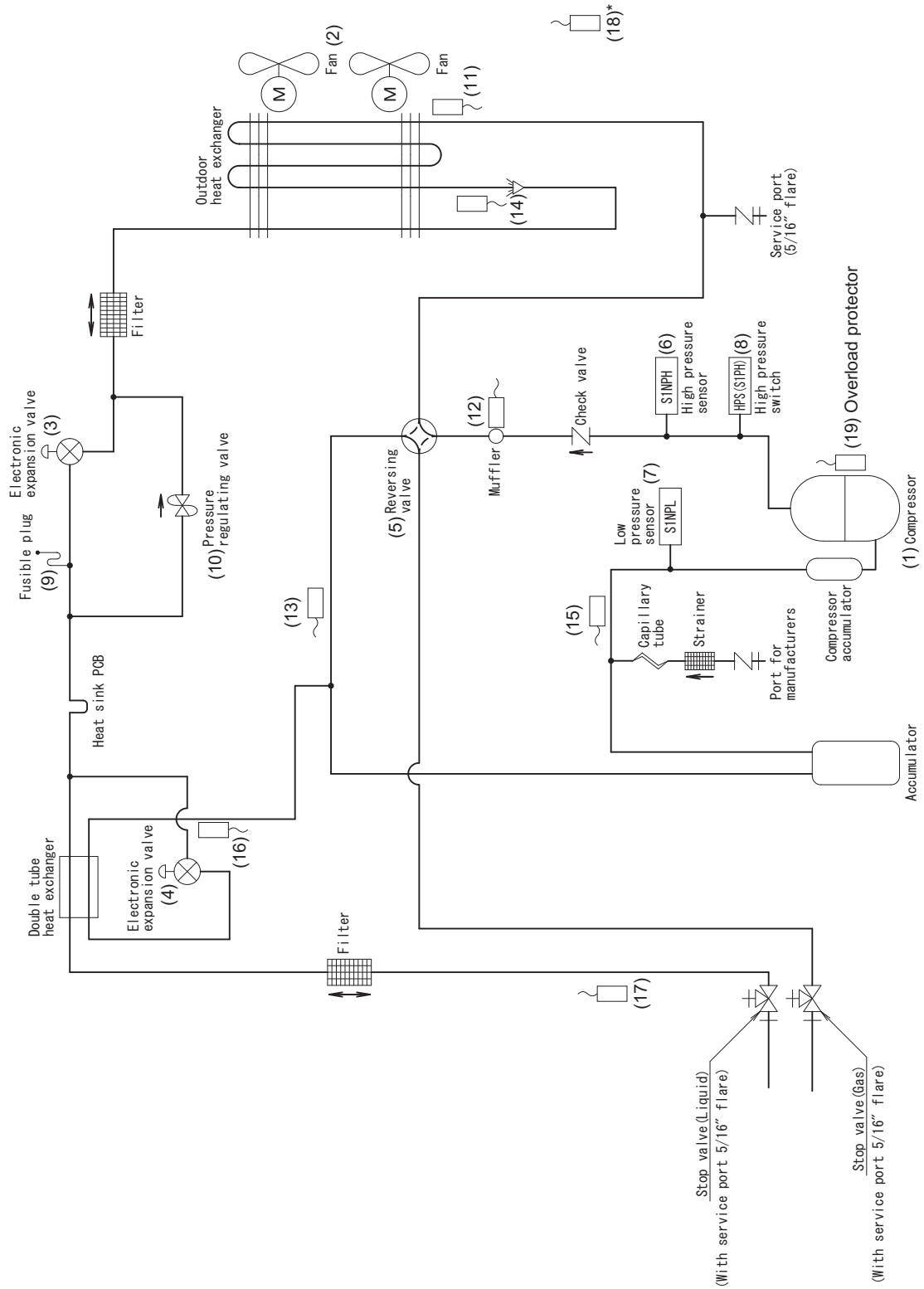
RZR30/36/42/48TAVJUA, RZQ30/36/42/48TAVJUA, RZR30/36/42/48TBVJUA, RZQ30/36/42/48TBVJUA



* The radiation fin thermistor (18) is located near the electrical component box.

C: 3D132132

RZR30/36/42/48TBVJUB, RZQ30/36/42/48TBVJUB



* The radiation fin thermistor (18) is located near the electrical component box.

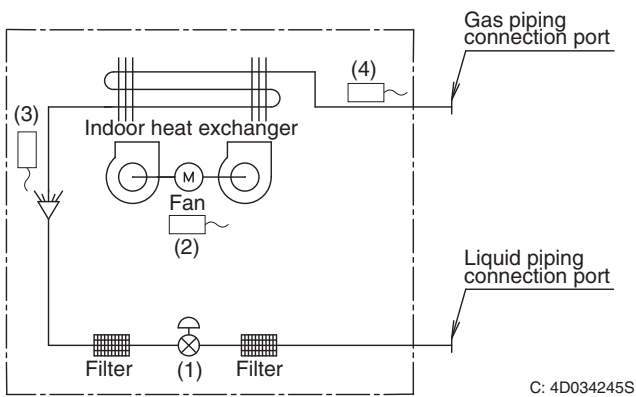
C: 3D146984A

1.2 Indoor Unit

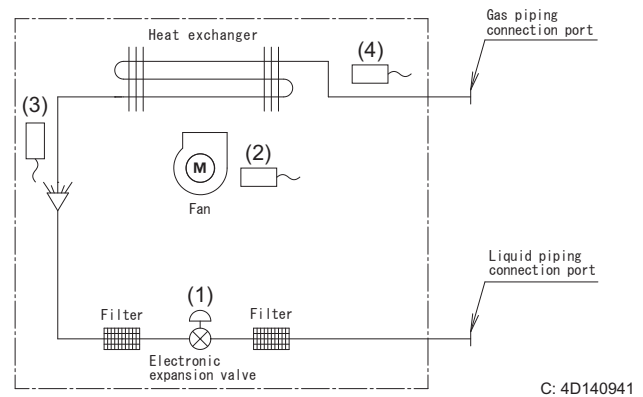
| No. in piping diagram | Name | Symbol | | | Function |
|-----------------------|----------------------------|----------------------------------|-------|------------------|--|
| | | Except FBQ-P FTQ-TA FTQ-TB | FBQ-P | FTQ-TA FTQ-TB | |
| (1) | Electronic expansion valve | Y1E | Y1E | Y1E | Used for gas superheating degree control while in cooling or subcooling degree control while in heating. |
| (2) | Suction air thermistor | R1T | R1T | R1T (*1) | Used for thermostat control. |
| (3) | Liquid pipe thermistor | R2T | R2T | R2T | Used for gas superheating degree control while in cooling or subcooling degree control while in heating. |
| (4) | Gas pipe thermistor | R3T | R3T | R3T | Used for gas superheating degree control while in cooling. |
| (5) | Discharge air thermistor | — | R4T | — | Used for discharge air temperature control. |

*1. R1T is for remote controller thermistor or optional remote sensor.

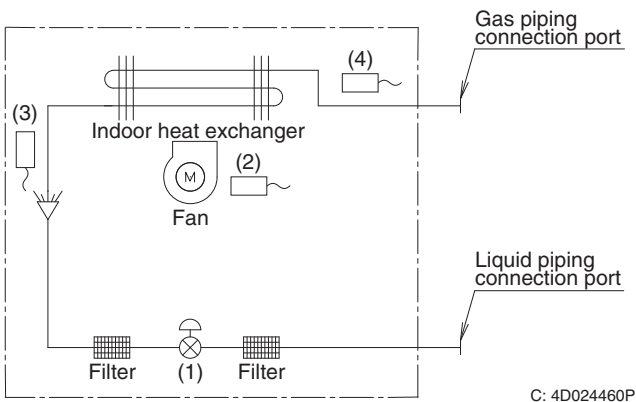
■ FCQ-TA, FAQ-TA



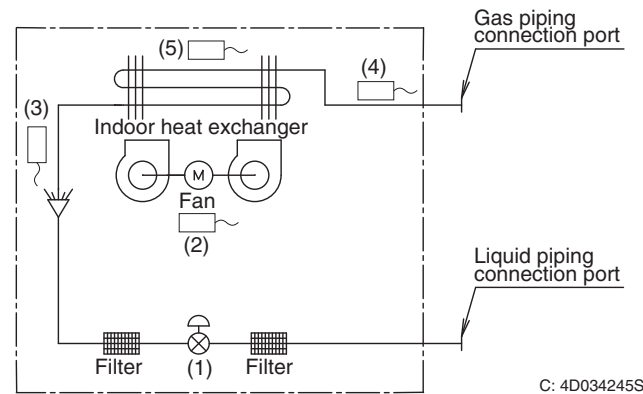
■ FCQ-AA



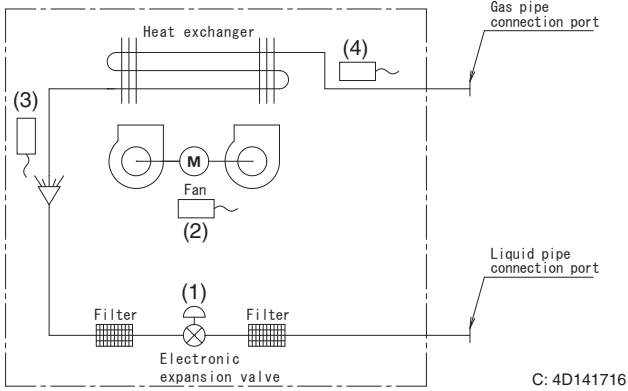
■ FHQ-P, FHQ-M



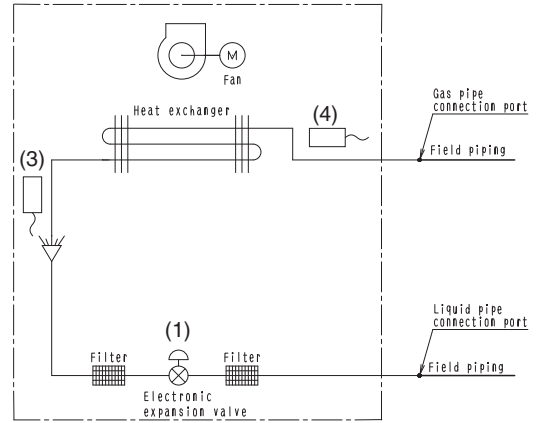
■ FBQ-P



■ FBQ-TB



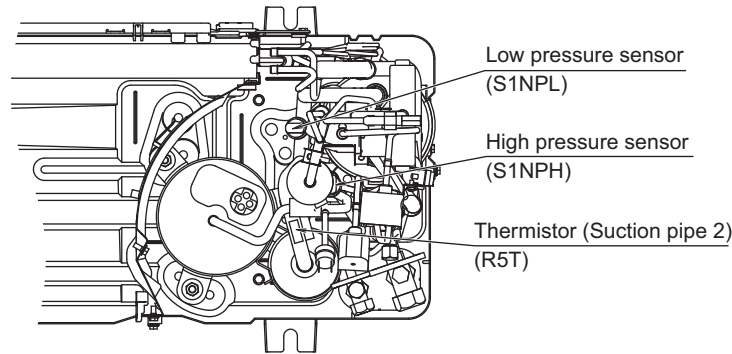
■ FTQ-TA, FTQ-TB



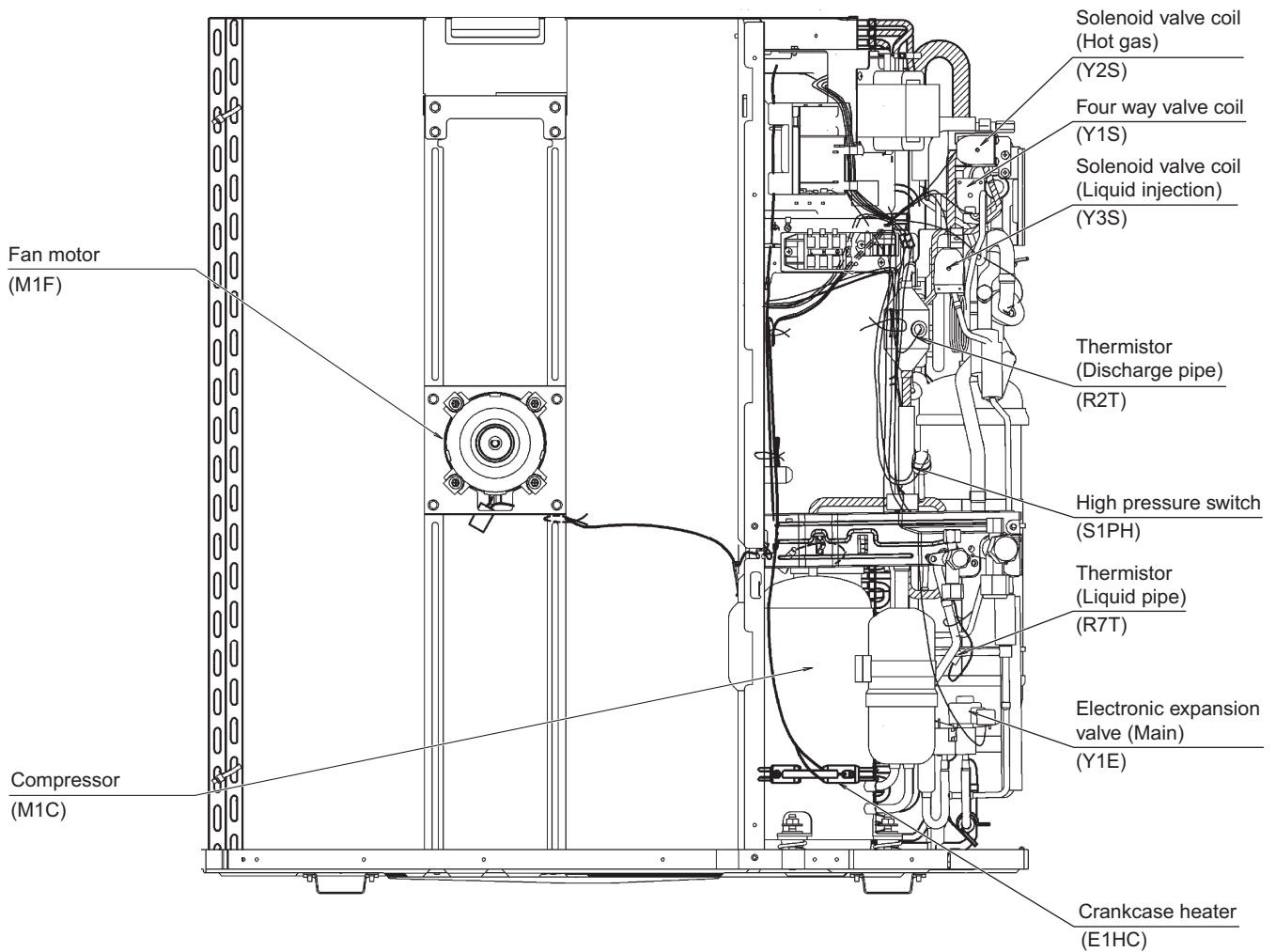
2. Functional Parts Layout

2.1 RZR18/24TAVJU, RZQ18/24TAVJU

Top view

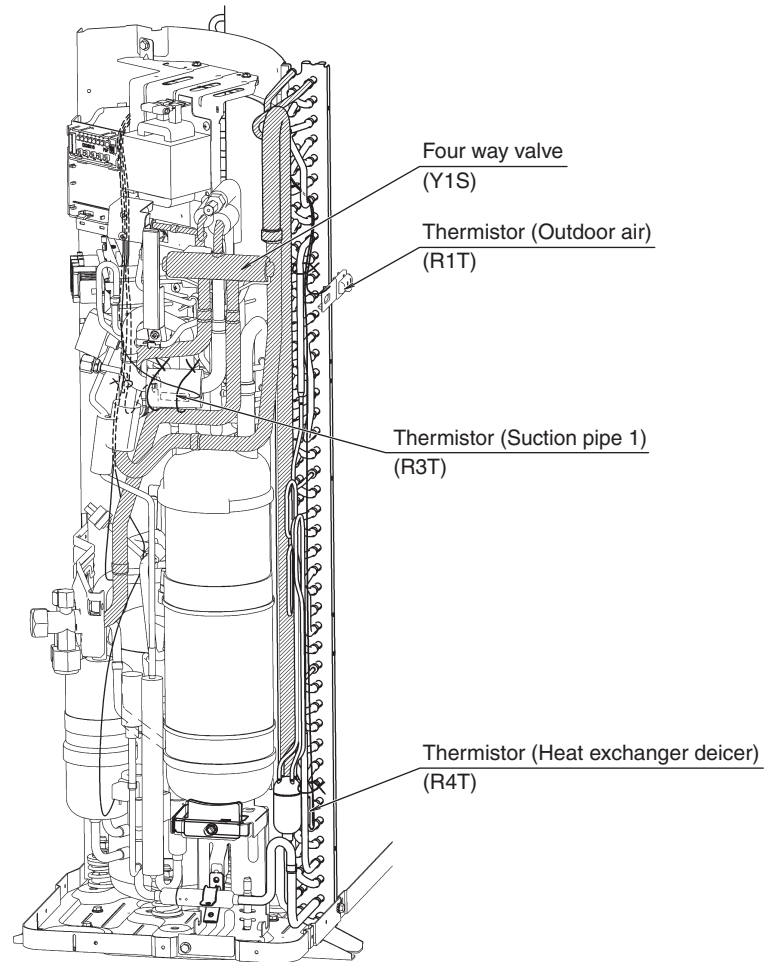


Front view



C: 1P342997N

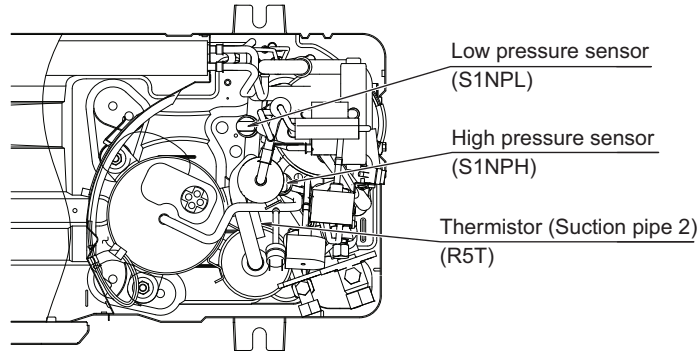
Side view



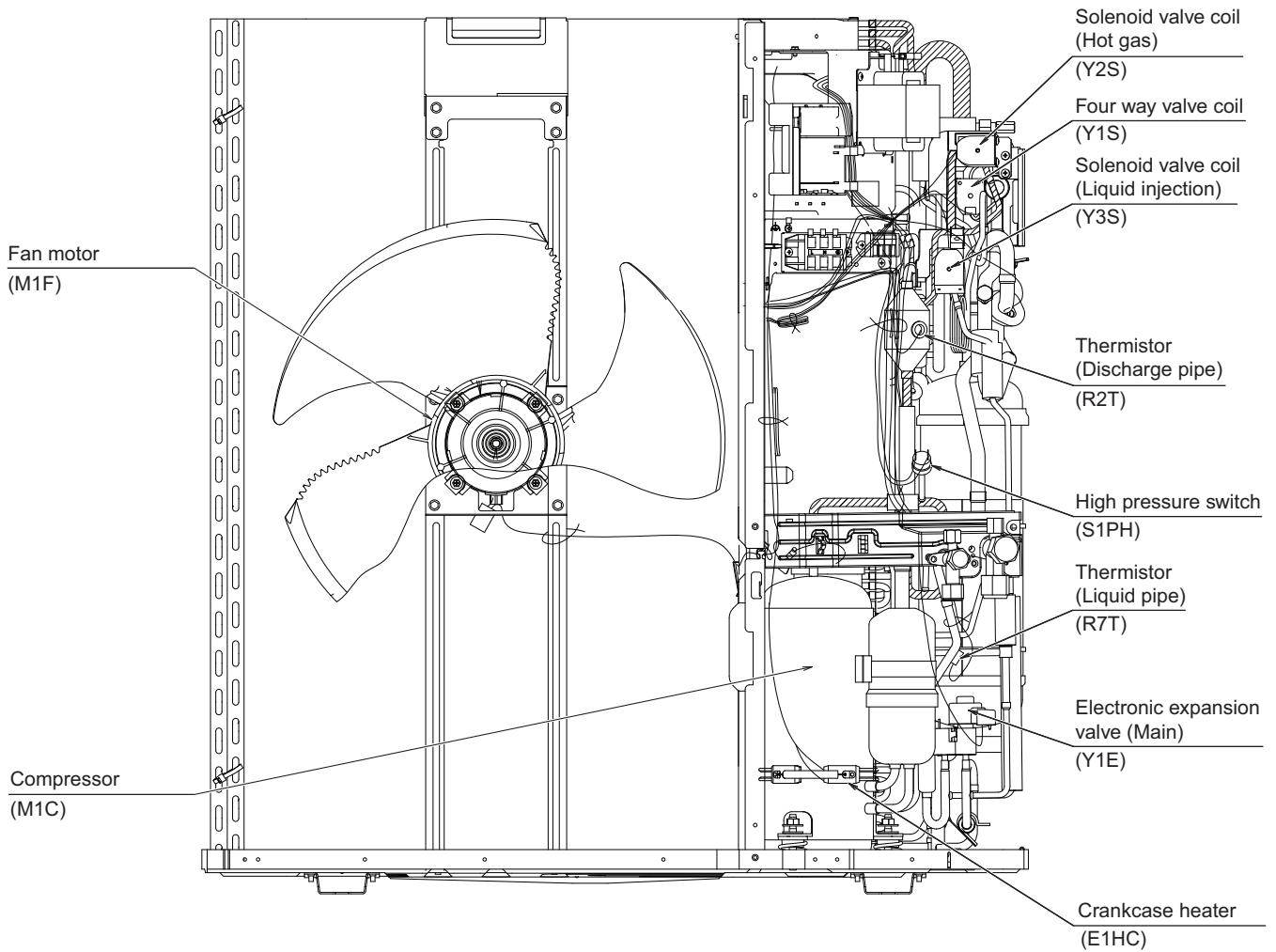
C: 1P342997N

2.2 RZR18/24TAVJUA, RZQ18/24TAVJUA, RZR18/24TBVJUA, RZQ18/24TBVJUA

Top view

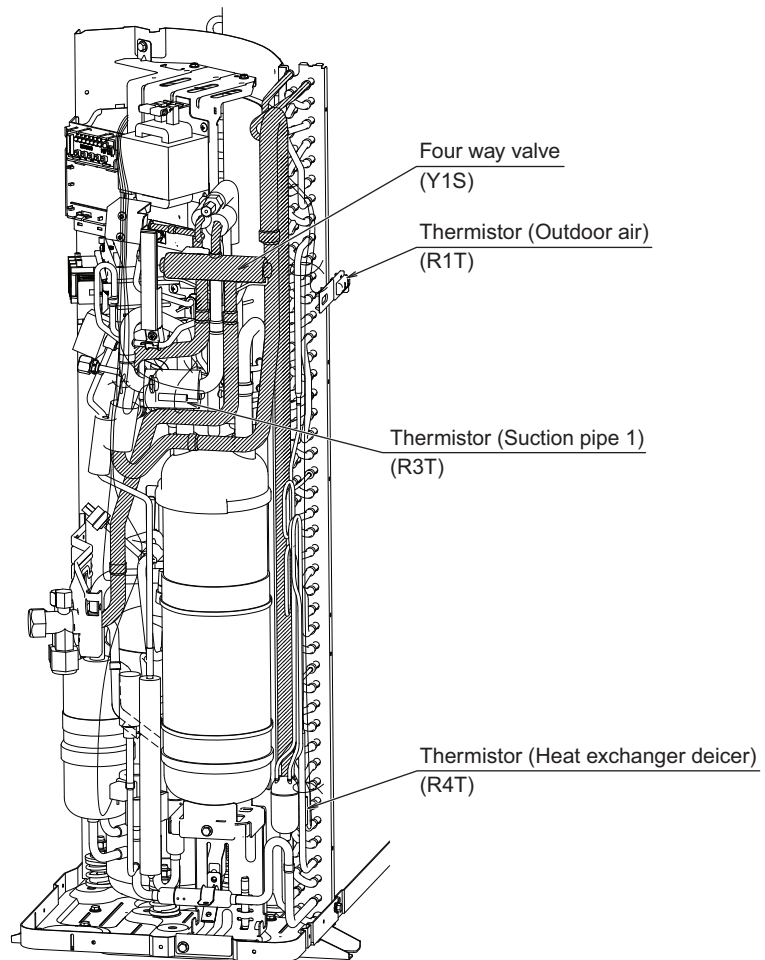


Front view



C: 1P589934G

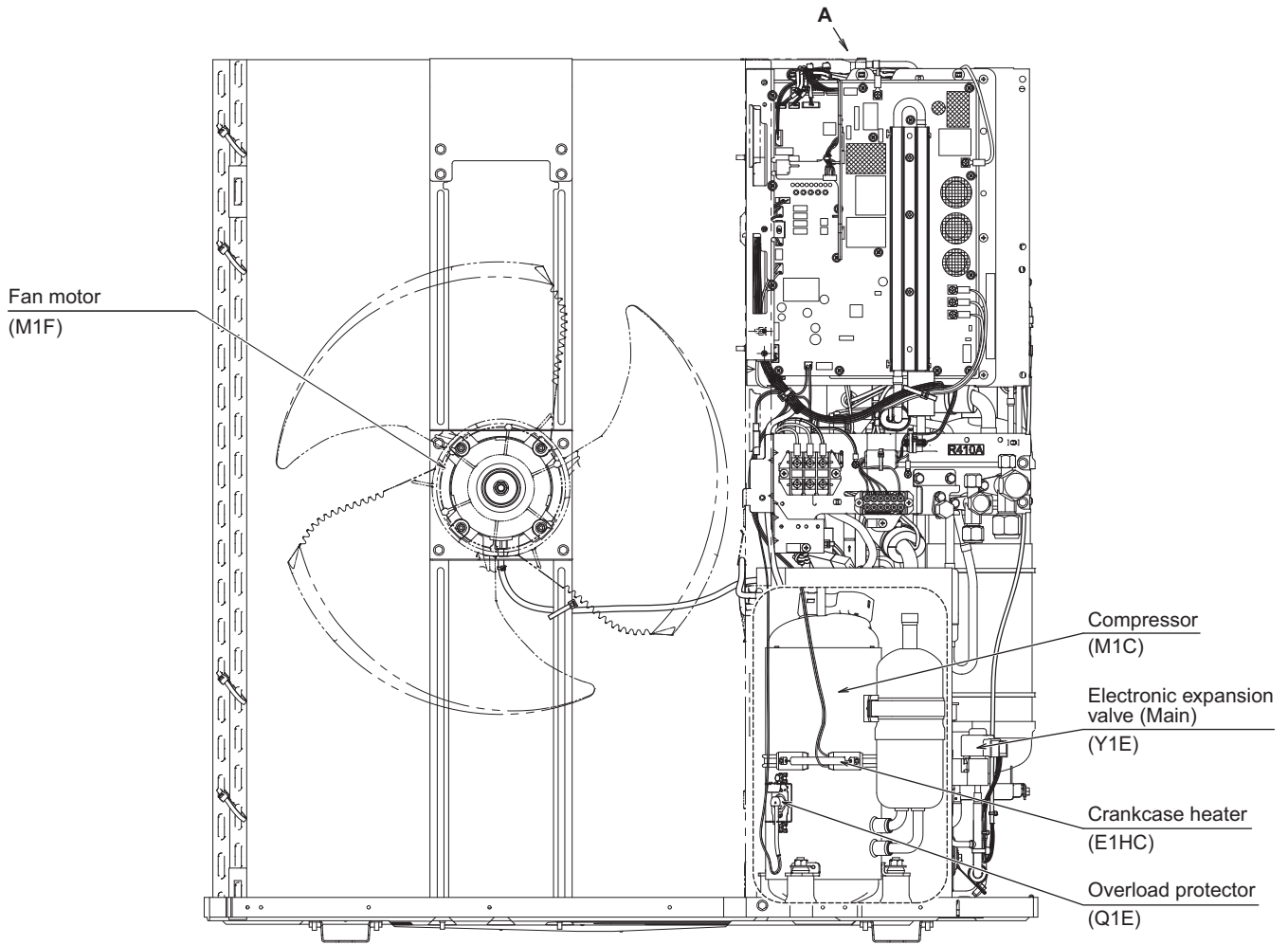
Side view



C: 1P589934G

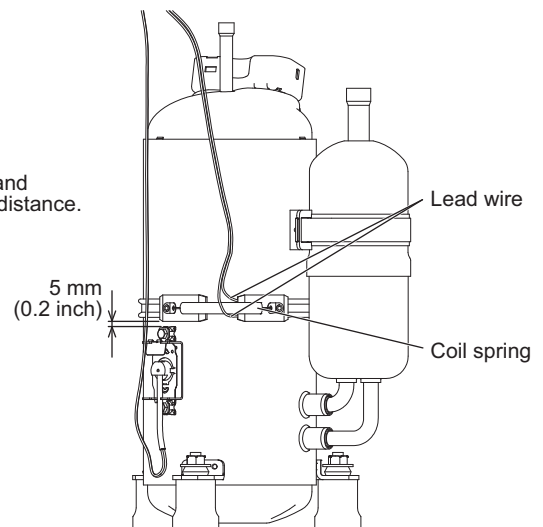
2.3 RZR18/24TBVJUB, RZQ18/24TBVJUB

Front view



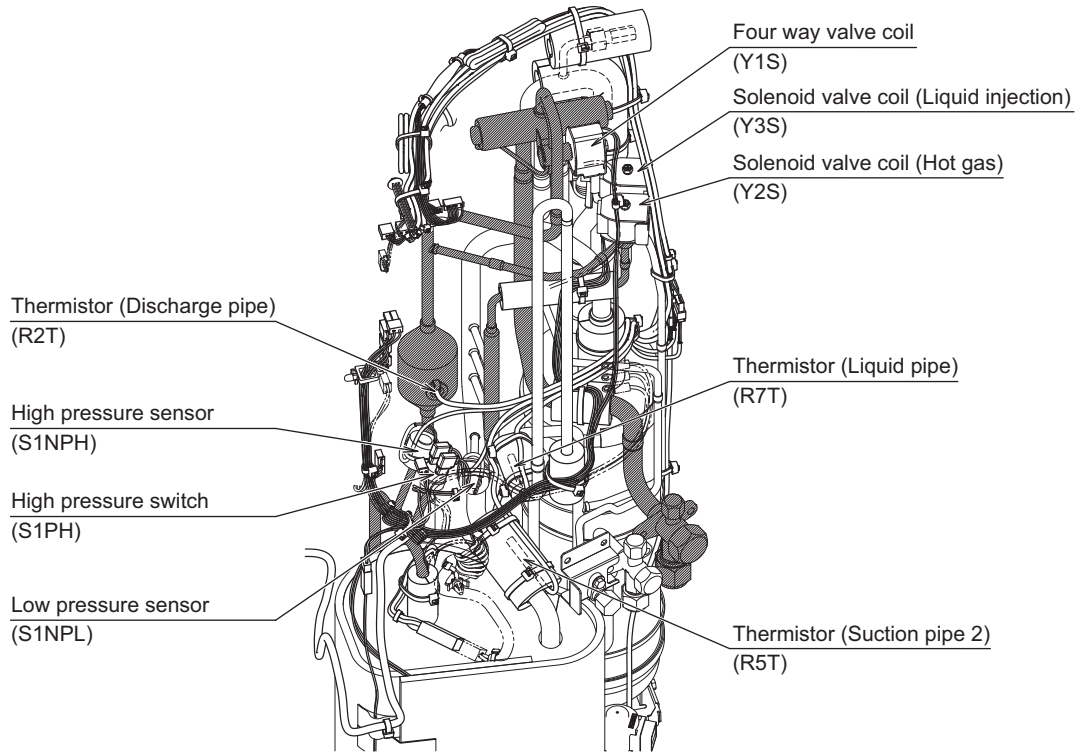
Precautions when installing the crankcase heater (E1HC)

1. The crankcase heater must not come into contact with Q1E fixture and should be mounted above the Q1E fixture with about 5 mm (0.2 inch) distance.
2. Put the coil spring of the heater between the lead wires.

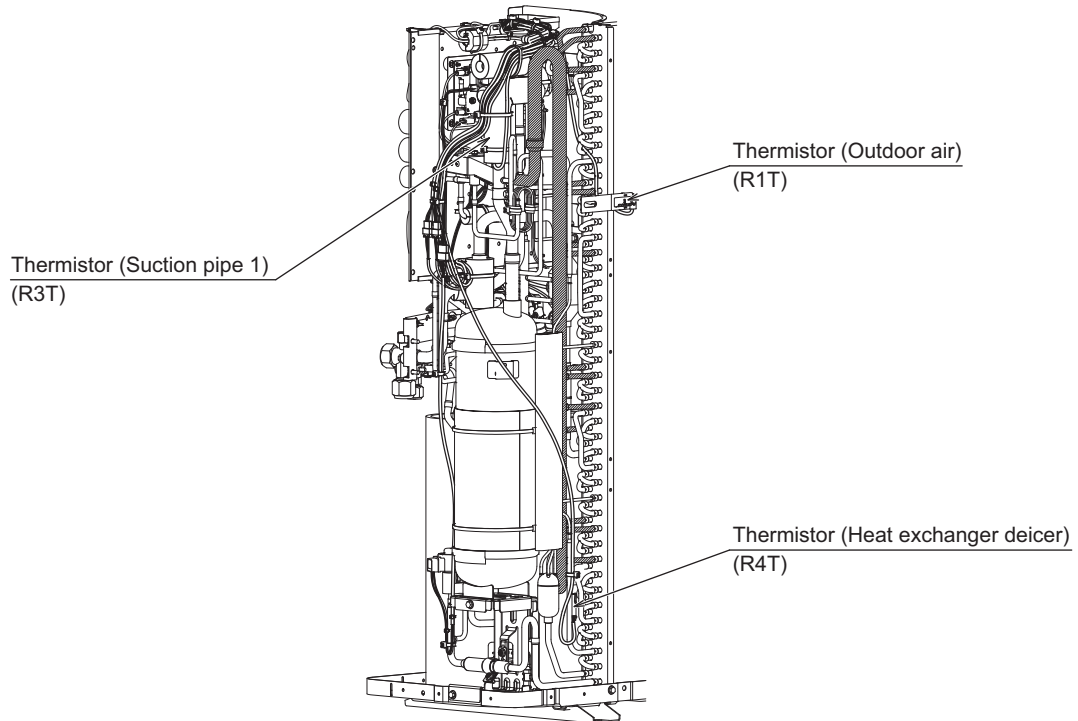


C: 1P728686G

Arrow view A



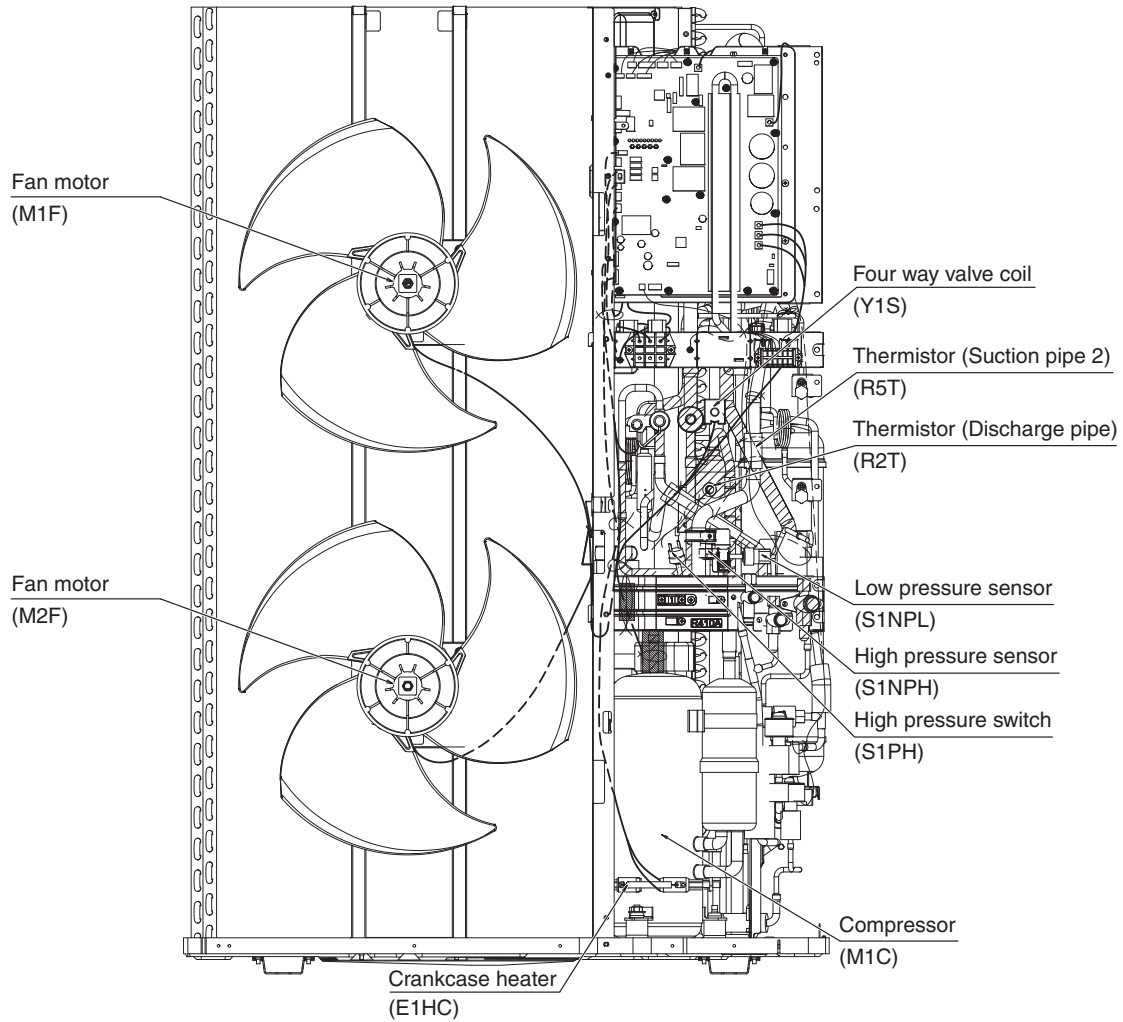
Back view



C: 1P728686G

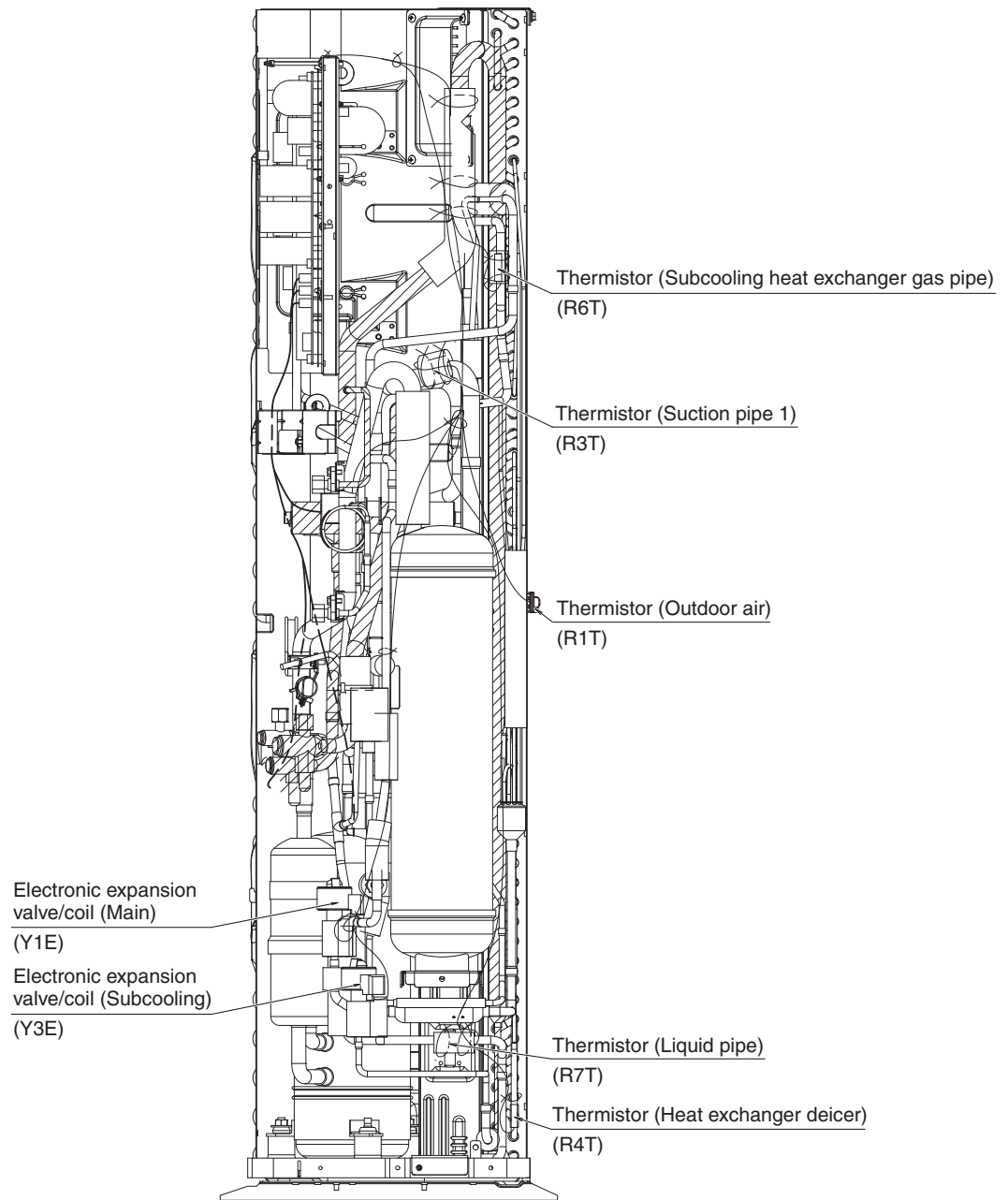
2.4 RZR30-48TAVJU, RZQ30-48TAVJU

Front view



C: 1P441643Q

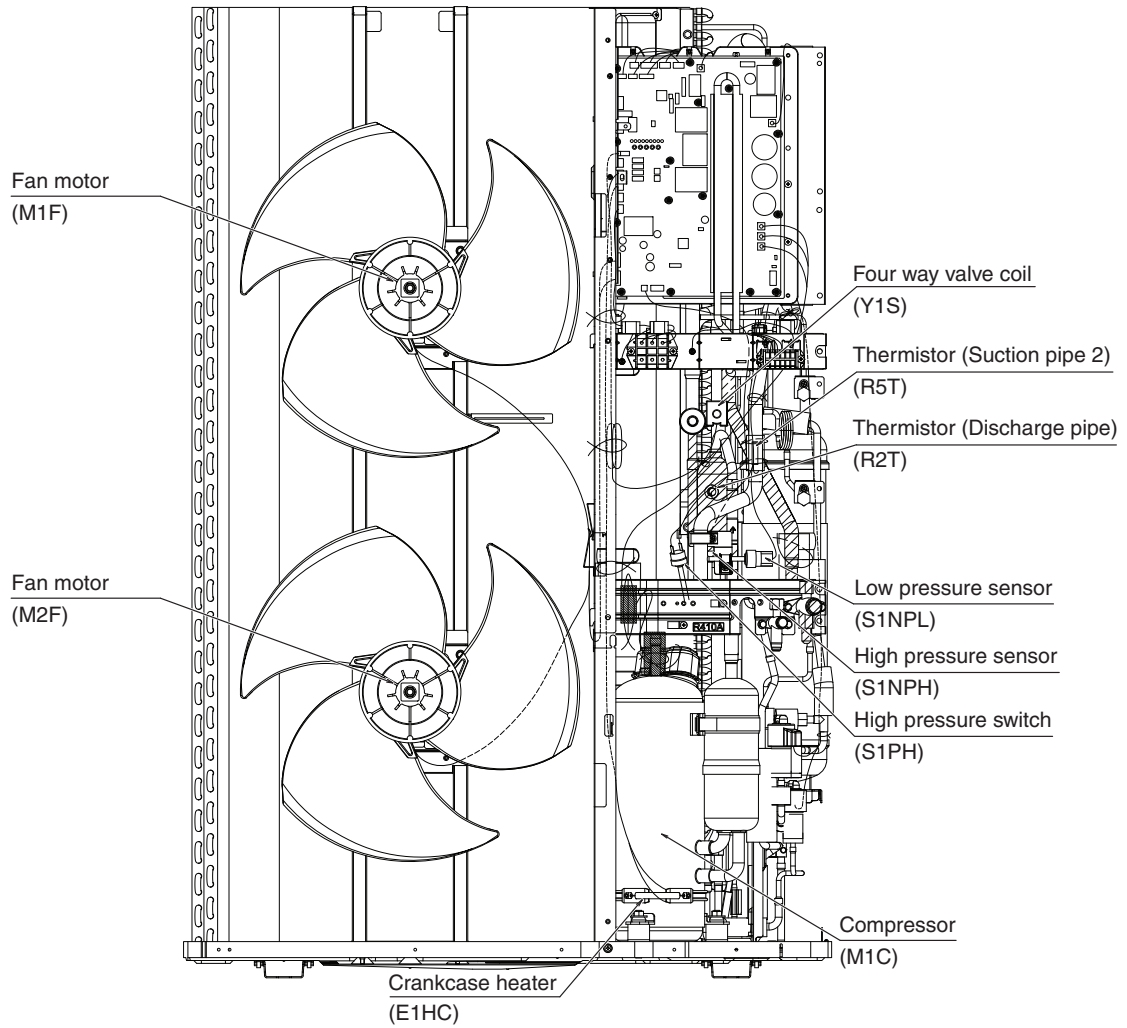
Side view



C: 1P441643Q

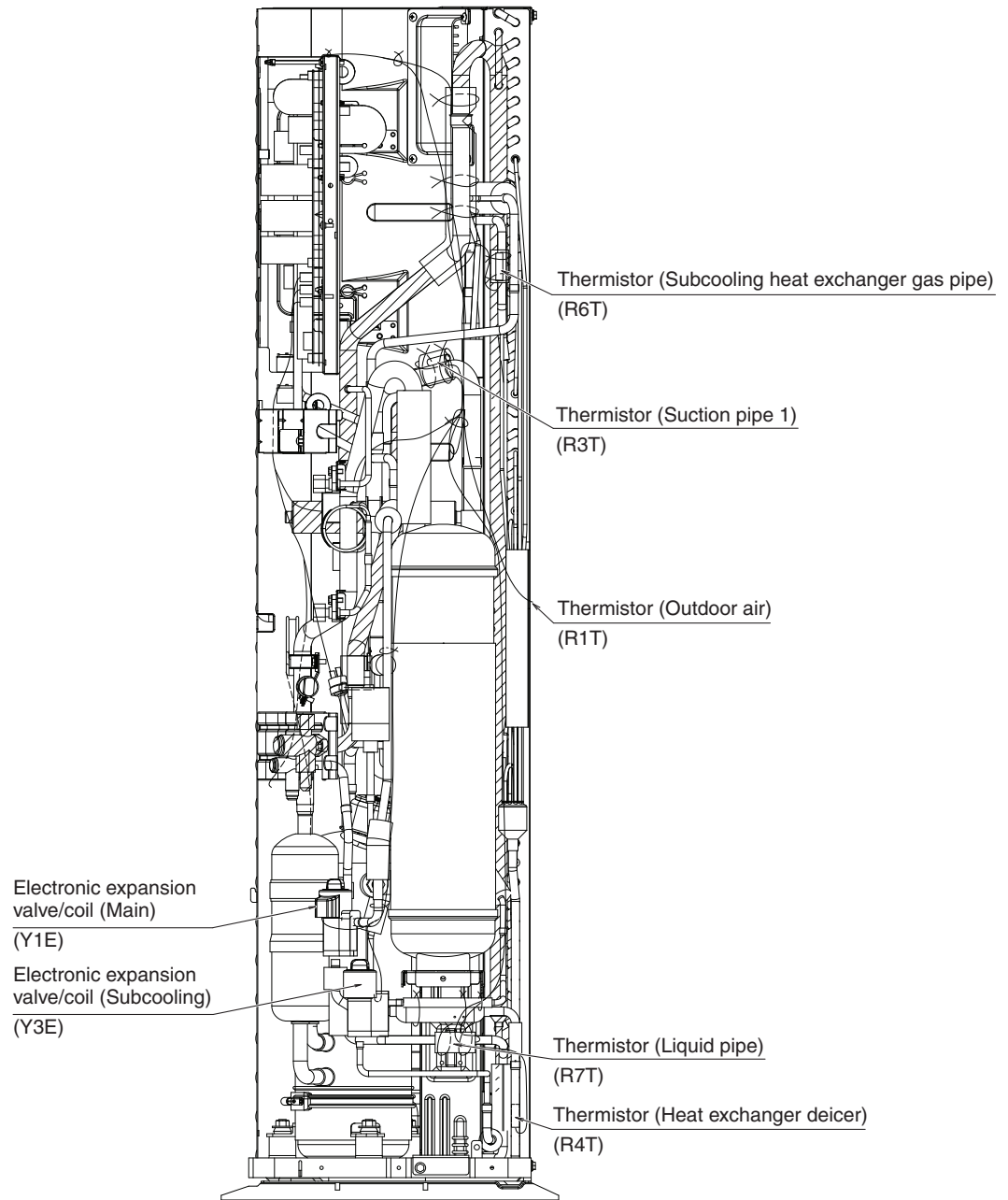
2.5 RZR30-48TAVJUA, RZQ30-48TAVJUA, RZR30-48TBVJUA, RZQ30-48TBVJUA

Front view



C: 1P589937E

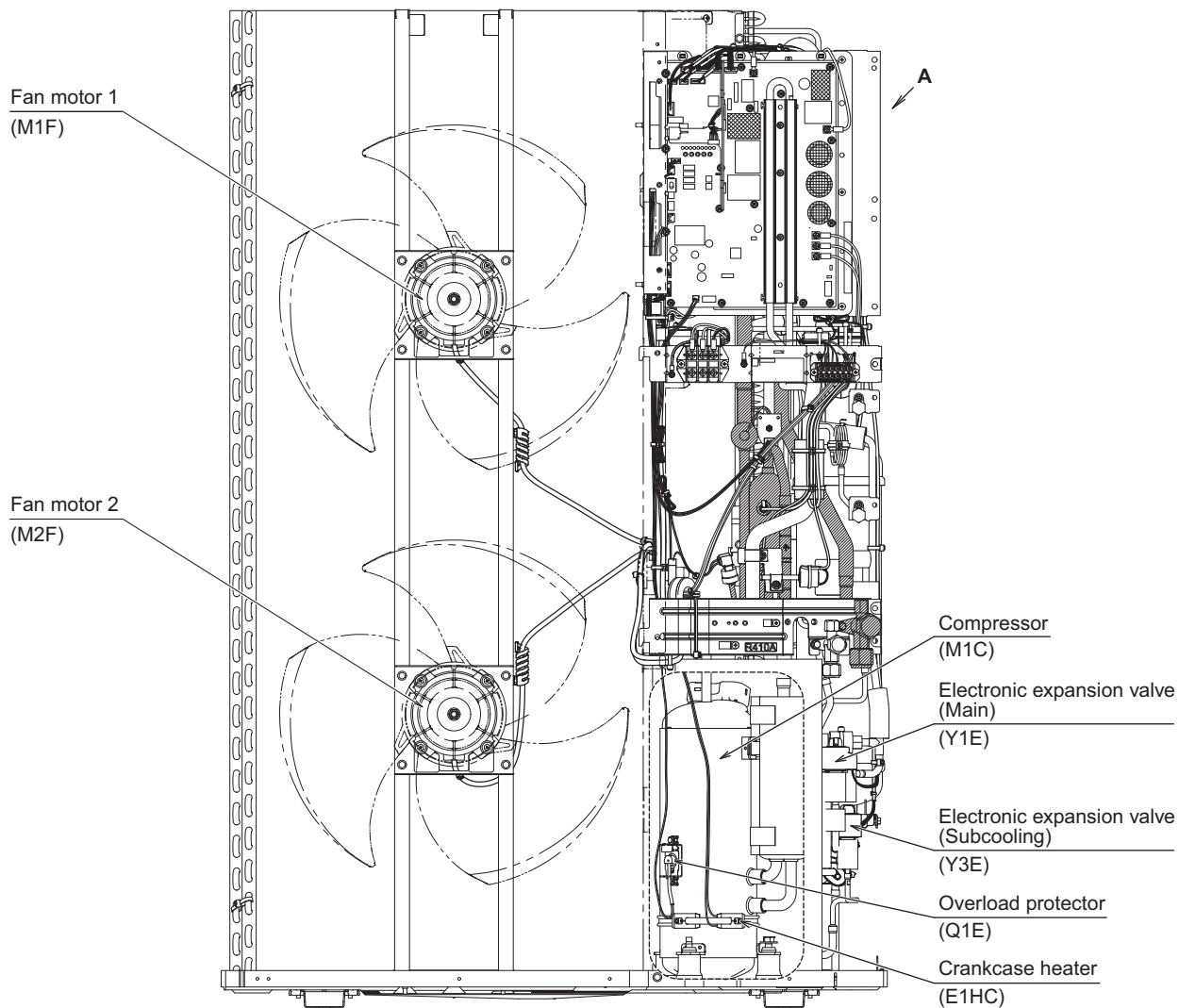
Side view



C: 1P589937E

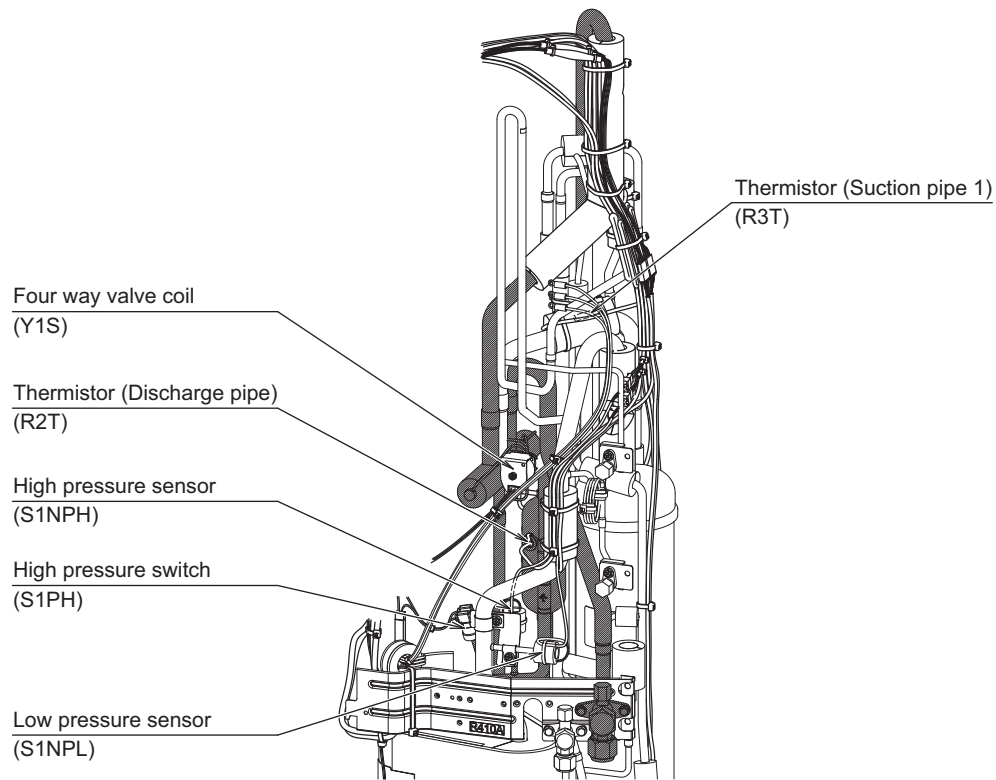
2.6 RZR30-48TBVJUB, RZQ30-48TBVJUB

Front view

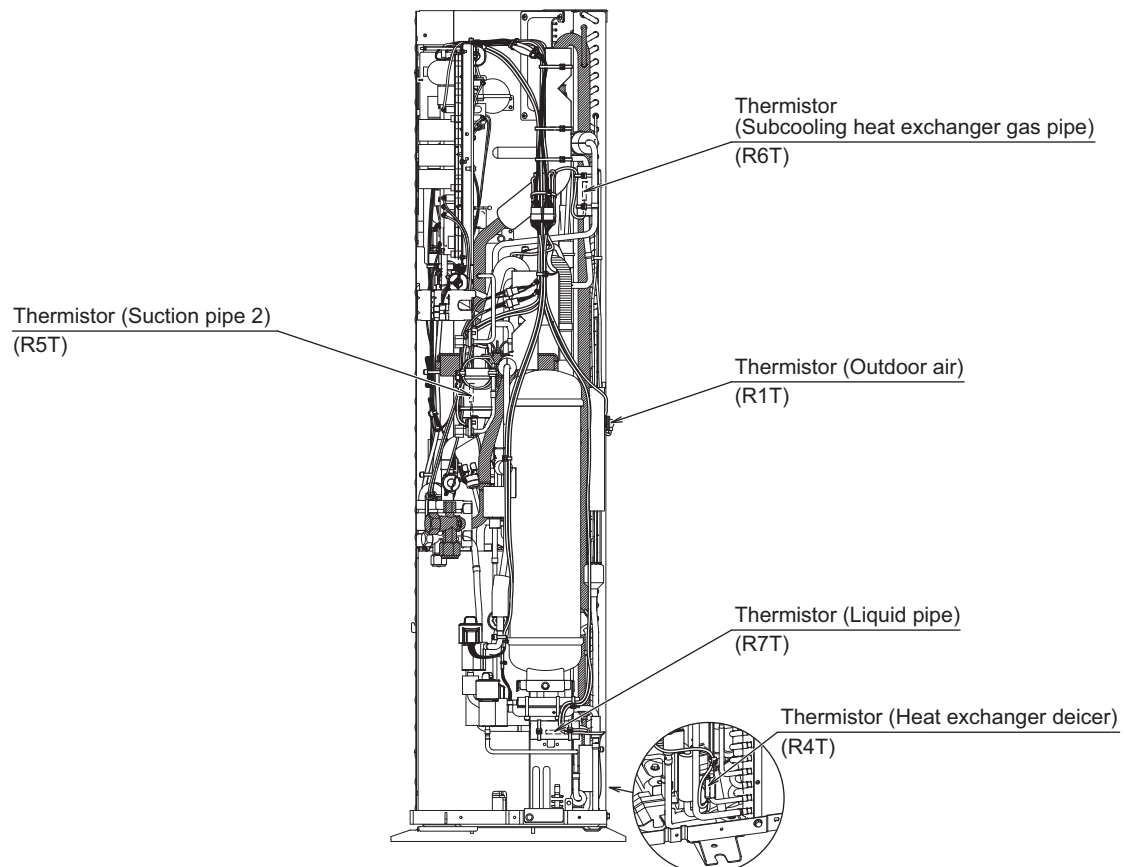


C: 1P735532G

Arrow view A



Side view



C: 1P735532G

Part 3

Remote Controller

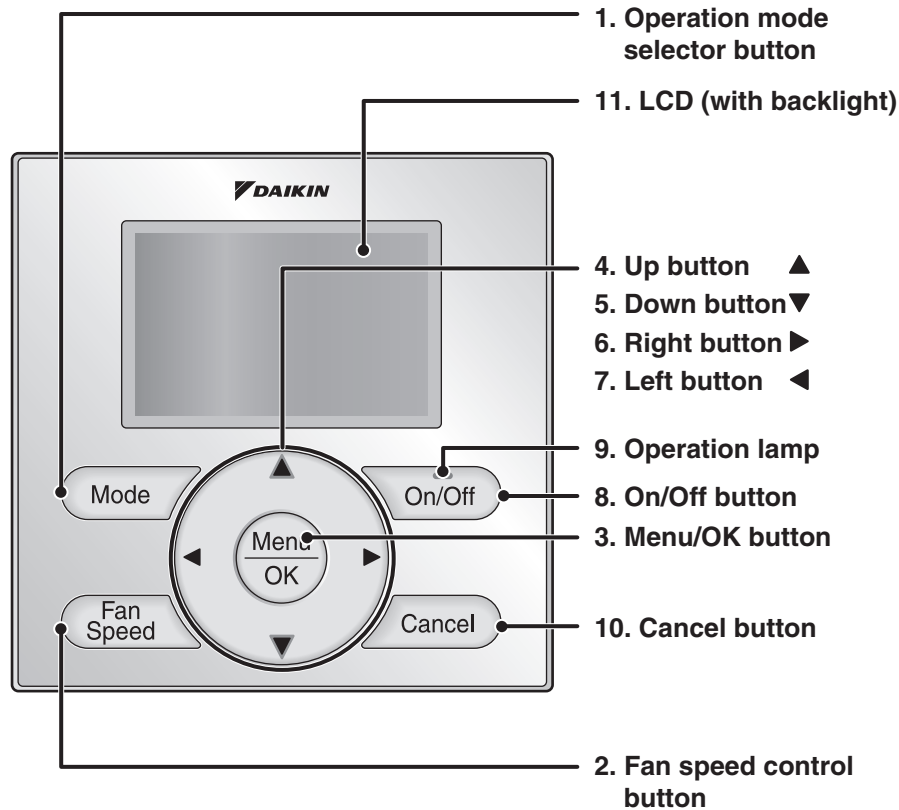
| | |
|--|-----|
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| 7.1 BRC1H71W | 168 |

1. Applicable Models

| Indoor unit | | Wired remote controller | | Simplified remote controller | Wireless remote controller |
|--|--------|-------------------------|----------|------------------------------|--|
| | | Navigation | Madoka | | |
| Ceiling mounted cassette type (round flow with sensing panel) | FCQ-TA | BRC1E73 | BRC1H71W | BRC2A71 | — |
| | FCQ-AA | | | | — |
| Ceiling suspended type | FHQ-P | | | | BRC7E83 |
| | FHQ-M | | | | BRC7E818 |
| Wall mounted type | FAQ-TA | | | | BRC4C82 (Fan: 2 steps) BRC082A43 (Fan: 3 steps) |
| HSP ceiling mounted duct type | FBQ-P | | | | BRC082A43 |
| | FBQ-TB | | | | BRC4C82 |
| Multi position air handling unit | FTQ-TA | | | | |
| | FTQ-TB | | | | |

2. Names and Functions

2.1 BRC1E73



Functions other than basic operation items (i.e., On/Off, Operation Mode, Fan Speed, and Setpoint) are set from the menu screen.



Note:

- Do not install the remote controller in places exposed to direct sunlight, the LCD will be damaged.
- Do not pull or twist the remote controller cord, the remote controller may be damaged.
- Do not use objects with sharp ends to press the buttons on the remote controller damage may result.

1. Operation mode selector button

- Press this button to select the operation mode of your preference.
* Available modes vary with the indoor unit model.

2. Fan speed control button

- Press this button to select the fan speed of your preference.
* Available fan speeds vary with the indoor unit model.

3. Menu/OK button

- Used to enter the main menu.
- Used to enter the selected item.

4. Up button ▲

- Used to raise the setpoint.
- The item above the current selection will be highlighted.
(The highlighted items will be scrolled continuously when the button is continuously pressed.)
- Used to change the selected item.

5. Down button ▼

- Used to lower the setpoint.
- The item below the current selection will be highlighted.
(The highlighted items will be scrolled continuously when the button is continuously pressed.)
- Used to change the selected item.

6. Right button ►

- Used to highlight the next items on the right-hand side.
- Each screen is scrolled in the right-hand direction.

7. Left button ◀

- Used to highlight the next items on the left-hand side.
- Each screen is scrolled in the left-hand direction.

8. On/Off button

- Press this button and system will start.
- Press this button again to stop the system.

9. Operation lamp

- This lamp illuminates solid green during normal operation.
- This lamp blinks if an error occurs.

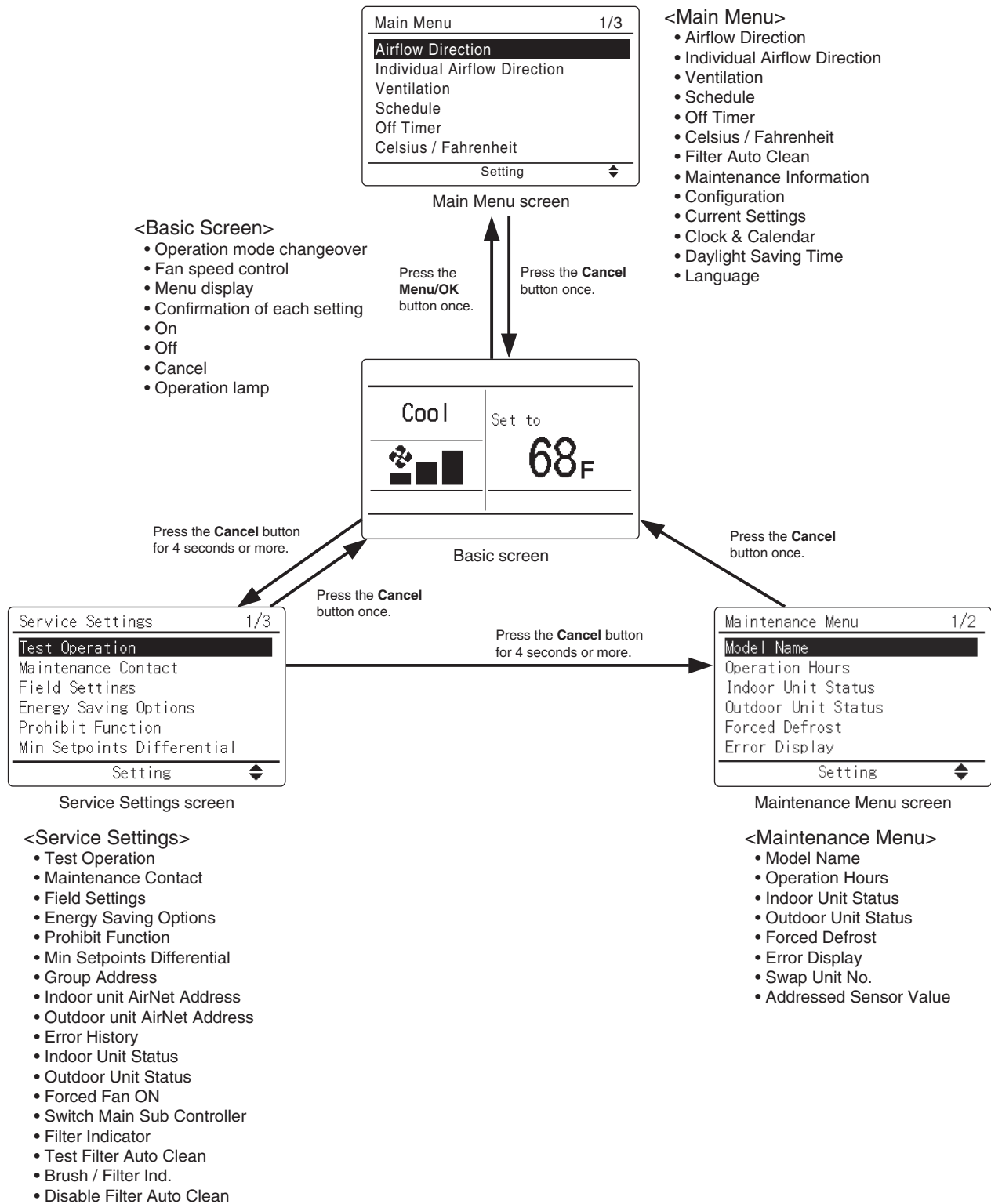
10. Cancel button

- Used to return to the previous screen.

11. LCD (with backlight)

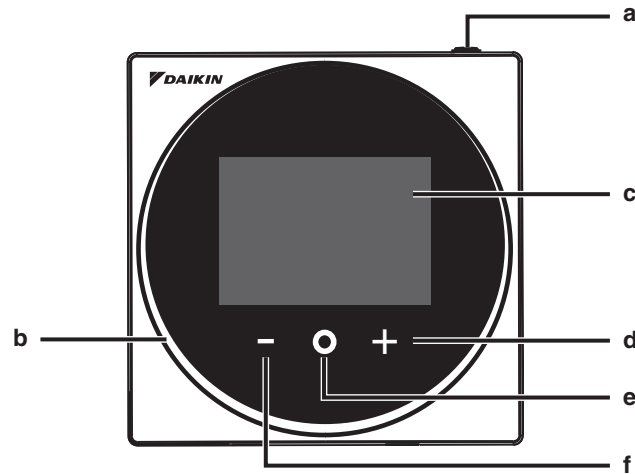
- The backlight will be illuminated for approximately 30 seconds by pressing any button.
- If two remote controllers are used to control a single indoor unit, only the controller accessed first will have backlight functionality.





Service Check Function



2.2 BRC1H71W

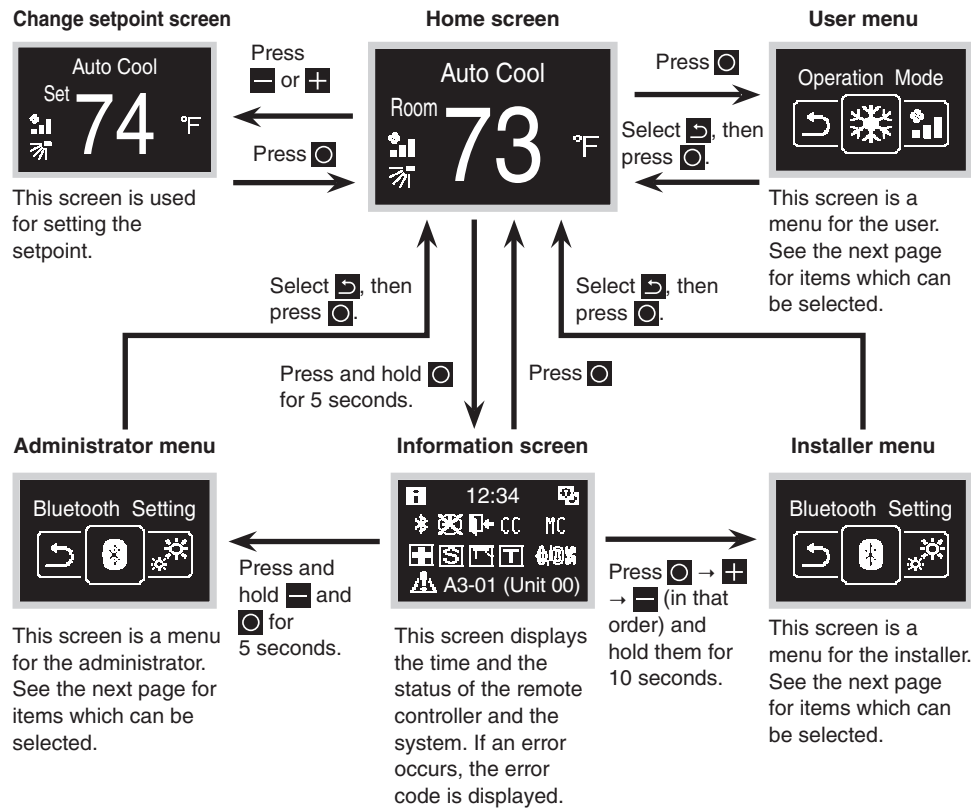
2.2.1 Button Locations and Descriptions



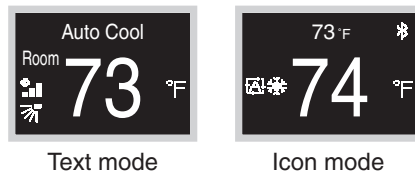
- a**  **ON/OFF button**
- Press this button to turn on the system.
 - Press this button again to turn off the system.
- b** **Status indicator (LED)**
- During operation, the light ring around the display lights up blue/red/green.
Lights up blue: Operating, Blinks red: Error is occurring, Lights up/blinks green: Bluetooth connecting
- c** **LCD**
- Displays the current setpoint and air conditioner operation status.
- d**  **NAVIGATE/ADJUST button**
- Navigate right.
 - Adjust a setting.
- e**  **SELECT/ACTIVATE/SET button**
- From the home screen, enter the user menu.
 - From the user menu, enter one of the submenus.
 - From their respective submenu, activate an operation/ventilation mode.
- f**  **NAVIGATE/ADJUST button**
- Navigate left.
 - Adjust the setting.

2.2.2 Overview of Screens






The following is just an example. The items available for setting vary depending on the indoor unit you are using. If there is no button operation for about 10 seconds, the screen returns to the home screen.
















There are 2 screen display modes, text mode and icon mode.
 Change the mode according to your preference.
 * All of the above explanations are shown with screens from text mode.



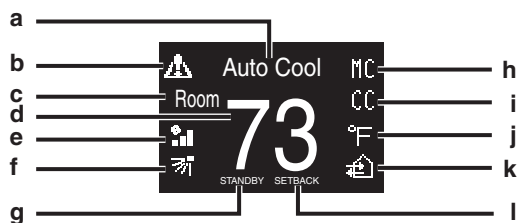
2.2.3 Setting Screen List

| Setting list | | | User menu | Administrator menu | Installer menu |
|---|--------------------|--|-----------|--------------------|----------------|
| Icon | Name | Description | | | |
| Depends on current setting | Operation Mode | Operation mode setting | ● | | |
| Depends on current setting | Fan Speed | Airflow rate setting | ● | | |
| Depends on current setting | Airflow Direction | Airflow direction 1 setting | ● | | |
| Depends on current setting | Vertical Airflow | Airflow direction 2 setting | ● | | |
| Depends on current setting | Ventilation Mode | Ventilation mode setting | ● | | |
| Depends on current setting | Ventilation Rate | Ventilation rate setting | ● | | |
|  | Adjust LED (ON) | LED brightness adjustment when backlight lights up | ● | | |
|  | Adjust LED (OFF) | LED brightness adjustment when backlight lights up dimly | ● | | |
|  | Celsius/Fahrenheit | Fahrenheit/Celsius changeover | ● | | |
|  | Setpoint | Setpoint setting when in auto operation mode | ● | | |
|  | Sign Reset | Filter sign reset | ● | | |

| Setting list | | | User menu | Administrator menu | Installer menu |
|---|--------------------|-------------------------------------|-----------|--------------------|----------------|
| Icon | Name | Description | | | |
|  | Bluetooth Setting | Bluetooth setting | | ● | ● |
|  | Backlight | Backlight brightness setting | | ● | ● |
|  | Contrast | Contrast setting | | ● | ● |
|  | Clock Setting | Clock setting | | ● | ● |
|  | Standard Temp | Scale reference temperature setting | | ● | ● |
|  | About | Administrator information | | ● | ● |
|  | Admin Password | Administrator password setting | | ● | |
|  | Installer Password | Installer password setting | | | ● |
|  | Field Setting | Field Setting | | | ● |
|  | R/C Setting | R/C Setting | | | ● |
|  | Address Setting | Address Setting | | | ● |
|  | Forced Fan ON | Forced Fan ON Setting | | | ● |
|  | Rel Master Control | Release changeover master | | | ● |

2.2.4 Names and Functions

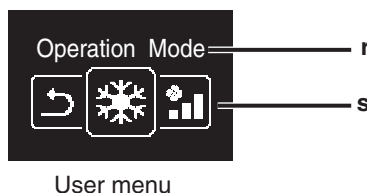
Home screen



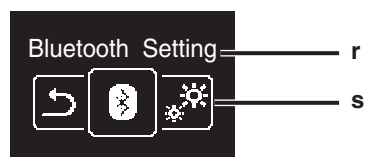
Information screen



User menu/Administrator menu/Installer menu



User menu



Administrator menu/Installer menu

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i INFORMATION

Depending on the connected model, some items may not be displayed.

The controller is equipped with a power-saving function that darkens the display if there is no operation for a certain period of time. To make the screen light up again, press one of the buttons.

Note that pressing one of the buttons will only make the display bright again, not cause remote controller operation.

* All screens shown are from text mode.

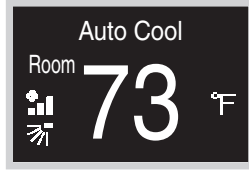
Screen display explanation

- a Operation mode/OFF display**
 - Displays the operation status.
- b Error/Filter/Test icon**
 - Error, filter and test icons are displayed.
- c Room/Set**
 - Indicates whether it's a room temperature display (Room) or setpoint display (Set).
- d Room temperature/Set temperature**
 - Displays the current room or setpoint temperature.
- e Fan speed**
 - Displays the set fan speed.
- f Airflow direction**
 - Displays the set airflow direction.
- g STANDBY**
 - Displays during defrost/hot start.
- h Changeover controlled by the master indoor unit**
 - Displayed when another indoor unit on the system has the authority to change the operation mode between cool and heat.
- i Under centralized control**
 - Displayed if the system is under the management of a multi-zone controller (Optional) and the operation of the system through the remote controller is limited.
- j Fahrenheit/Celsius**
 - Depending on the setting, Fahrenheit/Celsius display can be selected.
- k Ventilation operation/Air Purify**
 - Displayed when a Heat Reclaim Ventilator is connected.
- l Setback**
 - Blinks during setback operation.
 - Displayed during setback setting.
- m Information icon**
- n Clock (24 hours time display)**
- o MAIN/SUB remote controller sign**
- p Status**
 - Notifies the status.
- q Error display**
 - If an error occurs, the icon, an error code and unit number are displayed.
- r Settings menu name**
- s Settings menu icon**

Home screen list

There are 4 types of home screen.
 The home screen type can be changed by the remote controller setting.

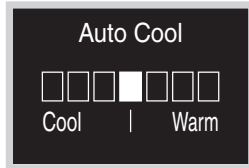
Text mode



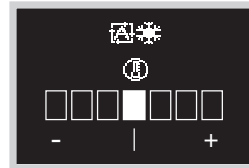
Icon mode



Text mode (Scale screen)



Icon mode (Scale screen)



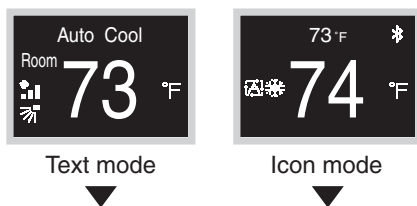
When in the scale screen, the setpoint can be changed in the range of $\pm 3^{\circ}\text{C}/^{\circ}\text{F}$ of the reference temperature.
 The reference temperature can be changed from the smartphone application or the remote controller (from the administrator menu).


2.2.5 Information Screen

The functions of the connected indoor unit are displayed as icons.

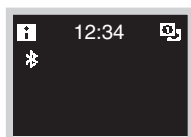
How to display the information screen

Home screen



Press and hold  on the Home screen for 5 seconds.

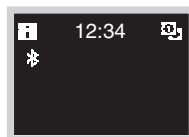
Information screen




The screen switches to the Information screen.

How to exit the information screen

Information screen



Press  or there is no button operation for about 10 seconds, the screen returns to the home screen.

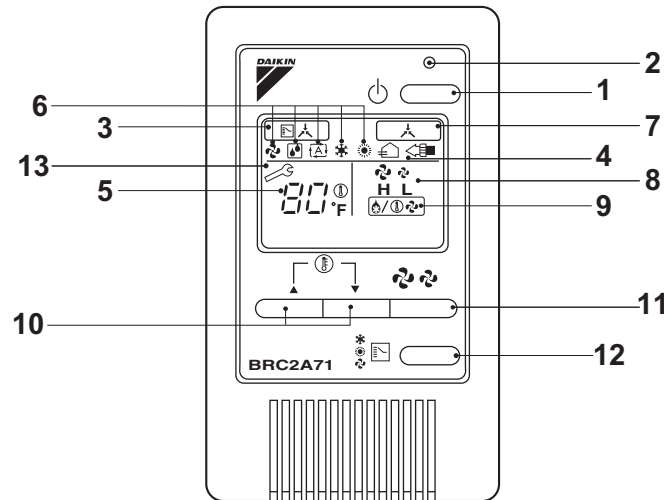
About icons on the information screen











The items displayed vary depending on the indoor unit you are using.





| Icon | Name | Description |
|------|--|---|
| | Information | Indicates an information screen. |
| | MAIN/SUB remote controller | Displayed when used as the MAIN/SUB remote controller. 1=main, 2=sub |
| | Bluetooth* | Indicates that the controller is communicating with a mobile device, for use with the app. |
| | Clock not set | Indicates that the clock needs to be set again. |
| | Setback | Indicates that the indoor unit is operating under setback conditions. |
| | Under centralized control | Indicates that the system is controlled by central control equipment (optional accessory) and that control of the system by the controller is limited. |
| | Changeover controlled by the master indoor unit | <p>Displayed: The remote controller does not have master control. Unable to select heating/cooling operation.</p> <p>Blinking: None of the remote controllers in the system have master control. Can be set as the master controller during this time.</p> <p>Not Displayed: The remote controller has master control. Able to select heating/cooling operation.</p> |
| | Backup | Indicates that backup operation is being carried out. |
| | Energy savings | Indicates that the system's energy consumption is being limited, and that it is running with restricted capacity. |
| | Individual airflow direction | Indicates that the individual airflow direction setting is enabled. |
| | Test operation | Indicates that Test Operation mode is active. |
| | Stand by for Defrost/Hot start | Indicates that the defrost/hot start mode is active. |
| | Self-cleaning filter operation | Indicates that self-cleaning filter operation is active. |
| | Inspection | Indicates that the indoor or outdoor unit is being inspected. |
| | Periodic inspection | Indicates that the indoor or outdoor unit is being inspected. |
| | Ventilating operation | Indicates that ventilating operation is being carried out. |
| | Warning | Indicates that an error occurred, or that an indoor unit component needs to be maintained. |

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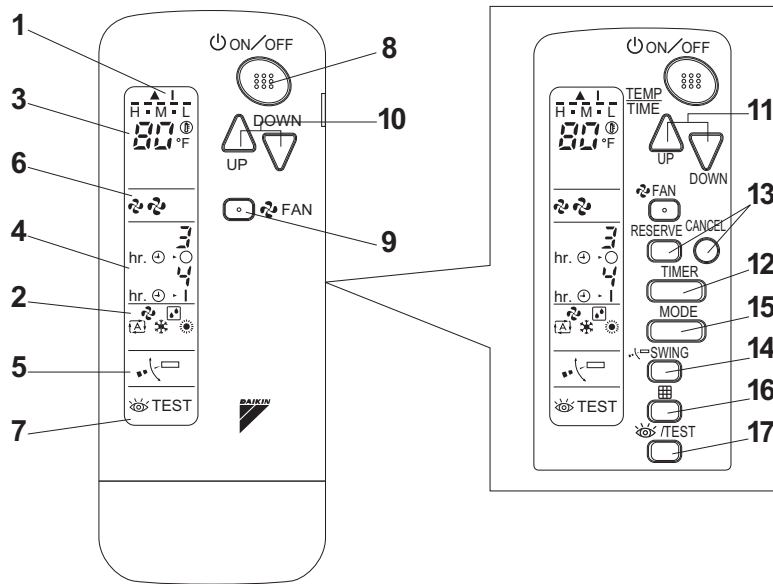
2.3 Simplified Remote Controller



| | |
|---|---|
| | ON/OFF BUTTON |
| 1 | Press the button and the system will start. Press the button again and the system will stop. |
| | OPERATION LAMP (RED) |
| 2 | The lamp lights up during operation. Blinks in case of stop due to malfunction. |
| | DISPLAY “” (CHANGEOVER UNDER CONTROL) |
| 3 | It is impossible to changeover heating/cooling with the remote controller when it shows this display. (As for details, see “SETTING OF MASTER REMOTE CONTROLLER” in the installation manual attached to the indoor unit.) |
| | DISPLAY “” (VENTILATION/AIR CLEANING) |
| 4 | This display shows that the total heat exchanger and the air cleaning unit are in operation. (These are optional accessories). |
| | DISPLAY “” (SET TEMPERATURE) |
| 5 | This display shows the set temperature. Only given during a cooling or heating operation. |
| | DISPLAY “” “” “” “” “” (OPERATION MODE) |
| 6 | This display shows current OPERATION MODE. “  ” is not available with outdoor units specially designed for cooling only. “  ” is reserved only for outdoor units capable of heat recovery. |

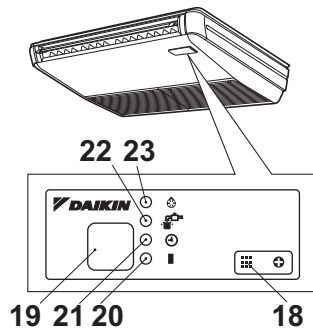
| | |
|----|--|
| | DISPLAY “” (UNDER CENTRALIZED CONTROL) |
| 7 | When this display shows, the system is UNDER CENTRALIZED CONTROL. (This is not a standard specification) |
| | DISPLAY “” (FAN SPEED) |
| 8 | This display shows the fan speed: HIGH or LOW. |
| | DISPLAY “” (DEFROST / HOT START) |
| 9 | Indicates that defrost or hot start (during which the fan is stopped until the temperature of air supply rises enough at the start of a heating operation) is in progress. |
| | TEMPERATURE SETTING BUTTON |
| 10 | Use this button for SETTING TEMPERATURE of the thermostat. ▲ ; Each press raises the set temperature by 1°F. ▼ ; Each press lowers the set temperature by 1°F. The variable temperature range is between 60°F and 90°F. |
| | FAN SPEED CONTROL BUTTON |
| 11 | Press this button to select the fan speed, HIGH or LOW, of your choice. |
| | OPERATION MODE SELECTOR BUTTON |
| 12 | Press this button to select OPERATION MODE. |
| | DISPLAY “” (MALFUNCTION) |
| 13 | Indicates malfunction and blinks if the unit stops operating due to malfunction. (As for details, see “TROUBLE SHOOTING” in the operation manual attached to the outdoor unit.) |

2.4 Wireless Remote Controller

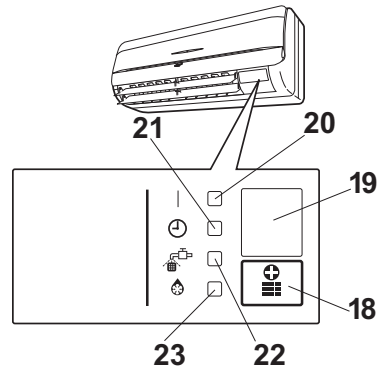


Receiver

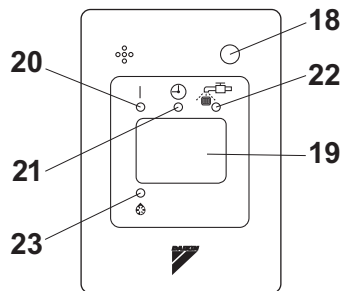
FHQ



FAQ



FBQ (separate type)



| | |
|----|--|
| 1 | DISPLAY “▲” “I” (SIGNAL TRANSMISSION) This lights up when a signal is being transmitted. |
| 2 | DISPLAY “ ” “ ” “ ” “ ” “ ” “ ” (OPERATION MODE) This display shows the current OPERATION MODE. |
| 3 | DISPLAY “ ” (SET TEMPERATURE) This display shows the set temperature. |
| 4 | DISPLAY “ hr. 0. 3 ” “ hr. 0. 4 ” (PROGRAMMED TIME) This display shows PROGRAMMED TIME of the system start or stop. |
| 5 | DISPLAY “ ” (AIR FLOW FLAP) |
| 6 | DISPLAY “ ” “ ” (FAN SPEED) This display shows the set fan speed. |
| 7 | DISPLAY “ ” TEST ” (INSPECTION/ TEST OPERATION) When the INSPECTION/TEST OPERATION BUTTON is pressed, the display shows the system mode is in. |
| 8 | ON/OFF BUTTON Press the button and the system will start. Press the button again and the system will stop. |
| 9 | FAN SPEED CONTROL BUTTON Press this button to select the fan speed, HIGH or LOW, of your choice. |
| 10 | TEMPERATURE SETTING BUTTON Use this button for SETTING TEMPERATURE. (Operates with the front cover of the remote controller closed.) |

| | |
|----|---|
| 11 | PROGRAMMING TIMER BUTTON Use this button for programming “START and/or STOP” time. (Operates with the front cover of the remote controller opened.) |
| 12 | TIMER MODE START/STOP BUTTON |
| 13 | TIMER RESERVE/CANCEL BUTTON |
| 14 | AIR FLOW DIRECTION ADJUST BUTTON |
| 15 | OPERATION MODE SELECTOR BUTTON Press this button to select OPERATION MODE. |
| 16 | FILTER SIGN RESET BUTTON Refer to the section of MAINTENANCE in the operation manual attached to the indoor unit. |
| 17 | INSPECTION/TEST OPERATION BUTTON This button is pressed for inspection or test operation. Do not use for normal operation. |
| 18 | EMERGENCY OPERATION SWITCH This switch is readily used if the remote controller does not work. |
| 19 | RECEIVER This receives the signals from the remote controller. |
| 20 | OPERATING INDICATOR LAMP (Red) This lamp stays lit while the air conditioner runs. It flashes when the unit is in trouble. |
| 21 | TIMER INDICATOR LAMP (Green) This lamp stays lit while the timer is set. |
| 22 | AIR FILTER CLEANING TIME INDICATOR LAMP (Red) Lights up when it is time to clean the air filter. |
| 23 | DEFROST LAMP (Orange) Lights up when the defrosting operation has started. (For cooling only type this lamp does not turn on.) |

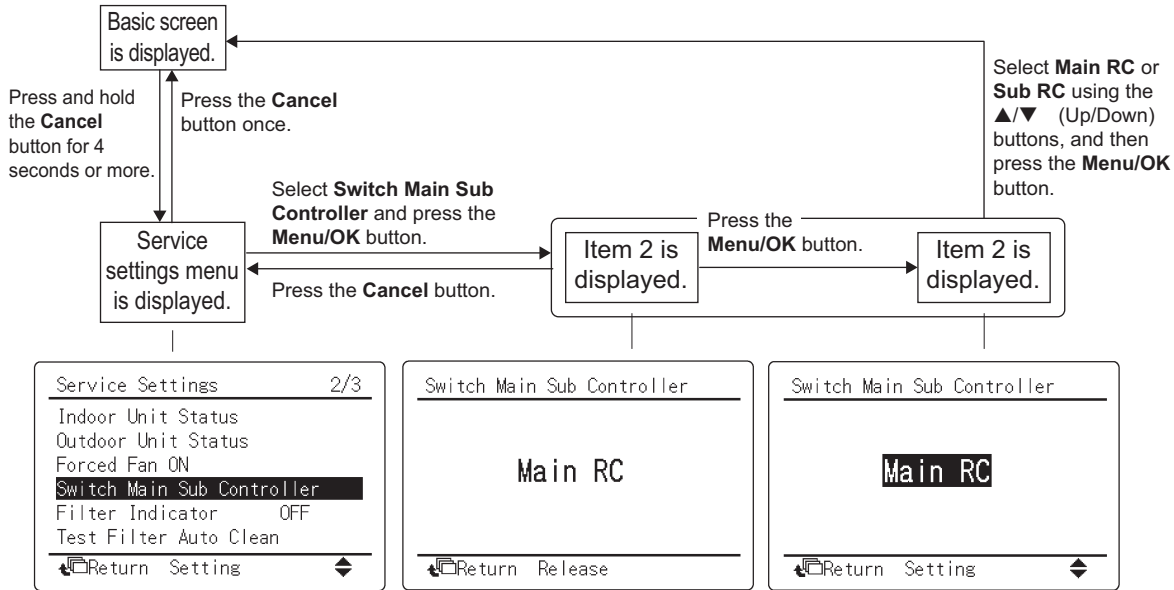
3. Main/Sub Setting

Main/Sub setting is necessary when 1 indoor unit is controlled by 2 remote controllers. The remote controllers are set at factory to Main, so you have to change one remote controller from Main to Sub. To change a remote controller from Main to Sub, proceed as follows:

3.1 Wired Remote Controller (BRC1E73)

3.1.1 Field Settings

The designation of the main and sub remote controllers can be swapped. Note that this change requires turning the power OFF and then ON again.



3.1.2 When an Error Occurred

U5: there are 2 main remote controllers when power is turned ON

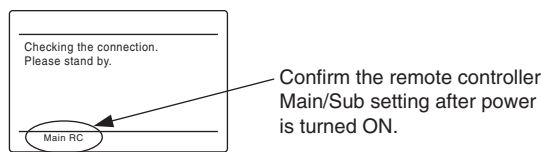
→Change the setting from Main to Sub on the remote controller you want to be Sub.

U8: there are 2 sub remote controllers when power is turned ON

→Change the setting from Sub to Main on the remote controller you want to be Main.

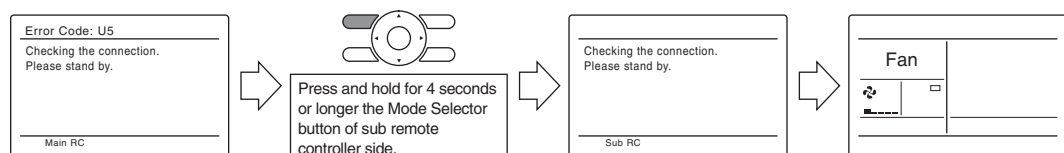
How to confirm Main/Sub setting

The Main/Sub setting of the remote controller is displayed on the bottom of the screen while **Checking the connection. Please stand by.** is displayed.



How to change Main/Sub setting

You may change the Main/Sub setting of the remote controller while **Checking the connection. Please stand by.** is displayed by pressing and holding the **Mode Selector** button for 4 seconds or longer.

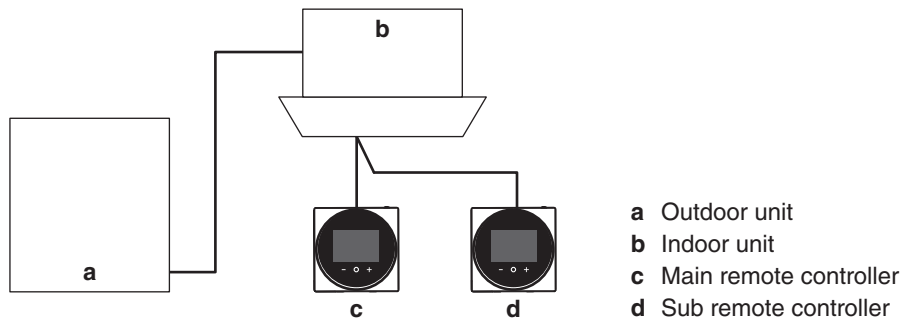


**Note(s)**

1. It is not possible to change the Main/Sub setting from Main to Sub when only one remote controller is connected.
2. When 2 remote controllers are being used, it is not possible to change the setting from Main to Sub if one of the remote controllers is already set as Main.

3.2 Wired Remote Controller (BRC1H71W)

3.2.1 Main and Sub Controller



- On the information screen, main/sub status is indicated by the following icons:

| Icon | Description |
|------|-------------|
| | Main |
| | Sub |

INFORMATION

It is only possible to use a main and a sub controller of the same type.

INFORMATION

If a sub controller does not display the home screen 2 minutes after its designation, turn off the power and check the wiring.

INFORMATION

After re-designating a controller, the system requires a power reset.

INFORMATION

The following functions are not available for sub controllers:

- “Auto” operation mode
- Individual airflow direction
- Filter auto clean
- Setback temperature setpoints
- Draft prevention

3.2.2 Designating a Controller as Main or Sub

Prerequisite: A remote controller is already connected to the indoor unit.

Connect a second controller.

After turning on the power, perform setting of the second controller.

Result: It will start up automatically.



Home screen



Wait for a U5 or U8 error code to appear on the screen.

Screen display explanation


1 main


2 sub



Home screen



When the U5 error code appears, press  and hold until "2" appears on the screen.

When the U8 error code appears, press  and hold until "1" appears on the screen.

Result:

A controller displaying 1 is set as main, and a controller displaying 2 is set as sub.



INFORMATION

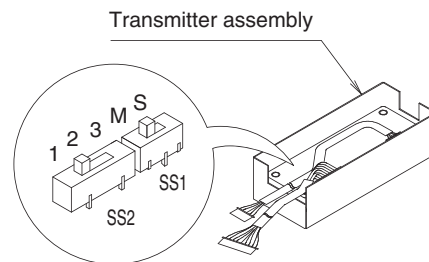
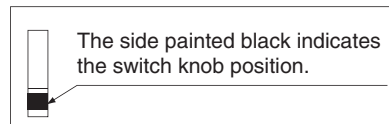
If sub remote controller is not set at power-on in the case of one indoor unit controlled by two remote controllers, Error Code: U5 is displayed in the connection checking screen.

If the sub remote controller does not display the home screen two minutes after its designation, turn off the power and check the wiring.

3.3 When Wireless Remote Controller is Used Together

When using both a wired and a wireless remote controller for 1 indoor unit, the wired controller should be set to Main. Therefore, the Main/Sub switch (SS1) of the signal receiver PCB must be set to Sub.

| Main/Sub | Main | Sub |
|-----------------------|---|---|
| Main/Sub switch (SS1) |  |  |



4. Address Setting for Wireless Remote Controller




If setting multiple wireless remote controllers to operate in one room, perform address setting for the receiver and the wireless remote controller.

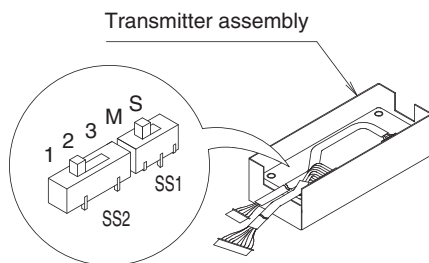
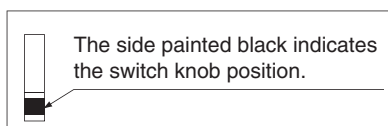
(This includes an individual remote controller control using the group operation.)

(For the wiring for the group operation, please refer to the installation manual attached to the indoor unit and technical guide.)

Setting for Signal Receiver PCB

The address for the receiver is set to 1 at the factory. To change the setting, set the wireless address switch (SS2) on the signal receiver PCB according to the table below.

| Unit No. | No. 1 | No. 2 | No. 3 |
|-------------------------------|---|---|--|
| Wireless address switch (SS2) |  |  |  |



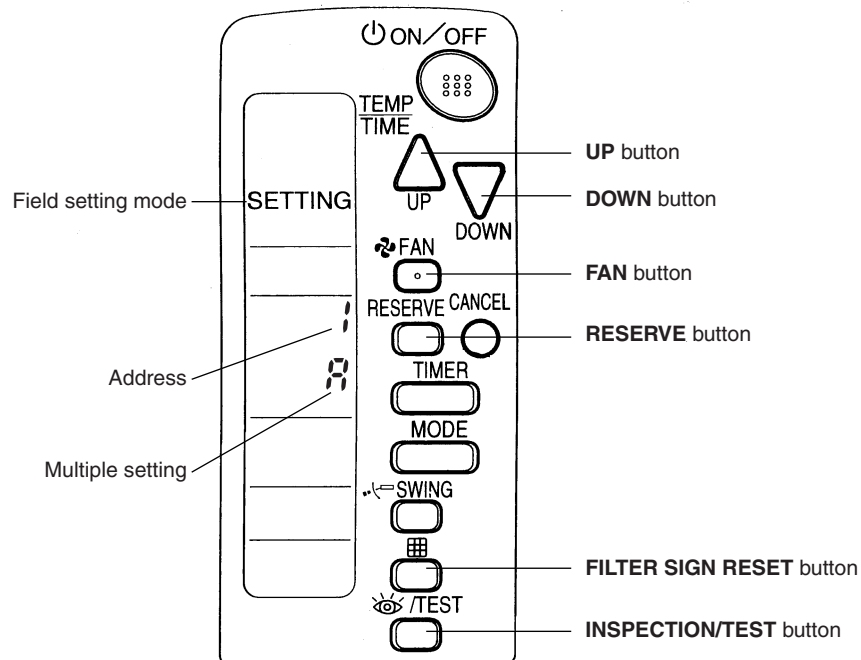
Setting for Wireless Remote Controller

The address for the wireless remote controller is set to 1 at the factory. To change the setting, proceed as follows:

1. Press **FILTER SIGN RESET** button and **INSPECTION/TEST** button at the same time for 4 seconds to enter field setting mode. (**SETTING** is indicated on the display.)
2. Press **FAN** button and select **A** or **b**. Each time the button is pressed, the display switches between **A** and **b**.
3. Press **UP** button or **DOWN** button to select an address from 1-3 as same as the receiver. Address can be set from 1-6, but the receiver does not work with addresses 4-6.

← 1 → 2 → 3 → 4 → 5 → 6

4. Press **RESERVE** button to confirm the setting.
5. Press **INSPECTION/TEST** button for 1 second to return to normal mode.



Multiple Settings A/b

The command such as operation mode or temperature setting by this remote controller will be rejected when the target indoor unit operation is restricted as by an external control such as centralized control.

Since the setting acceptance is hard to discriminate with such circumstances there are two setting options provided to enable discriminating by a beeping sound according to the operation: **A**: Standard or **b**: Multi System. Set the setting according to the customer's intention.

| Remote Controller | | Indoor Unit | |
|-----------------------------------|---|--|---|
| Multiple setting | Display on remote controller | Behavior to the remote controller operation when the functions are restricted as by an external control. | Other than the left |
| A : Standard (factory set) | All items displayed. | Accepts the functions except restricted. (Sounds one long beep or three short beeps) There may be a difference from the indoor unit status with remote controller display. | Accepts all items transmitted (Sounds two short beeps) The remote controller display agrees with the indoor unit status. |
| b : Multi System | Display only items transmitted for a while. | <p><When some restricted functions are included in the transmitted items> Accepts the functions except restricted. (Sounds one long beep or three short beeps) There may be a difference from the indoor unit status with remote controller display.</p> <p><When no restricted function is included> Accepts all items transmitted (Sounds two short beeps) The remote controller display agrees with the indoor unit status.</p> | |

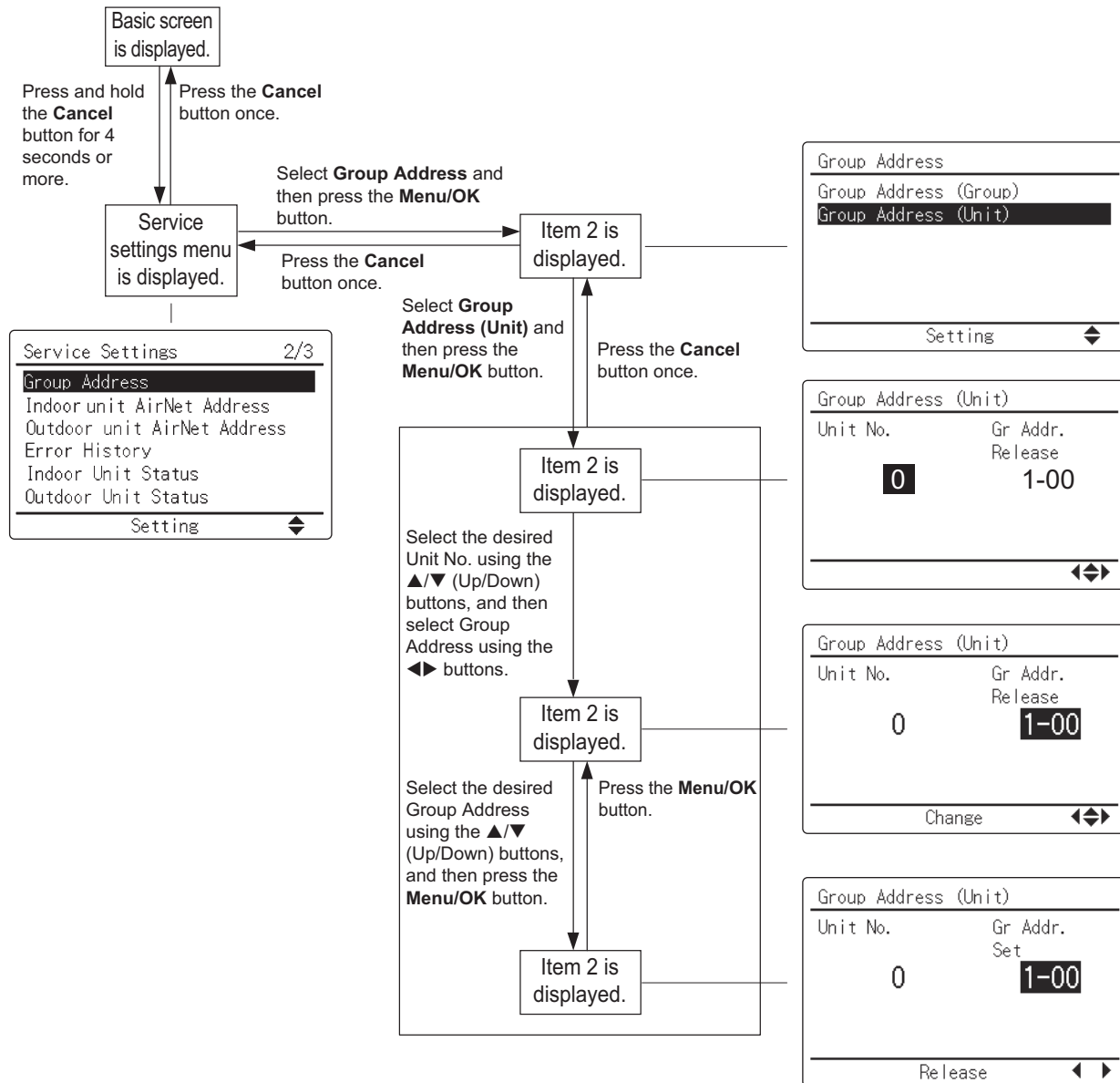
5. Centralized Control Group No. Setting

5.1 BRC1E73

In order to conduct the centralized remote control using the central remote controller and the unified ON/OFF controller, Group No. settings should be made by group using the operating remote controller.

Make Group No. settings for centralized remote control using the operating remote controller.

When initializing Group Address



| | |
|-----------------------|-----------------------|
| Service settings menu | Item 2 |
| Group Address | Group Address (Group) |
| | Group Address (Unit) |

Description

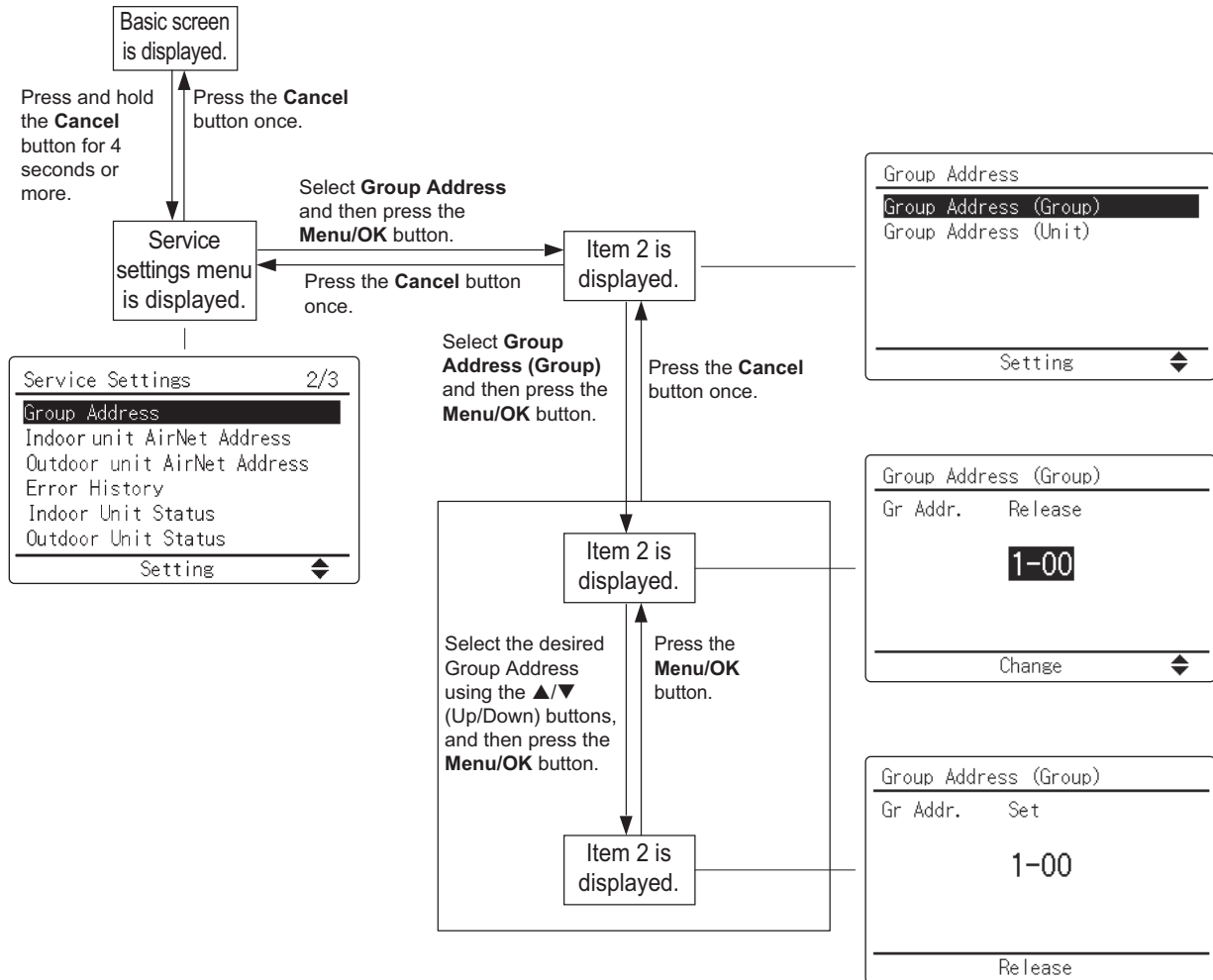
This menu is used to make group address setting for centralized control. It is also used to make group address setting by indoor unit.

- Note(s)** ■ For setting group No. of Energy recovery ventilator and wiring adaptor for other air conditioners, etc., refer to the instruction manual.

NOTICE

Enter the group No. and installation place of the indoor unit into the installation table. Be sure to keep the installation table with the operation manual for maintenance.

Group Address (Group)



5.2 BRC1H71W

Group Address

- Assign the group address and unit number for centralized control.
- The group and unit address can only be set when a centralized controller is connected.
This menu is only visible when a centralized controller is connected.
- The group and unit address can be “set” and “released”.

NOTICE

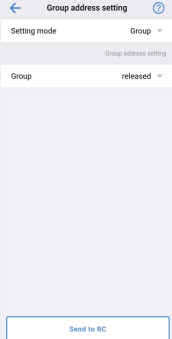
Don't forget to release the group address before disconnecting the centralized controller because the menu will not be accessible afterwards.

Manual setting mode

- Installer setting
- RC settings
- Maintenance

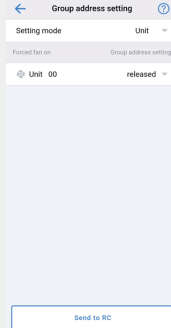
Group address setting
Main

Set the indoor unit group address.
After all settings are complete, press the “Send to RC” button.



Manual setting mode

- Installer setting
- RC settings
- Maintenance



▶ **Setting mode**
You can switch between setting the indoor unit group address for each group, or for each unit.

Manual setting mode

- Installer setting
- RC settings
- Maintenance

▶ **Group**
Set the group address on a per-group basis.
* Set a group address only for the MAIN unit.

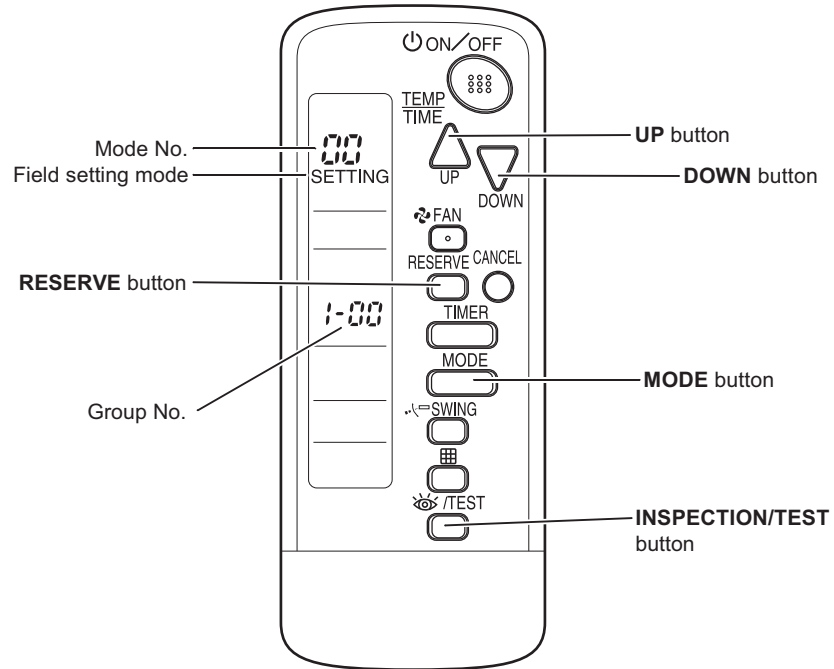
▶ **Unit**
Set the group address on a per-unit basis.

▶ **Forced fan on**
Force operation of the fan of the unit number whose icon has been tapped. You can confirm the location of the device on which you are performing settings.

5.3 Wireless Remote Controller

Group No. setting by wireless remote controller for centralized control

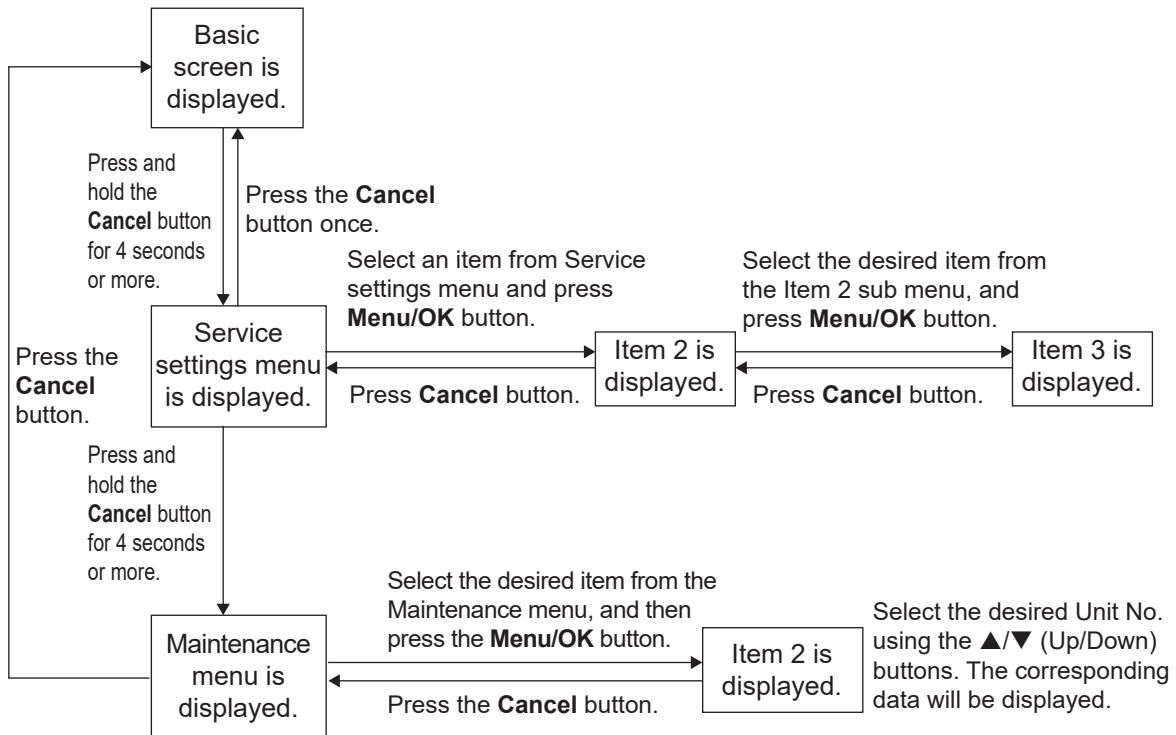
1. When in the normal mode, press **INSPECTION/TEST** button for 4 seconds or more to enter field setting mode.
2. Set mode No. 00 with **MODE** button.
3. Set the group No. for each group with **UP** button or **DOWN** button.
4. Enter the selected group numbers by pressing **RESERVE** button.
5. Press **INSPECTION/TEST** button and return to the normal mode



6. Service Settings Menu, Maintenance Menu

6.1 BRC1E73

Operating the remote controller allows service data to be acquired and various services to be set.



6.1.1 Service Settings Menu

| Service settings menu | Item 2 | Item 3 |
|-----------------------------|---------------------------|--|
| Test Operation | — | — |
| Maintenance Contact | None | — |
| | Maintenance Contact | —, 0 to 9 (in order) |
| Field Settings | Indoor Unit No. | — |
| | Mode No. | — |
| | First Code No. | — |
| | Second Code No. | — |
| Energy Saving Options | Setpoint Range Limitation | Temperature |
| | Setback Configuration | Recovery Differential |
| | Auto-setback by Sensor | Enable/Disable, Settings |
| | Auto-off by Sensor | Enable/Disable, Auto-off in (hours) |
| Prohibit Function | Prohibit Buttons | Up/Down, Left, Right, On/Off, Mode, Fan Speed |
| | Prohibit Mode | Fan, Cool, Heat, Auto, Dry, Vent Clean |
| Min Setpoints Differential | None, Single SP, 0 to 8°F | — |
| Group Address | Group Address (Group) | Gr Addr. Set |
| | Group Address (Unit) | Unit No., Gr Addr. Set |
| Indoor unit AirNet Address | Unit No., Address Set | — |
| Outdoor unit AirNet Address | Unit No., Address Set | — |
| Error History | RC Error History | Unit No., Error, Date, Time (Up to 10 errors received by the remote controller can be displayed.) |
| | Indoor unit Error History | Unit No., Error, Date, Time (Up to 5 errors from the indoor unit error record can be displayed.) |
| Indoor Unit Status | Unit No. | — |
| | Th1 | Suction air thermistor |
| | Th2 | Heat exchanger liquid pipe thermistor |
| | Th3 | Heat exchanger gas pipe thermistor |
| | Th4 | Discharge air thermistor |
| | Th5 | Remote controller thermistor (FBQ, FTQ) Floor temperature thermistor (FCQ) |
| | Th6 | Control temperature thermistor (FBQ, FCQ, FTQ) |
| Outdoor Unit Status | Unit No. | — |
| | Th1 | — |
| | Th2 | — |
| | Th3 | — |
| | Th4 | — |
| | Th5 | — |
| | Th6 | — |
| Forced Fan ON | Unit No. | — |
| Switch Main Sub Controller | — | — |
| Filter Indicator | — | — |
| Test Filter Auto Clean | — | — |
| Brush/Filter Ind. | — | — |
| Disable Filter Auto Clean | No, Yes | — |

6.1.2 Maintenance Menu

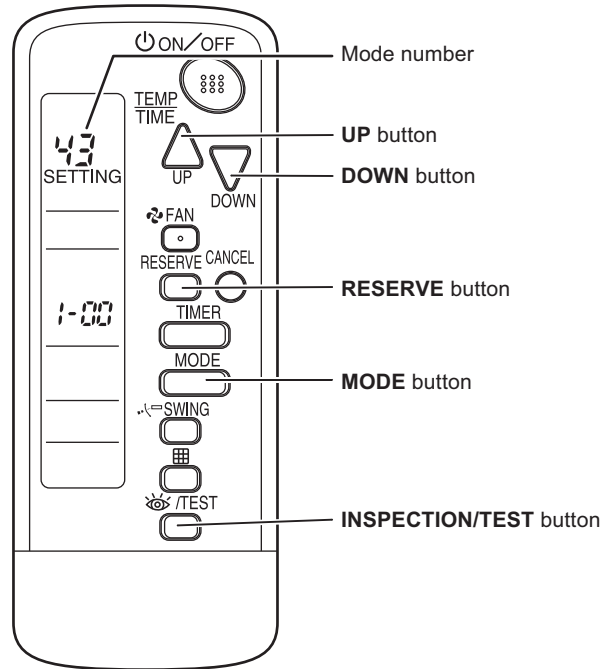
| Maintenance Menu | Item 2 | Remarks |
|---------------------|--|---|
| Model Name | Unit No. | Select the unit number you want to check. |
| | Indoor unit | The model names are displayed. (A model code may be displayed instead, depending on the particular model.) |
| | Outdoor unit | |
| Operation Hours | Unit No. | Select the unit number you want to check. |
| | Indoor unit operation hours | All of these are displayed in hours. |
| | Indoor fan operation hours | |
| | Indoor unit energized hours | |
| | Outdoor unit operation hours | |
| | Outdoor fan 1 operation hours | |
| | Outdoor fan 2 operation hours | |
| | Outdoor compressor 1 operation hours | |
| | Outdoor compressor 2 operation hours | |
| Indoor Unit Status | Unit No. | |
| | FAN | Fan tap (*1) |
| | Speed | Fan speed (rpm) |
| | FLAP | Swing, fixed |
| | EV | Degree that electronic expansion valve is open (pulse) |
| | MP | Drain pump ON/OFF |
| | EH | Electric heater ON/OFF |
| | Hu | Humidifier ON/OFF (*2) |
| | TBF | Anti-freezing control ON/OFF |
| | FLOAT | Float switch OPEN/CLOSE |
| | T1/T2 | T1/T2 external input OPEN/CLOSE |
| | Th1 | Suction air thermistor |
| | Th2 | Heat exchanger liquid pipe thermistor |
| | Th3 | Heat exchanger gas pipe thermistor |
| | Th4 | Discharge air thermistor |
| | Th5 | Remote controller thermistor (FBQ, FTQ) Floor temperature thermistor (FCQ) |
| Th6 | Control temperature thermistor (FBQ, FCQ, FTQ) | |
| Outdoor Unit Status | Unit No. | Select the Unit No. you want to check. |
| | FAN step | Fan tap |
| | COMP | Compressor power supply frequency (Hz) |
| | EV1 | Degree that electronic expansion valve is open (pulse) |
| | SV1 | Solenoid valve ON/OFF |
| | Th1 | — |
| | Th2 | — |
| | Th3 | Te: Low pressure equivalent saturation temperature |
| | Th4 | Tc: High pressure equivalent saturation temperature |
| | Th5 | — |
| Th6 | — | |
| Forced Defrost | Forced defrost ON | Enables the forced defrost operation. |
| | Forced defrost OFF | Disables the forced defrost operation. |

| Maintenance Menu | Item 2 | Remarks |
|------------------------|---------------------|---|
| Error Display | Display error ON | Displays the error on the screen. |
| | Display error OFF | Displays neither errors nor warnings. |
| | Display warning ON | Displays a warning on the screen if an error occurs. |
| | Display warning OFF | No warning is displayed. |
| Swap Unit No. | Current Unit No. | A unit No. can be transferred to another. |
| | Transfer Unit No. | |
| Addressed Sensor Value | Unit No.: 0 - 15 | Select the unit number you want to check. |
| | Code | 00: Remote controller thermistor (°C) 01: Suction air thermistor (°C) 02: Heat exchanger liquid pipe thermistor (°C) 03: Heat exchanger gas pipe thermistor (°C) 04: Indoor unit address No. 05: Outdoor unit address No. 06: Branch selector unit address No. 07: Zone control address No. 08: Cooling/Heating batch address No. 09: Demand/low-noise address No. |
| | Data | The corresponding data will be displayed, based on the unit number and Code selected. |

- *1. (For FTQ-TA, FTQ-TB models)
The actual fan speed is converted into the fan tap to be displayed. Therefore, if the fan speed is changed by controls or external factors, the airflow rate set with the remote controller may differ from the fan tap display.
- *2. (For FTQ-TA, FTQ-TB models)
The ON/OFF status of the humidifier connected to HUMIDIFIER on the X1M terminal of the indoor unit PCB is not displayed. The ON/OFF status of the humidifier connected to the wiring adaptor is displayed.

6.2 Wireless Remote Controller

6.2.1 Service Setting



1. Press **INSPECTION/TEST** button for 4 seconds during normal mode to enter field setting mode.
2. Press **INSPECTION/TEST** button for 4 seconds to enter service mode.
3. Press **MODE** buttons to select a desired mode number. (43)
4. Carry out the necessary setting with **UP** button or **DOWN** button.
5. Press **RESERVE** button to confirm the setting.
6. Press **INSPECTION/TEST** button to return to normal mode

| Mode No. | Function | Content and Operation Method | Example of Remote Controller Display |
|----------|---------------|--|--------------------------------------|
| 43 | Forced Fan ON | Turns the fan ON for each unit individually. | UNIT No. : 43 SETTING |

7. Administrator Menu, Installer Menu

7.1 BRC1H71W

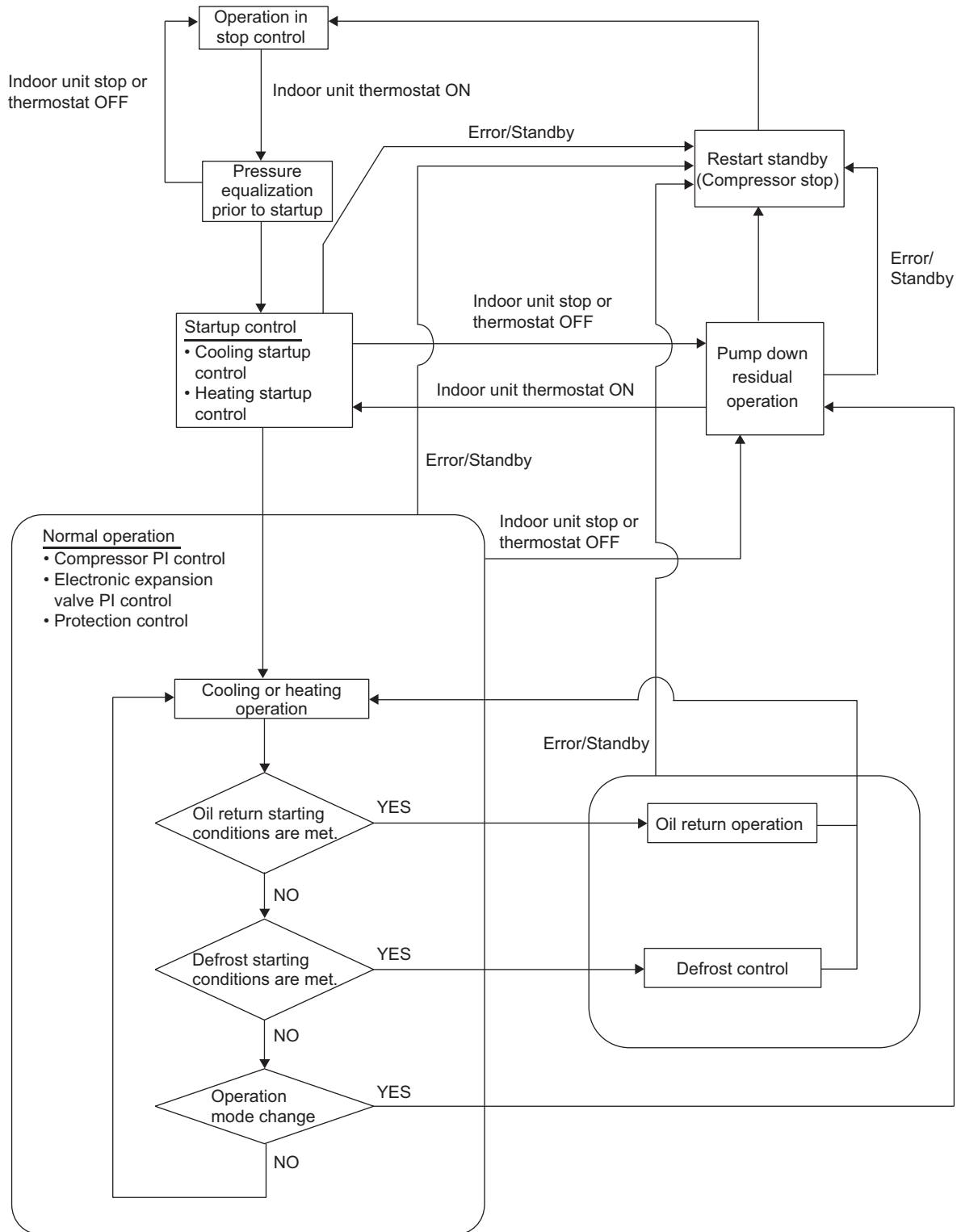
Refer to page 143 for details.

Part 4

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1. Operation Mode



i Note(s) In the event that the indoor unit stops or the thermostat turns OFF while in oil return operation or defrost control, pump down residual operation is performed on completion of the oil return operation or defrost control.

2. Basic Control

2.1 Normal Operation

Cooling Operation

| Outdoor unit actuator | Electric Symbol | | Operation | Remarks |
|---|-----------------|-------------|--------------------------|---|
| | 18/24 class | 30-48 class | | |
| Compressor | M1C | M1C | Compressor PI control | Used for high pressure protection control, low pressure protection control, discharge pipe temperature protection control, and compressor operating frequency upper limit control with inverter protection control. |
| Outdoor fan | M1F | M1F M2F | Cooling fan control | — |
| Electronic expansion valve (Main) | Y1E | Y1E | 480 pulse | — |
| Electronic expansion valve (Subcooling) | — | Y3E | PI control | — |
| Four way valve | Y1S | Y1S | OFF | — |
| Hot gas bypass valve | Y2S | — | OFF | This valve turns ON with low pressure protection control. |
| Liquid injection valve | Y3S | — | OFF | This valve turns ON with high discharge temperature protection control. |

Heating Operation

| Outdoor unit actuator | Electric Symbol | | Operation | Remarks |
|---|-----------------|-------------|--------------------------|---|
| | 18/24 class | 30-48 class | | |
| Compressor | M1C | M1C | Compressor PI control | Used for high pressure protection control, low pressure protection control, discharge pipe temperature protection control, and compressor operating frequency upper limit control with inverter protection control. |
| Outdoor fan | M1F | M1F M2F | Step 7 or 8 | — |
| Electronic expansion valve (Main) | Y1E | Y1E | PI control | — |
| Electronic expansion valve (Subcooling) | — | Y3E | PI control | — |
| Four way valve | Y1S | Y1S | ON | — |
| Hot gas bypass valve | Y2S | — | OFF | This valve turns ON with low pressure protection control. |
| Liquid injection valve | Y3S | — | OFF | This valve turns ON with high discharge temperature protection control. |

* Heating operation is not functional at an outdoor air temperature of 24°CDB (75.2°FDB) or more.

2.2 Compressor PI Control

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

Te: Low pressure equivalent saturation temperature

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

Tc: High pressure equivalent saturation temperature

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

Cooling Operation

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

(1) VRT control (Default)

When the required capacity of all indoor units (suction air temperature – set temperature) is small, the target evaporation temperature is further increased in order to adjust capacity. From the outdoor unit side, the temperature difference for all indoor units (ΔT) is confirmed, and the target temperature is changed.

(2) Constant pressure control

The target evaporation temperature is not changed.

Te setting (Make this setting while in setting mode 2-8.)

| Lower | Normal | VRT (Default) | Higher | | | |
|-----------------|-----------------|---------------|-----------------|-----------------|----------------|------------------|
| 3°C (37.4°F) | 6°C (42.8°F) | Variable | 8°C (46.4°F) | 9°C (48.2°F) | 10°C (50°F) | 11°C (51.8°F) |

TeS upper limit setting (setting mode 2-11)

Applicable models: RZR30-48TBVJUA, RZR18-48TBVJUB, RZQ30-48TBVJUA, RZQ18-48TBVJUB

When the required capacity of all indoor units is small, setting the upper limit of the target temperature to H enables more energy-saving operation.

Note: In high-humidity areas, it is recommended to keep this setting to M or L.

| Setting item | Condition | | |
|-------------------------|-----------|-------------|---|
| TeS upper limit setting | L | M (Default) | H |

Heating Operation

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

(1) VRT control (Default)

When the required capacity of all indoor units (set temperature – suction air temperature) is small, the target condensation temperature is further decreased in order to adjust capacity. From the outdoor unit side, the temperature difference for all indoor units (ΔT) is confirmed, and the target temperature is changed.

(2) Constant pressure control

The target condensation temperature is not changed.

Tc setting (Make this setting while in setting mode 2-9.)

| VRT (Default) | Normal | Higher |
|---------------|-------------------|-------------------|
| Variable | 46°C (114.8°F) | 52°C (125.6°F) |

TcS lower limit setting (setting mode 2-54)

Applicable models: RZQ30-48TBVJUA, RZQ18-48TBVJUB

When the required capacity of all indoor units is small, setting the lower limit of the target temperature to L or LL enables more energy-saving operation.

Note: The supply air temperature will become lower than the initial setting. If cold drafts are felt, return the setting to M.

| Setting item | Condition | | | |
|-------------------------|-----------|---|-------------|---|
| TcS lower limit setting | LL | L | M (Default) | H |

Compressor Frequency

| Step | Frequency (Hz) | |
|------|----------------|-------------|
| | 18/24 class | 30-48 class |
| 1 | 48 | 45 |
| 2 | 52.5 | 52.5 |
| 3 | 57 | 57 |
| 4 | 61.5 | 61.5 |
| 5 | 67.5 | 66 |
| 6 | 75 | 72 |
| 7 | 81 | 78 |
| 8 | 90 | 85.5 |
| 9 | 100.5 | 96 |
| 10 | 105 | 105 |
| 11 | 111 | 108 |
| 12 | 114 | 112.5 |
| 13 | 118.5 | 115.5 |
| 14 | 129 | 121.5 |
| 15 | 141 | 128.1 |
| 16 | 153 | 145.5 |
| 17 | 163.5 | 154.5 |
| 18 | 174 | 163.5 |
| 19 | 181.5 | 178.5 |
| 20 | 192 | 196.5 |
| 21 | 201 | 216 |
| 22 | 211.5 | 223.5 |
| 23 | 222 | 232.5 |
| 24 | 228 | 244.5 |
| 25 | 243 | 253.5 |
| 26 | 253.5 | 255 |
| 27 | 265.5 | 273 |
| 28 | 277.5 | 288 |
| 29 | 289.5 | 309 |
| 30 | 301.5 | 327 |

* Depending on the operating conditions of the compressor, the compressor can be run in an operating mode different from the modes listed in the table above.

2.3 Electronic Expansion Valve PI Control

Main Electronic Expansion Valve Control

Carries out main electronic expansion valve (Y1E) PI control to maintain the evaporator outlet superheating degree (SH) at constant during heating operation, thus making maximum use of the outdoor heat exchanger (evaporator).

SH = Ts1 – Te SH: Evaporator outlet superheating degree
Ts1: Suction pipe temperature detected by thermistor R3T
Te: Low pressure equivalent saturation temperature

The optimum initial value of the evaporator outlet superheating degree is 3°C (5.4°F), but varies depending on the discharge pipe superheating degree of the compressor.

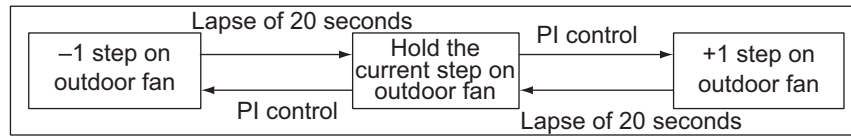
Subcooling Electronic Expansion Valve Control

Carries out PI control of subcooling electronic expansion valve (Y3E) to keep the superheating degree (SH) of the outlet gas pipe on the evaporator side for the full use of the subcooling heat exchanger.

SH = Tsh – Te SH: Evaporator outlet superheating degree
Tsh: Subcooling heat exchanger gas pipe temperature detected by thermistor R6T
Te: Low pressure equivalent saturation temperature

2.4 Cooling Operation Fan Control

In cooling operation with low outdoor air temperature, this control is used to provide an adequate amount of circulation air with liquid pressure secured by high pressure control from the outdoor fan. Furthermore, when outdoor temperature $\geq 20^{\circ}\text{C}$ (68°F), the outdoor fan will run in Step 7 or higher. When outdoor temperature $\geq 18^{\circ}\text{C}$ (64.4°F), it will run in Step 5 or higher. When outdoor temperature $\geq 12^{\circ}\text{C}$ (53.6°F), it will run in Step 1 or higher.



Fan Steps

| Step | Fan speed (rpm) | | |
|------|--|-----|-----|
| | RZR18/24TAVJU RZQ18/24TAVJU RZR18/24TAVJUA RZQ18/24TAVJUA RZR18/24TBVJUA RZQ18/24TBVJUA | M1F | M2F |
| 1 | 200 | 250 | 0 |
| 2 | 250 | 400 | 0 |
| 3 | 300 | 285 | 250 |
| 4 | 480 | 360 | 325 |
| 5 | 515 | 445 | 410 |
| 6 | 620 | 580 | 545 |
| 7 | 830 | 715 | 680 |
| 8 | 920 | 850 | 815 |

| Step | Fan speed (rpm) | | |
|------|----------------------------------|-----|-----|
| | RZR18/24TBVJUB RZQ18/24TBVJUB | M1F | M2F |
| 1 | 200 | 260 | 0 |
| 2 | 250 | 400 | 0 |
| 3 | 300 | 285 | 250 |
| 4 | 450 | 360 | 325 |
| 5 | 490 | 435 | 400 |
| 6 | 605 | 560 | 525 |
| 7 | 810 | 690 | 655 |
| 8 | 890 | 820 | 785 |

3. Special Control

3.1 Startup Control

This control is used to equalize the pressure in the suction and discharge sides of the compressor prior to compressor startup, thus reducing startup loads. Furthermore, the inverter is turned ON to charge the capacitor.

To avoid stresses to the compressor due to oil return or else after the startup, the following control is made and the position of the four way valve is also determined.

Pc: High pressure sensor detection value

Pe: Low pressure sensor detection value

Ta: Outdoor air temperature

Tc: High pressure equivalent saturation temperature

3.1.1 Startup Control in Cooling

| Outdoor unit actuator | Electric Symbol | | Pressure equalization control prior to startup | Startup control | |
|---|-----------------|-------------|--|---|--|
| | 18/24 class | 30-48 class | | STEP 1 | STEP 2 |
| Compressor | M1C | M1C | 0 Hz | Minimum frequency | Increases 2 steps every 20 seconds from minimum frequency until $P_c - P_e > 0.39$ MPa (56.6 psi) is achieved |
| Outdoor fan | M1F | M1F M2F | OFF | Ta < 20°C (68°F): OFF Ta ≥ 20°C (68°F): STEP 4 | +1 step/15 sec. (when $P_c > 2.16$ MPa (313 psi)) -1 step/15 sec. (when $P_c < 1.77$ MPa (257 psi)) |
| Electronic expansion valve (Main) | Y1E | Y1E | 0 pulse | 480 pulse (Fully open) | 480 pulse (Fully open) |
| Electronic expansion valve (Subcooling) | — | Y3E | 0 pulse | 0 pulse | 0 pulse |
| Four way valve | Y1S | Y1S | Holds | OFF | OFF |
| Hot gas bypass valve | Y2S | — | ON | OFF | OFF |
| Liquid injection valve | Y3S | — | OFF | OFF | OFF |
| Ending conditions | | | OR (<ul style="list-style-type: none"> • $P_c - P_e < 0.3$ MPa (43.5 psi) • A lapse of 5 min. | A lapse of 10 sec. | OR (<ul style="list-style-type: none"> • A lapse of 360 sec. • $P_c - P_e > 0.39$ MPa (56.6 psi) • $T_c > 48^\circ\text{C}$ (118°F) • $P_e < 0.55$ MPa (80 psi) |

3.1.2 Startup Control in Heating

| Outdoor unit actuator | Electric Symbol | | Pressure equalization control prior to startup | Startup control | |
|---|-----------------|-------------|--|--------------------|---|
| | 18/24 class | 30-48 class | | STEP 1 | STEP 2 |
| Compressor | M1C | M1C | 0 Hz | Minimum frequency | Increases 2 steps every 20 seconds from minimum frequency until $P_c - P_e > 0.39 \text{ MPa}$ (56.6 psi) is achieved |
| Outdoor fan | M1F | M1F M2F | From starting $T_a > 20^\circ\text{C}$ (68°F): STEP 1 $T_a \leq 20^\circ\text{C}$ (68°F): OFF | STEP 8 | STEP 8 |
| Electronic expansion valve (Main) | Y1E | Y1E | 0 pulse | 0 pulse | 0 pulse |
| Electronic expansion valve (Subcooling) | — | Y3E | 0 pulse | 0 pulse | 0 pulse |
| Four way valve | Y1S | Y1S | Holds | ON | ON |
| Hot gas bypass valve | Y2S | — | ON | OFF | OFF |
| Liquid injection valve | Y3S | — | OFF | OFF | OFF |
| Ending conditions | | | OR (<ul style="list-style-type: none"> • $P_c - P_e < 0.3 \text{ MPa}$ (43.5 psi) • A lapse of 5 min. | A lapse of 10 sec. | OR (<ul style="list-style-type: none"> • A lapse of 130 sec. • $P_c > 2.70 \text{ MPa}$ (392 psi) • $P_c - P_e > 0.39 \text{ MPa}$ (56.6 psi) |

3.2 Oil Return Control

In order to prevent the compressor from running out of oil, oil return control is conducted to recover oil that has flowed out from the compressor to the system side.

HTdi: Compressor discharge pipe temperature (Tdi) compensated with outdoor air temperature

Pc: High pressure sensor detection value

Pe: Low pressure sensor detection value

Tc: High pressure equivalent saturation temperature

Te: Low pressure equivalent saturation temperature

Ts1: Suction pipe temperature detected by thermistor R3T

3.2.1 Oil Return Control in Cooling

Starting Conditions

- Oil return operation is not conducted before 2 hours have elapsed from the activation of power supply.
- After 2 hours have elapsed, oil return operation starts when the following item meets the reference value.
 - ◆ Total amount of oil discharged from the compressor (The total amount of oil discharged from the compressor is computed from Tc, Te, and compressor loads.)
- Oil return operation starts every 8 hours of cumulative operation of the compressor, even if the reference value is not met.

| Outdoor unit actuator | Electric Symbol | | Oil return preparation control | Oil return control | Control after oil return |
|---|-----------------|-------------|--------------------------------|---|--|
| | 18/24 class | 30-48 class | | | |
| Compressor | M1C | M1C | Normal control | Control dependent on the values of Pc and Pe (→ Low pressure protection control) | Normal control from current rps |
| Outdoor fan | M1F | M1F M2F | Fan control (Normal cooling) | Fan control (Normal cooling) | Fan control (Normal cooling) |
| Electronic expansion valve (Main) | Y1E | Y1E | 480 pulse (Fully open) | 480 pulse (Fully open) | 480 pulse (Fully open) |
| Electronic expansion valve (Subcooling) | — | Y3E | SH control | 0 pulse | 0 pulse |
| Four way valve | Y1S | Y1S | OFF | OFF | OFF |
| Hot gas bypass valve | Y2S | — | OFF | OFF | OFF |
| Liquid injection valve | Y3S | — | OFF | OFF | OFF |
| Ending conditions | | | 15 seconds | 3 minutes & OR (<ul style="list-style-type: none"> • Ts1-Te < 3°C (5.4°F) • A lapse of 20 minutes • System rps is larger than oil return rps for more than 6 minutes.) | OR (<ul style="list-style-type: none"> • 3 minutes • Pe < 0.6 MPa (87 psi) • HTdi > 110°C (230°F) • Pc > 3.6 MPa (522 psi)) |

| Indoor unit actuator | | Cooling oil return control |
|----------------------------|---------------------|--|
| Fan | Thermostat ON unit | Remote controller setting |
| | Non-operating unit | OFF |
| | Thermostat OFF unit | Remote controller setting |
| Electronic expansion valve | Thermostat ON unit | Normal opening |
| | Non-operating unit | 224 pulse |
| | Thermostat OFF unit | Normal opening with forced thermostat ON |

3.2.2 Oil Return Control in Heating

Pc: High pressure sensor detection value

Pe: Low pressure sensor detection value

Tc: High pressure equivalent saturation temperature

Te: Low pressure equivalent saturation temperature

Ts1: Suction pipe temperature detected by thermistor R3T

Tb: Heat exchanger temperature

Starting Conditions

- Oil return operation is not conducted before 2 hours have elapsed from the activation of power supply.
- After 2 hours have elapsed, oil return operation starts when the following item meets the reference value.
 - ◆ Total amount of oil discharged from the compressor (The total amount of oil discharged from the compressor is computed from Tc, Te, and compressor loads.)
- Oil return operation starts every 8 hours of cumulative operation of the compressor, even if the reference value is not met.

| Outdoor unit actuator | Electric Symbol | | (A) Oil return preparation control | (B) Oil return control | (C) Control after oil return |
|---|-----------------|-------------|---|--|---|
| | 18/24 class | 30-48 class | | | |
| Compressor | M1C | M1C | Upper limit control → 0 rps | STEP 25 load (18/24 class) STEP 21 load (30-48 class) | Increases 2 steps every 20 seconds from minimum frequency until $P_c - P_e > 0.4 \text{ MPa}$ (58 psi) is achieved. |
| Outdoor fan | M1F | M1F M2F | Normal heating control → OFF | OFF | STEP 8 |
| Electronic expansion valve (Main) | Y1E | Y1E | SH control → 0 pulse | 480 pulse (Fully open) | 55 pulse |
| Electronic expansion valve (Subcooling) | — | Y3E | Normal heating control → 0 pulse | 0 pulse | 0 pulse |
| Four way valve | Y1S | Y1S | ON → OFF | OFF | ON |
| Hot gas bypass valve | Y2S | — | OFF → ON | OFF | ON → OFF |
| Liquid injection valve | Y3S | — | OFF | OFF | OFF |
| Ending conditions | | | OR (<ul style="list-style-type: none"> ● Up to 5 minutes 50 seconds ● A lapse of 20 seconds from four way valve ON → OFF | OR (<ul style="list-style-type: none"> ● 16 minutes ● $T_b > 11^\circ\text{C}$ (51.8°F) ● $T_{s1} - T_e < 5^\circ\text{C}$ (9°F) | OR (<ul style="list-style-type: none"> ● 260 seconds ● $P_c > 2.7 \text{ MPa}$ (391 psi) ● $P_c - P_e > 0.4 \text{ MPa}$ (58 psi) |

* Between (A) oil return preparation control and (B) oil return control, and between (B) oil return control and (C) control after oil return, the compressor stops for 1 minute to reduce noise on changing of the four way valve.

| Indoor unit actuator | | Heating oil return control |
|----------------------------|---------------------|----------------------------|
| Fan | Thermostat ON unit | OFF |
| | Non-operating unit | OFF |
| | Thermostat OFF unit | OFF |
| Electronic expansion valve | Thermostat ON unit | 416 pulse |
| | Non-operating unit | 256 pulse |
| | Thermostat OFF unit | 416 pulse |

3.3 Defrost Control

Pc: High pressure sensor detection value

Pe: Low pressure sensor detection value

Tb: Heat exchanger deicer temperature

Tc: High pressure equivalent saturation temperature

Te: Low pressure equivalent saturation temperature

Ts1: Suction pipe temperature detected by thermistor R3T

Defrost control is performed to melt frost on the outdoor heat exchanger when heating, and thus recover heating capacity.

Starting Conditions

- Defrost operation is not conducted before 40 minutes have elapsed from the start of heating operation.
- After 40 minutes have elapsed, defrost operation starts when the following items meet the reference values.
 - ◆ Heat transfer coefficient of the outdoor heat exchanger (The heat transfer coefficient of the outdoor heat exchanger is computed from Tc, Te, and compressor loads.)
 - ◆ Outdoor heat exchanger deicer temperature (Tb)
- Defrost operation starts every 2 hours, even if the reference values are not met.

| Outdoor unit actuator | Electric Symbol | | (A) Defrost preparation control | (B) Defrost control | (C) Control after defrost |
|---|-----------------|-------------|---|---|--|
| | 18/24 class | 30-48 class | | | |
| Compressor | M1C | M1C | Upper limit control → 0 rps | STEP 25 load (18/24 class) STEP 21 load (30-48 class) | Increases 2 steps every 20 seconds from minimum frequency until Pc – Pe > 0.4 MPa (58 psi) is achieved. |
| Outdoor fan | M1F | M1F M2F | Normal heating control → OFF | OFF | STEP 8 |
| Electronic expansion valve (Main) | Y1E | Y1E | SH control → 0 pulse | 480 pulse (Fully open) | 55 pulse |
| Electronic expansion valve (Subcooling) | — | Y3E | Normal heating control → 0 pulse | 0 pulse | 0 pulse |
| Four way valve | Y1S | Y1S | ON → OFF | OFF | ON |
| Hot gas bypass valve | Y2S | — | OFF → ON | OFF | ON → OFF |
| Liquid injection valve | Y3S | — | OFF | OFF | OFF |
| Ending conditions | | | OR (<ul style="list-style-type: none"> ● Up to 5 minutes 50 seconds ● A lapse of 20 seconds from four way valve ON → OFF | OR (<ul style="list-style-type: none"> ● 16 minutes ● Tb > 11°C (51.8°F) & ● Ts1 – Te < 5°C (9°F) | OR (<ul style="list-style-type: none"> ● 260 seconds ● Pc > 2.7 MPa (391 psi) ● Pc – Pe > 0.4 MPa (58 psi) |

* Between (A) defrost preparation control and (B) defrost control, and between (B) defrost control and (C) control after defrost, the compressor stops for 1 minute to reduce noise on changing of the four way valve.

| | Indoor unit actuator | Defrost control |
|----------------------------|----------------------|-----------------|
| Fan | Thermostat ON unit | OFF |
| | Non-operating unit | OFF |
| | Thermostat OFF unit | OFF |
| Electronic expansion valve | Thermostat ON unit | 416 pulse |
| | Non-operating unit | 256 pulse |
| | Thermostat OFF unit | 416 pulse |

3.4 Pump Down Residual Control

If liquid refrigerant is retained in the evaporator when the compressor is activated, the liquid refrigerant enters the compressor and dilutes oil therein resulting in a decrease of lubricity. Therefore, pump down residual control is performed to collect the refrigerant retained in the evaporator when the compressor stops.

3.4.1 Pump Down Residual Control in Cooling

| Outdoor unit actuator | Electric Symbol | | Pump down residual control | |
|---|-----------------|-------------|----------------------------|------------------------|
| | 18/24 class | 30-48 class | Step 1 | Step 2 |
| Compressor | M1C | M1C | STEP 18 load | STEP 6 load |
| Outdoor fan | M1F | M1F M2F | Fan control | Fan control |
| Electronic expansion valve (Main) | Y1E | Y1E | 480 pulse (Fully open) | 480 pulse (Fully open) |
| Electronic expansion valve (Subcooling) | — | Y3E | 0 pulse | 0 pulse |
| Four way valve | Y1S | Y1S | OFF | OFF |
| Hot gas bypass valve | Y2S | — | OFF | OFF |
| Liquid injection valve | Y3S | — | OFF | OFF |
| Ending conditions | | | 2 seconds | 2 seconds |

3.4.2 Pump Down Residual Control in Heating

| Outdoor unit actuator | Electric Symbol | | Pump down residual control |
|---|-----------------|-------------|--|
| | 18/24 class | 30-48 class | |
| Compressor | M1C | M1C | STEP 18 load (18/24 class) STEP 9 load (30-48 class) |
| Outdoor fan | M1F | M1F M2F | STEP 7 |
| Electronic expansion valve (Main) | Y1E | Y1E | 0 pulse |
| Electronic expansion valve (Subcooling) | — | Y3E | 0 pulse |
| Four way valve | Y1S | Y1S | ON |
| Hot gas bypass valve | Y2S | — | OFF |
| Liquid injection valve | Y3S | — | OFF |
| Ending conditions | | | 4 seconds (18/24 class) Up to 3 minutes (30-48 class) |

3.5 Restart Standby

Restart is forced into standby to prevent the power from frequently turning on and off and to equalize pressure in the refrigerant system.

Ta: Outdoor air temperature

| Outdoor unit actuator | Electric Symbol | | Operation |
|---|-----------------|-------------|---|
| | 18/24 class | 30-48 class | |
| Compressor | M1C | M1C | OFF |
| Outdoor fan | M1F | M1F M2F | Ta > 30°C (86°F): STEP 4 Ta ≤ 30°C (86°F): OFF |
| Electronic expansion valve (Main) | Y1E | Y1E | 0 pulse |
| Electronic expansion valve (Subcooling) | — | Y3E | 0 pulse |
| Four way valve | Y1S | Y1S | Holds |
| Hot gas bypass valve | Y2S | — | ON |
| Liquid injection valve | Y3S | — | OFF |
| Ending conditions | | | 2 minutes |

3.6 Stop Control

Actuator operation is cleared when the system is down.

| Outdoor unit actuator | Electric Symbol | | Operation |
|---|-----------------|-------------|--------------------------------------|
| | 18/24 class | 30-48 class | |
| Compressor | M1C | M1C | OFF |
| Outdoor fan | M1F | M1F M2F | OFF |
| Electronic expansion valve (Main) | Y1E | Y1E | 0 pulse |
| Electronic expansion valve (Subcooling) | — | Y3E | 0 pulse |
| Four way valve | Y1S | Y1S | Holds |
| Hot gas bypass valve | Y2S | — | OFF |
| Liquid injection valve | Y3S | — | OFF |
| Ending conditions | | | Indoor unit thermostat is turned ON. |

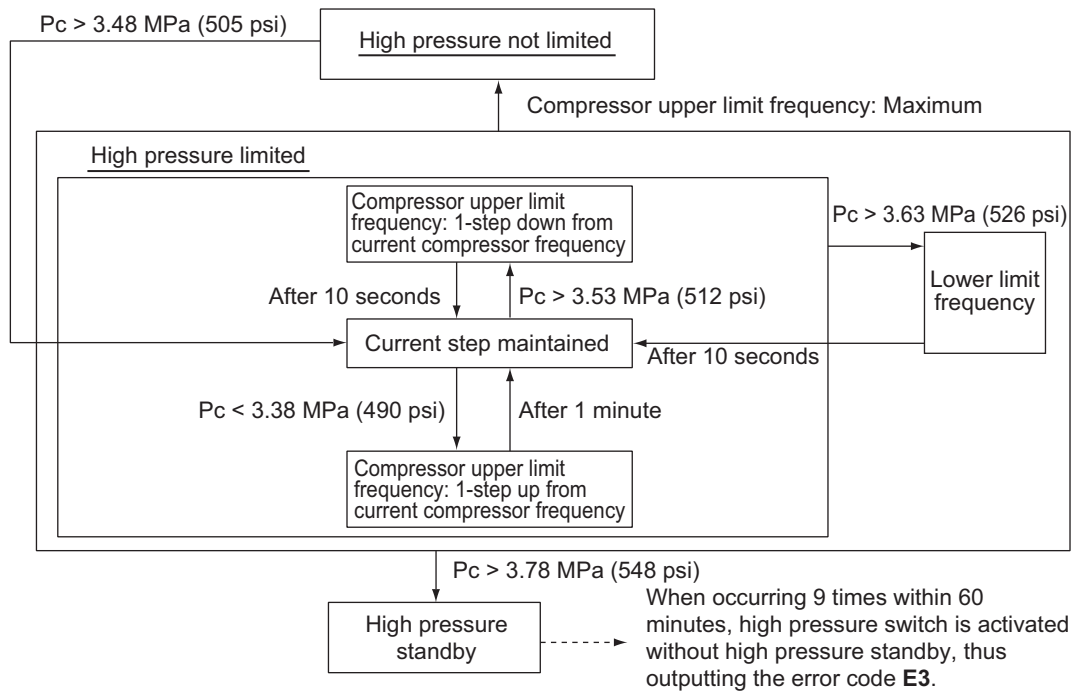
4. Protection Control

4.1 High Pressure Protection Control

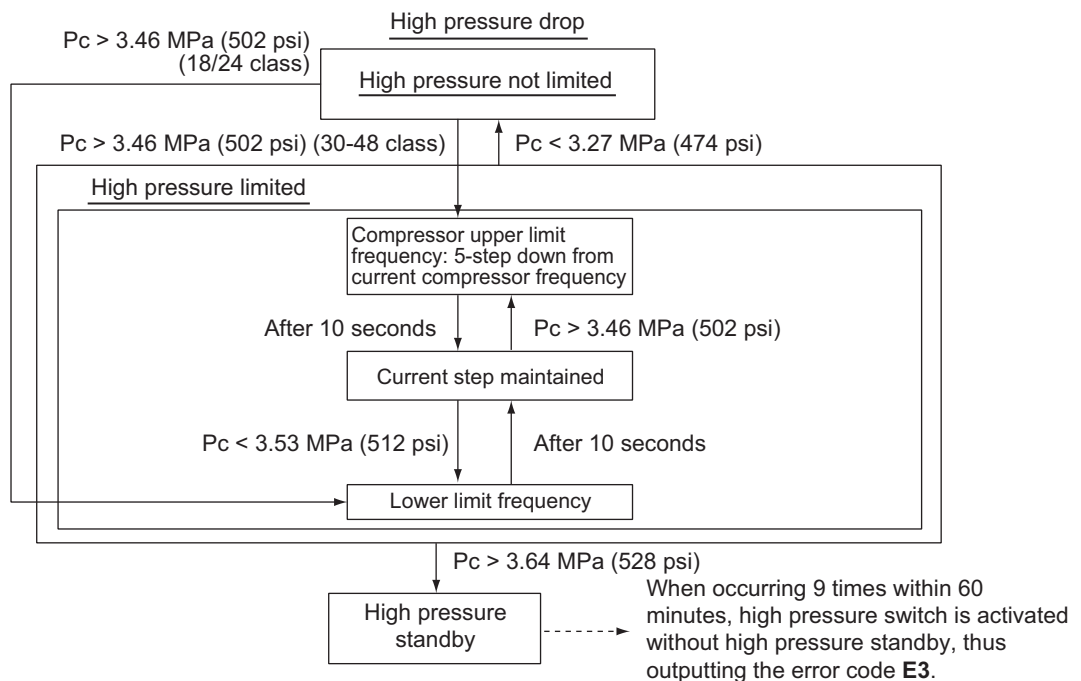
This high pressure protection control is used to prevent the activation of protection devices due to an abnormal increase of high pressure and to protect compressors against the transient increase of high pressure.

Pc: High pressure sensor detection value

Cooling Operation



Heating Operation

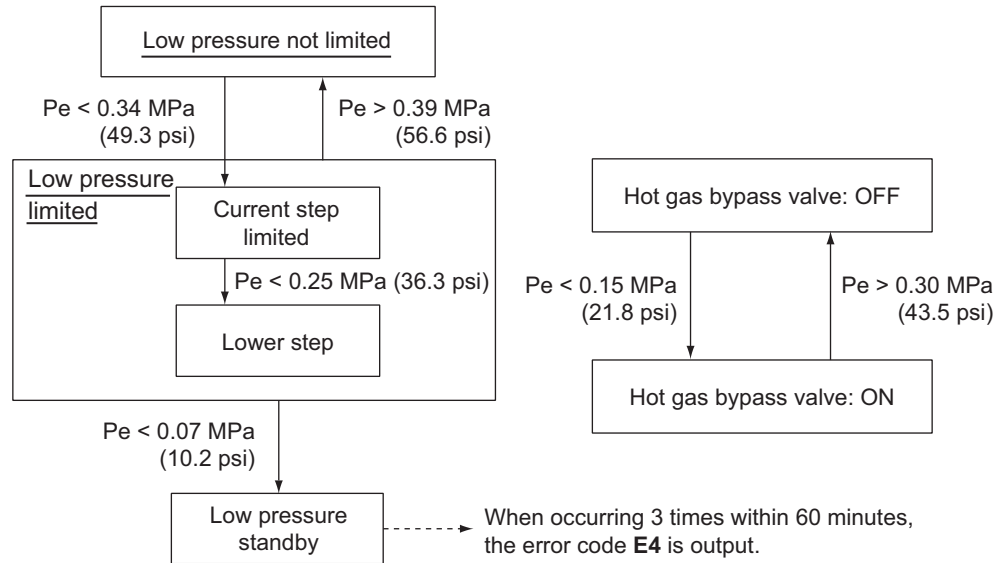


4.2 Low Pressure Protection Control

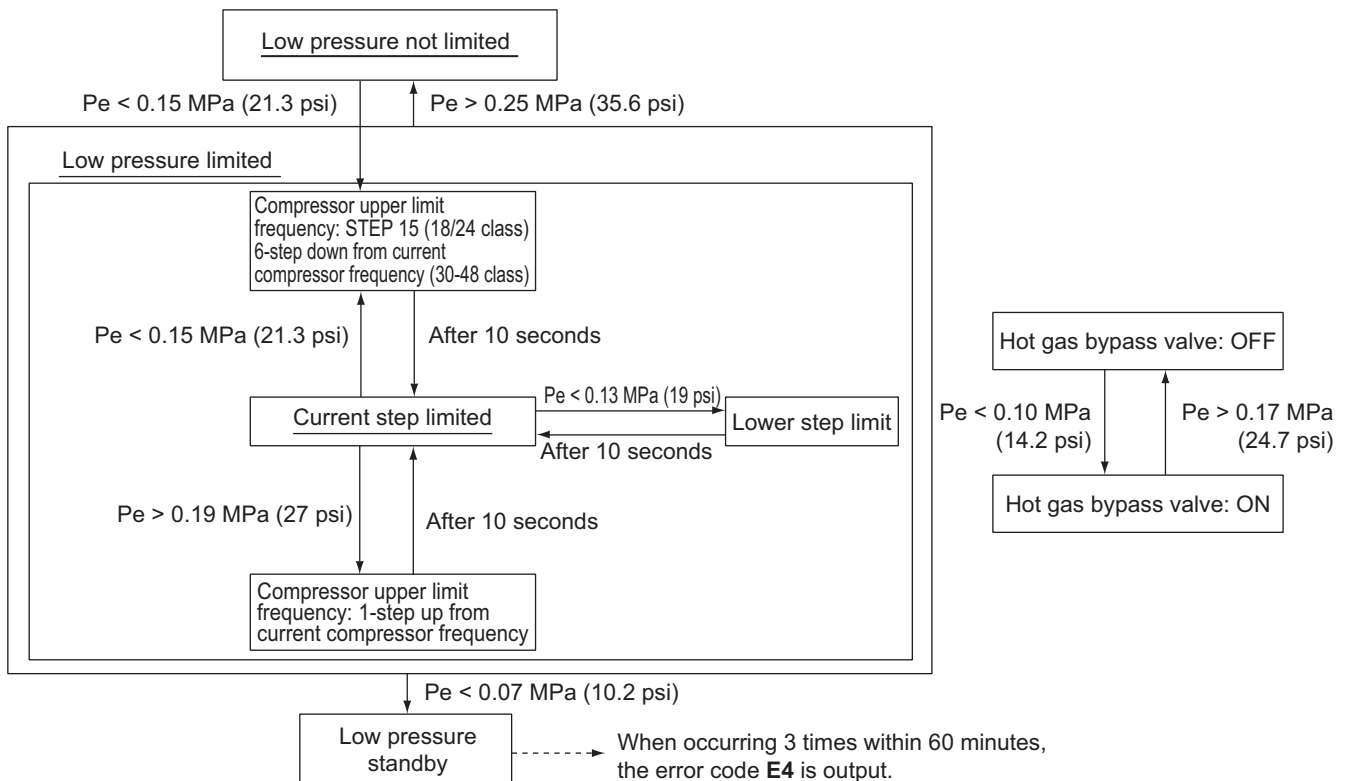
This low pressure protection control is used to protect compressors against the transient decrease of low pressure.

Pe: Low pressure sensor detection value

Cooling Operation



Heating Operation

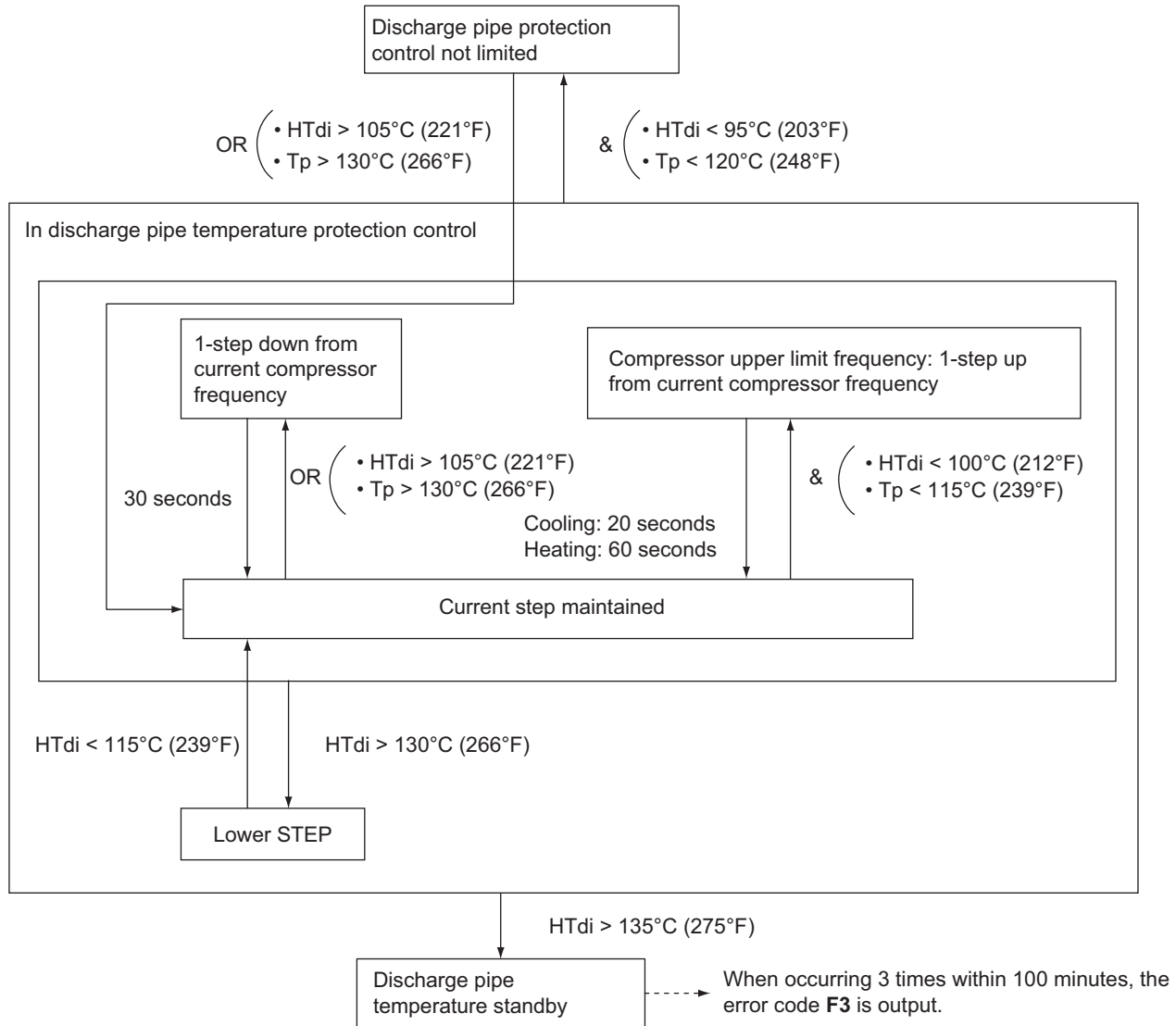


4.3 Discharge Pipe Temperature Protection Control

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

HTdi: Value of compressor discharge pipe temperature (Tdi) compensated with outdoor air temperature

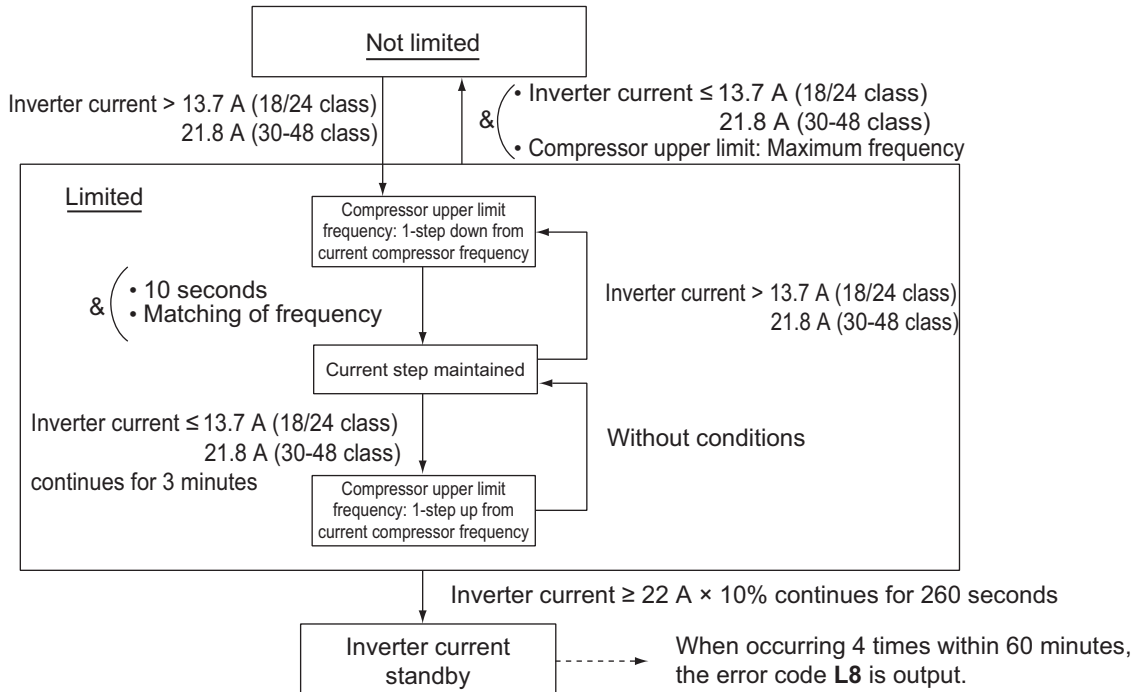
Tp: Value of compressor port temperature calculated by Tc, Te, and suction superheating degree.



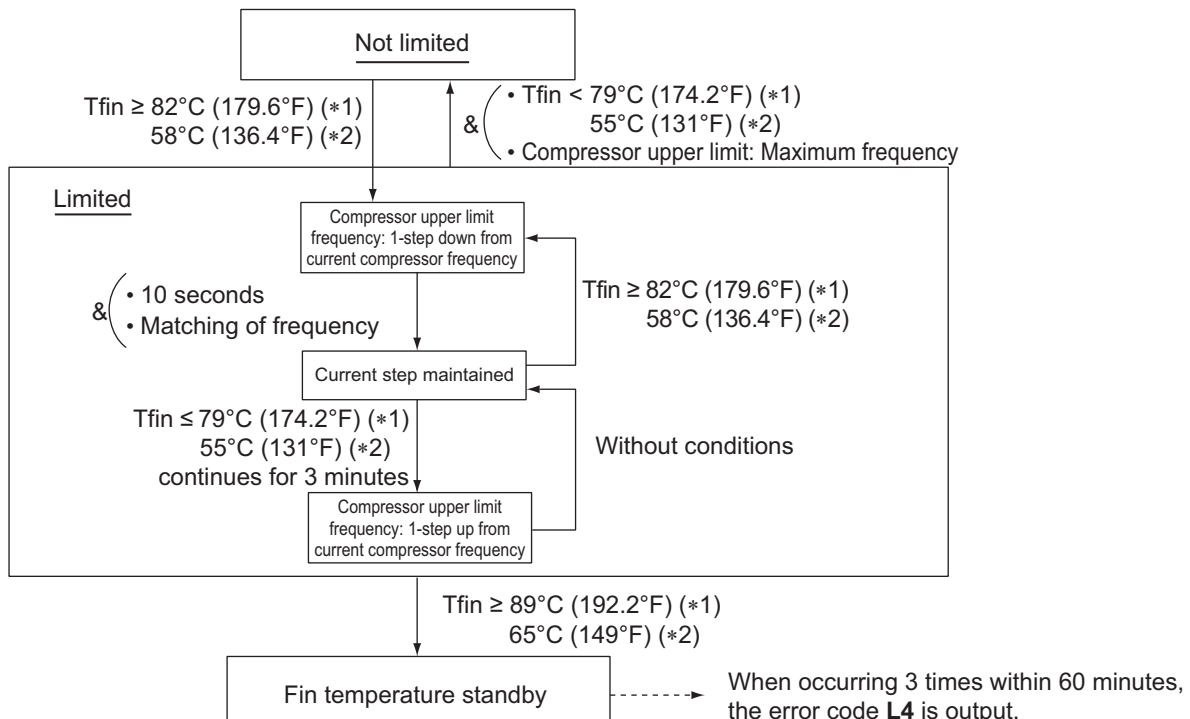
4.4 Inverter Protection Control

Inverter current protection control and radiation fin temperature control are performed to prevent tripping due to an error, or transient inverter overcurrent, and radiation fin temperature increase.
 Tfin: Radiation fin temperature

Inverter overcurrent protection control



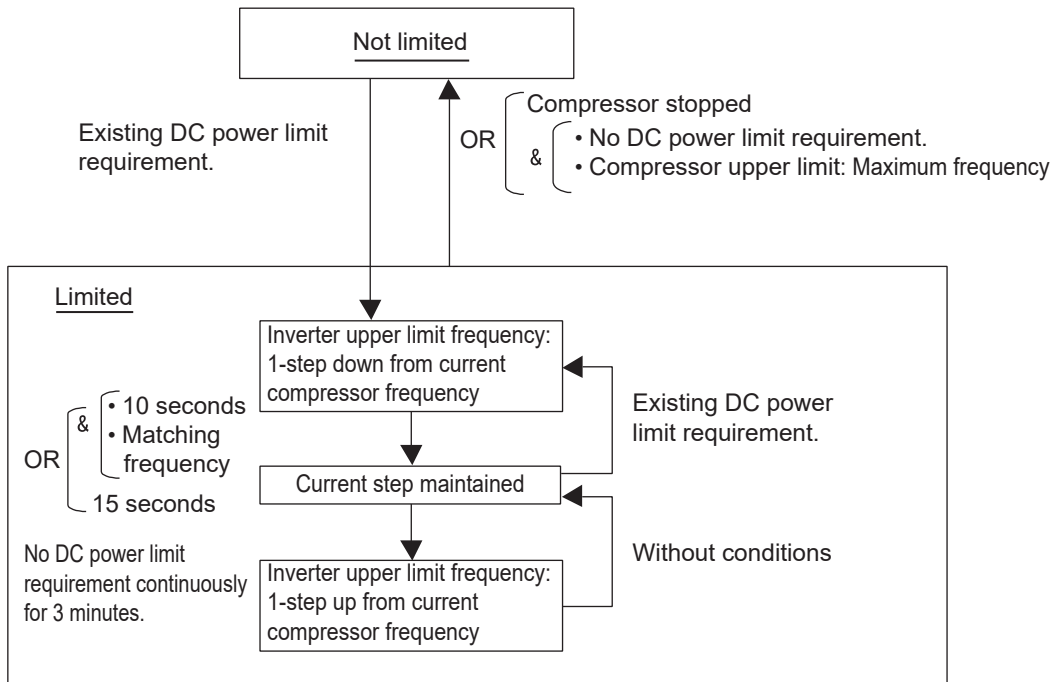
Radiation fin temperature control



*1. For 18/24 class (other than TBVJUB models)

*2. For 30-48 class, RZR18/24TBVJUB, and RZQ18/24TBVJUB

According to the current limit of direct current



5. Other Control

5.1 Demand Operation

In order to reduce power consumption, the outdoor unit capacity is reduced forcibly with control by using Demand Setting 1.

To enable this operation, the additional setting of Constant Demand Setting is required.

Demand setting 1

| Level | Standard for upper limit of power consumption |
|---------------------------|---|
| Level 1 | Approx. 60% |
| Level 2 (Factory setting) | Approx. 70% |
| Level 3 | Approx. 80% |

* Other protection control functions have precedence over the above operation.

5.2 Heating Operation Prohibition

Heating operation is prohibited above 24°CDB (75.2°FDB) outdoor air temperature.

6. Outline of Control (Indoor Unit)

6.1 Remote Controller Thermistor

Temperature is controlled by both the remote controller thermistor and suction air thermistor (*1) for the indoor unit. (This is however limited to when the field setting for the remote controller thermistor is set to Use.)



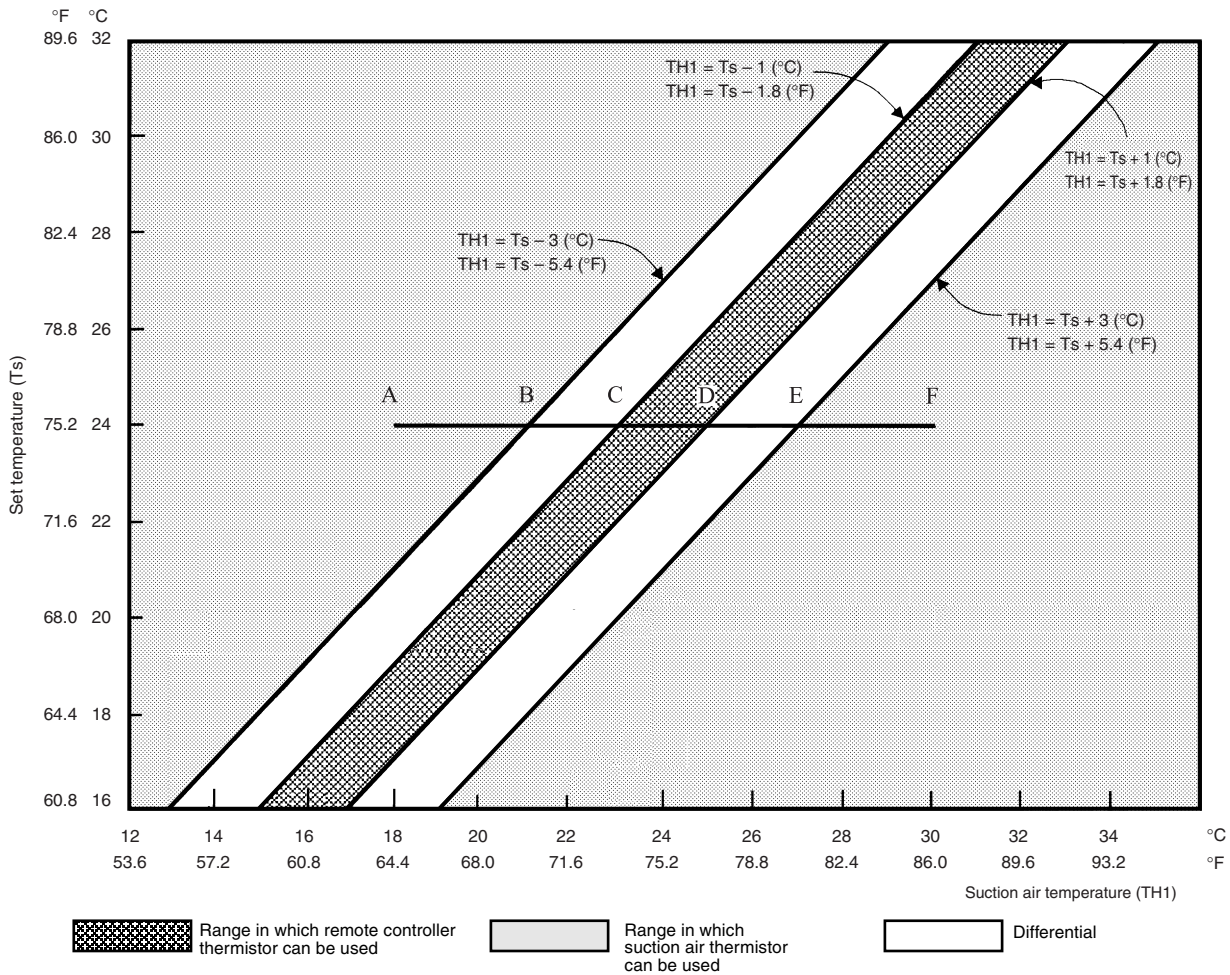
Note(s)

When fresh air intake kit is used, outdoor air is mixed with indoor air, and the room temperature may not reach the set temperature, since TS and TH1 do not enter the area in which remote controller thermistor can be used. In such case, install the remote sensor (optional accessory) in your room, and set the field settings to not use the remote controller thermistor.

* FTQ-TA and FTQ-TB models do not have this control because they do not have suction air thermistor. The thermistor is selectable manually when remote sensor (optional accessory) is installed.

Cooling

If there is a significant difference in the set temperature and the suction temperature, fine adjustment control is carried out using a suction air thermistor (*1), or using the remote controller thermistor near the position of the user when the suction temperature is near the set temperature.



■ Assuming the set temperature in the figure above is 24°C (75°F), and the suction temperature has changed from 18°C (64°F) to 30°C (86°F) (A → F):

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

Suction air thermistor (*1) is used for temperatures from 18°C (64°F) to 23°C (73°F) (A → C).

Remote controller thermistor is used for temperatures from 23°C (73°F) to 27°C (81°F) (C → E).

Suction air thermistor (*1) is used for temperatures from 27°C (81°F) to 30°C (86°F) (E → F).

■ Assuming suction temperature has changed from 30°C (86°F) to 18°C (64°F) (F → A):

Suction air thermistor (*1) is used for temperatures from 30°C (86°F) to 25°C (77°F) (F → D).

Remote controller thermistor is used for temperatures from 25°C (77°F) to 21°C (70°F) (D → B).

Suction air thermistor (*1) is used for temperatures from 21°C (70°F) to 18°C (64°F) (B → A).

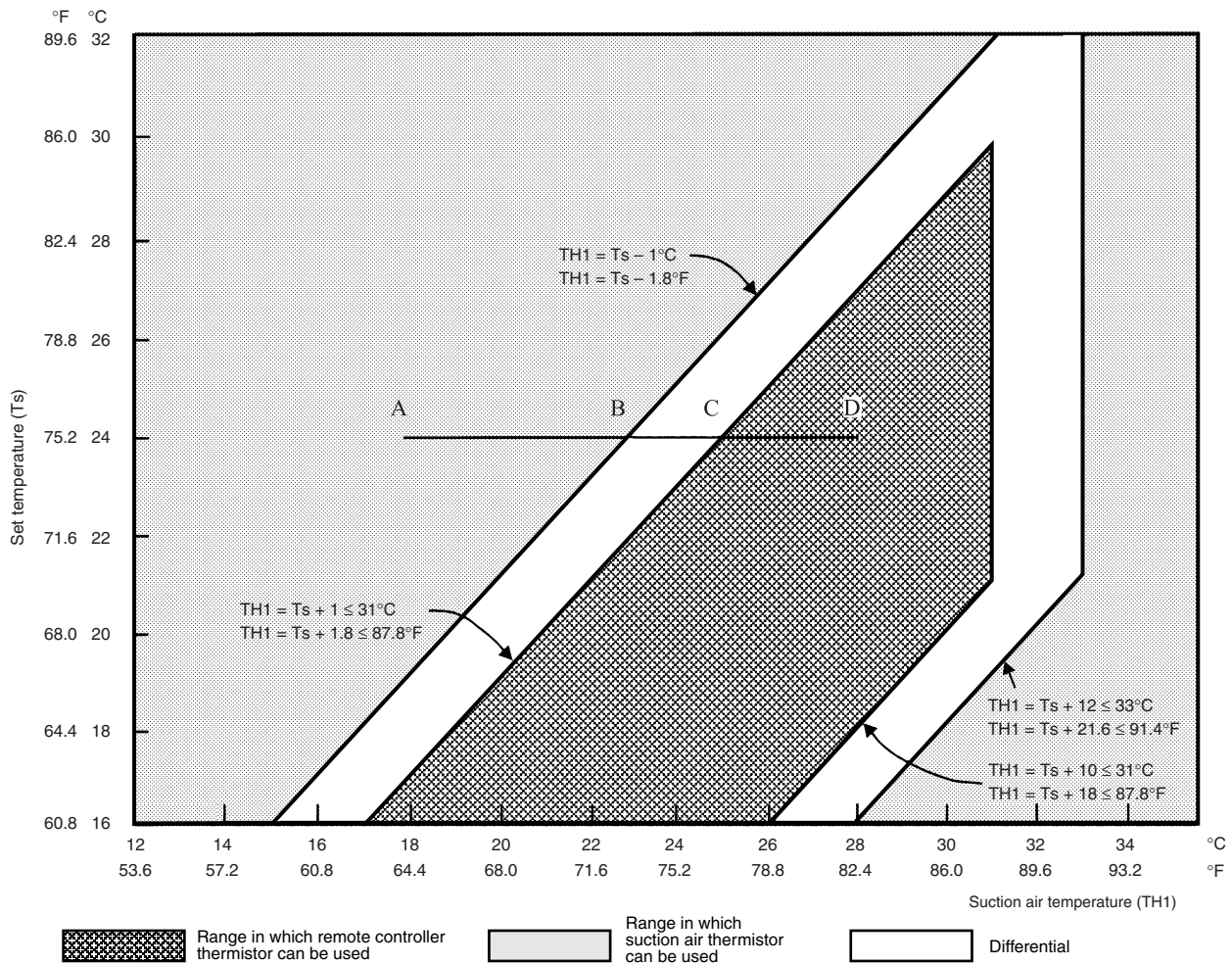


Note(s)

*1. For FTQ: Remote sensor (Optional accessory)

Heating

When heating, the hot air rises to the top of the room, resulting in the temperature being lower near the floor where the occupants are. When controlling by suction air thermistor (*1) only, the indoor unit may therefore be turned off by the thermostat before the lower part of the room reaches the set temperature. The temperature can be controlled so the lower part of the room where the occupants are does not become cold by widening the range in which remote controller thermistor can be used so that suction temperature is higher than the set temperature.



- Assuming the set temperature in the figure above is 24°C (75°F), and the suction temperature has changed from 18°C (64°F) to 28°C (82°F) (A → D):

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

Suction air thermistor (*1) is used for temperatures from 18°C (64°F) to 25°C (77°F) (A → C).

Remote controller thermistor is used for temperatures from 25°C (77°F) to 28°C (82°F) (C → D).

- Assuming suction temperature has changed from 28°C (82°F) to 18°C (64°F) (D → A):

Remote controller thermistor is used for temperatures from 28°C (82°F) to 23°C (73°F) (D → B).

Suction air thermistor (*1) is used for temperatures from 23°C (73°F) to 18°C (64°F) (B → A).



Note(s) *1. For FTQ: Remote sensor (Optional accessory)

6.2 Thermostat Control

The thermostat ON/OFF differential value (factory setting) differs depending on the models.

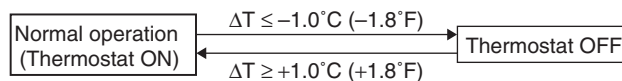
| Differential value | Model |
|--------------------|--------------------------------------|
| 1.0°C (1.8°F) | FCQ-TA, FHQ-P, FHQ-M, FTQ-TA, FTQ-TB |
| 0.5°C (0.9°F) | FCQ-AA, FAQ-TA, FBQ-P, FBQ-TB |

6.2.1 Without Infrared Floor Sensor

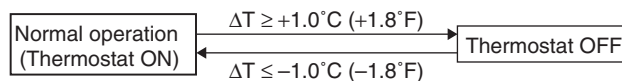
Whether the thermostat is turned ON or OFF is determined by the difference between the remote controller set temperature and the actual detected room temperature (*1).

Normal operation

· Cooling operation

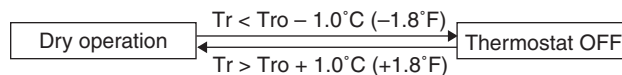


· Heating operation

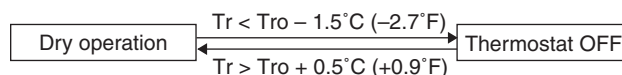


Dry operation

· When $T_{ro} < 24.5^\circ\text{C} (76.1^\circ\text{F})$

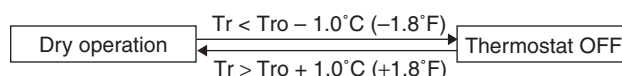


· When $T_{ro} \geq 24.5^\circ\text{C} (76.1^\circ\text{F})$



FBQ-TB, FTQ-TA, FTQ-TB only

If the field setting 11 (21)-12 (for FBQ-TB), or 14 (24)-5 (for FTQ-TA, FTQ-TB) is set to **02**, T_{ro} will be the same as the cooling set temperature.



ΔT = Detected room temperature – Remote controller set temperature

T_{ro} : Detected room temperature at the start of dry operation

Tr : Determined by the room temperature detected by the thermistor

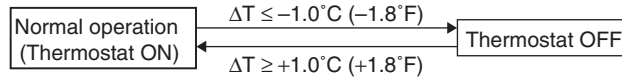
*1: The thermistor for room temperature detection depends on the field setting 10 (20)-2.

6.2.2 With Infrared Floor Sensor

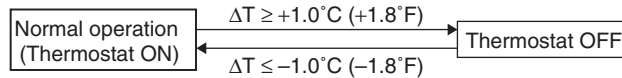
Whether the thermostat is turned ON or OFF is determined by the difference between the remote controller set temperature and the detected temperature around people.

Normal operation

· Cooling operation

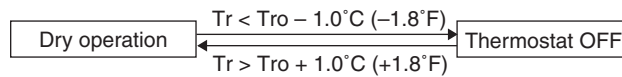


· Heating operation

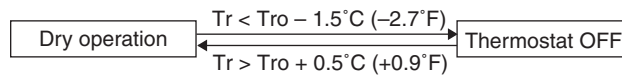


Dry operation

· When $T_{ro} \leq 24.5^{\circ}\text{C} (76.1^{\circ}\text{F})$

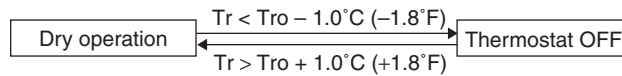


· When $T_{ro} > 24.5^{\circ}\text{C} (76.1^{\circ}\text{F})$



FCQ-AA only

If the field setting 11 (21)-12 is set to **02**, T_{ro} will be the same as the cooling set temperature.



*: Description of symbols

ΔT = Room temperature or temperature around people – Remote controller set temperature

T_{ro} : Room temperature or temperature around people at the start of dry operation

Tr : Room temperature or temperature around people

Control range of temperature around people

When the floor temperature is very low, operation using the temperature around people may cause the suction air temperature to operate outside of use range.

To avoid the above condition, a limit based on the suction air temperature is set for the use range of the temperature around people.

■ Cooling operation

- When the floor temperature is lower than suction air temperature (R1T), R1T will be treated as the control target temperature for operation.
- When the temperature around people is $15^{\circ}\text{C} (59^{\circ}\text{F})$ or lower, R1T will be treated as the control temperature for operation.

■ Heating operation

- When the floor temperature is higher than suction air temperature (R1T), R1T will be treated as the control target temperature in operation.
- When the temperature around people is $33^{\circ}\text{C} (91.4^{\circ}\text{F})$ or higher, R1T will be treated as the control temperature for operation.

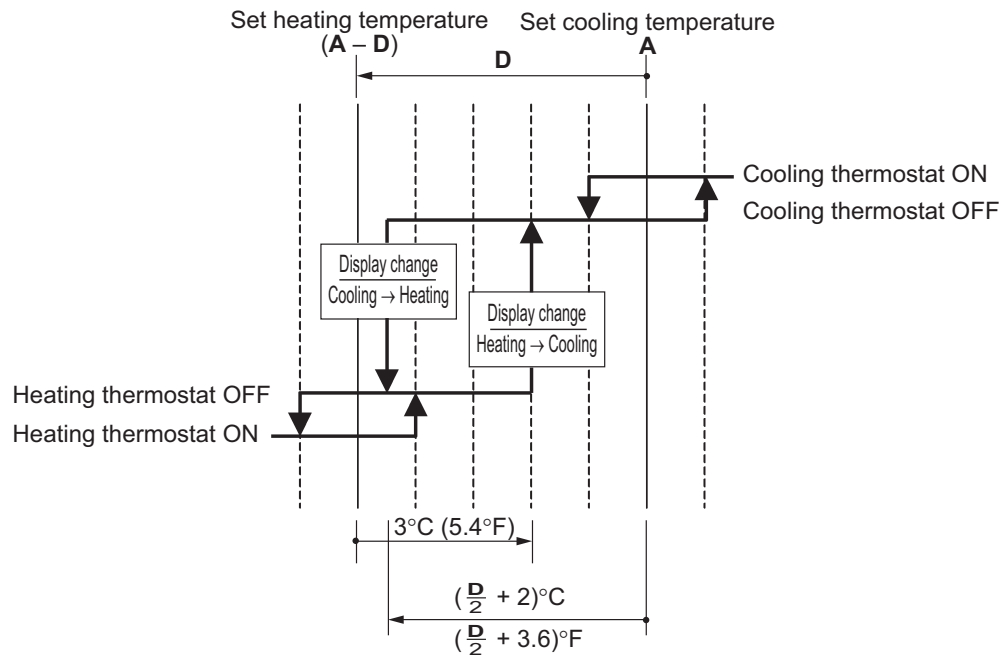
6.3 Thermostat Control with Operation Mode Set to AUTO

The system will conduct this temperature control shown below, only when the wireless remote controller or any central remote controller is connected.

Furthermore, setting changes of the differential value (D) can be made.

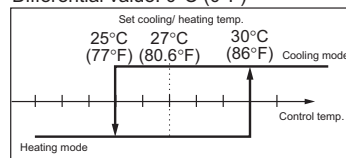
★: Factory setting

| Mode No. | First code No. | Contents of setting | Second code No. | | | | | | | |
|------------|----------------|---|-----------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| | | | 01★ | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| 12 (22) | 4 | Differential value while in AUTO operation mode | 0°C 0°F ★ | 1°C 1.8°F | 2°C 3.6°F | 3°C 5.4°F | 4°C 7.2°F | 5°C 9.0°F | 6°C 10.8°F | 7°C 12.6°F |

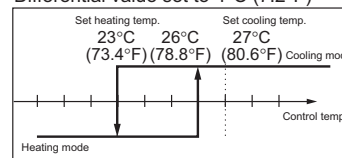


(Ex.) When automatic cooling temperature is set to 27°C (80.6°F):

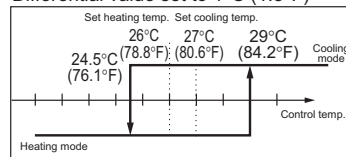
Differential value: 0°C (0°F)



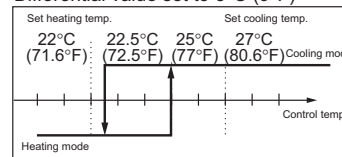
Differential value set to 4°C (7.2°F)



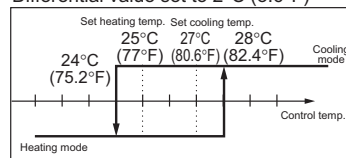
Differential value set to 1°C (1.8°F)



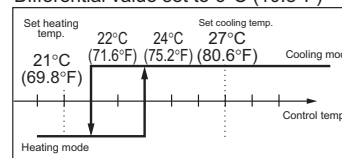
Differential value set to 5°C (9°F)



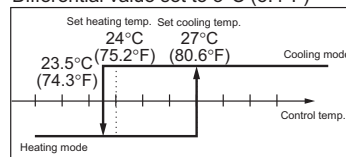
Differential value set to 2°C (3.6°F)



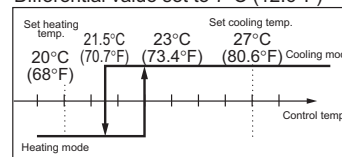
Differential value set to 6°C (10.8°F)



Differential value set to 3°C (5.4°F)



Differential value set to 7°C (12.6°F)



6.4 List of Swing Flap Operations

Swing flaps operate as shown in table below.

| Operation mode | | | Fan | Flap | | |
|----------------|---|-----------------------|----------|------------|------------|----------------|
| | | | | FCQ | FHQ | FAQ |
| Heating | Hot start from defrost operation | Swing | OFF | Horizontal | Horizontal | Horizontal |
| | | Airflow direction set | OFF | Horizontal | Horizontal | Horizontal |
| | Defrost operation | Swing | OFF | Horizontal | Horizontal | Horizontal |
| | | Airflow direction set | OFF | Horizontal | Horizontal | Horizontal |
| | Thermostat OFF | Swing | LL | Horizontal | Horizontal | Horizontal |
| | | Airflow direction set | LL | Horizontal | Horizontal | Horizontal |
| | Hot start from thermostat OFF mode (for prevention of cold air) | Swing | LL | Horizontal | Horizontal | Horizontal |
| | | Airflow direction set | LL | Horizontal | Horizontal | Horizontal |
| | Stop | Swing | OFF | Horizontal | Horizontal | Totally closed |
| | | Airflow direction set | OFF | Horizontal | Horizontal | Totally closed |
| Cooling | Thermostat ON in program dry | Swing | L (*1) | Swing | Swing | Swing |
| | | Airflow direction set | L (*1) | Set | Set | Set |
| | Thermostat OFF in program dry | Swing | OFF or L | Swing | Swing | Swing |
| | | Airflow direction set | | Set | Set | Set |
| | Thermostat OFF in cooling | Swing | Set | Swing | Swing | Swing |
| | | Airflow direction set | Set | Set | Set | Set |
| | Stop | Swing | OFF | Horizontal | Horizontal | Totally closed |
| | | Airflow direction set | OFF | Set | Horizontal | Totally closed |
| | Microcomputer control (including cooling operation) | Swing | L | Swing | Swing | Swing |
| | | Airflow direction set | L | Set | Set | Set |



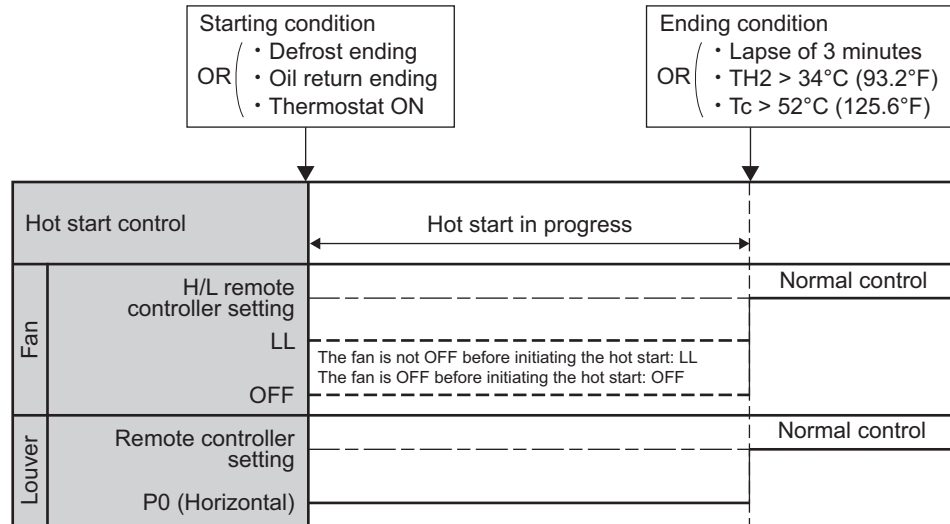
Note(s) *1. L or LL only on FCQ models

6.5 Hot Start Control (In Heating Operation Only)

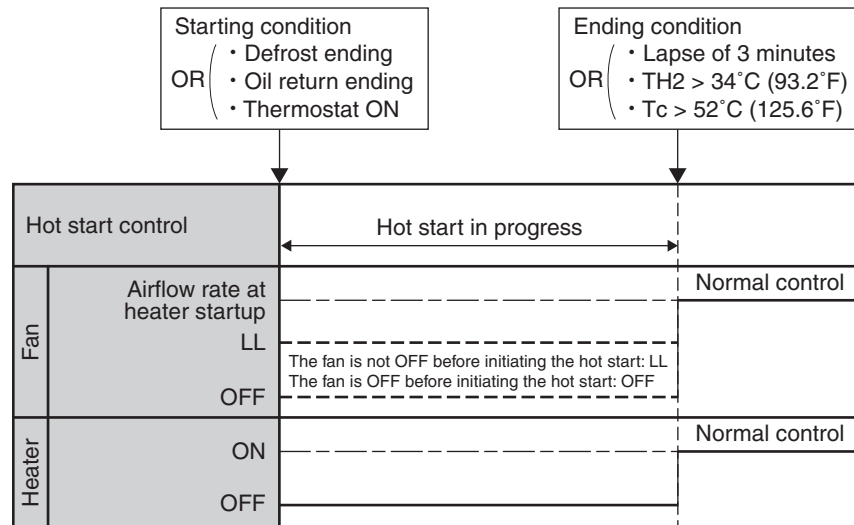
At startup with thermostat ON or after the completion of defrosting in heating operation, the indoor fan is controlled to prevent cold air from blasting out and ensure startup capacity.

TH2: Temperature detected with the gas thermistor

Tc: High pressure equivalent saturated temperature

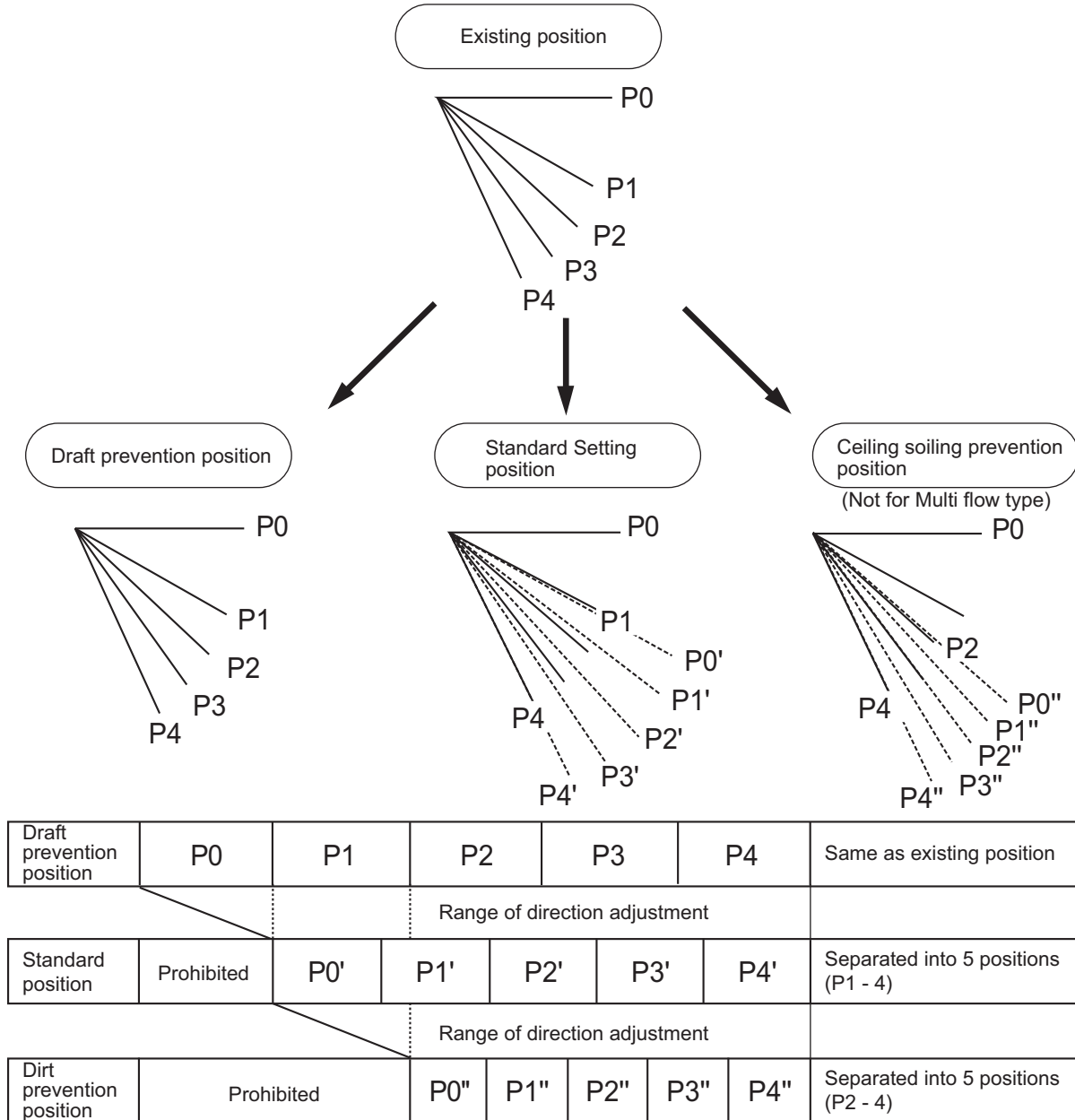


■ FTQ-TA, FTQ-TB (when the heater is to be used)



6.6 Louver Control for Preventing Ceiling Dirt (FCQ Models Only)

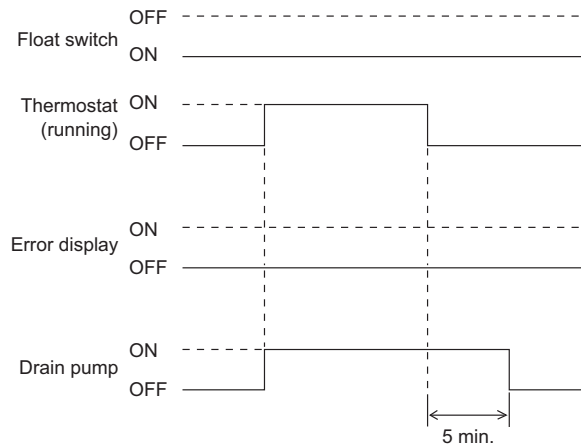
We have added a control feature that allows you to select the range of in which air direction can be adjusted in order to prevent the ceiling surrounding the air discharge outlet of ceiling mounted cassette type units from being soiled.



The factory setting position is draft prevention position.

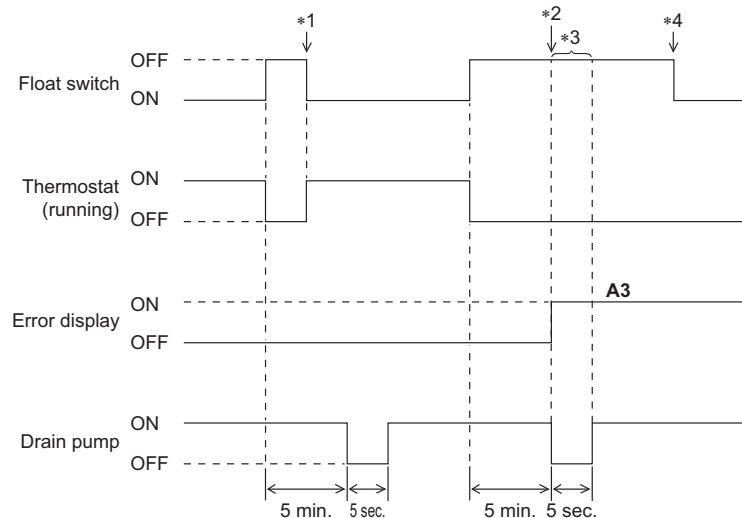
6.7 Drain Pump Control

6.7.1 Normal Operation



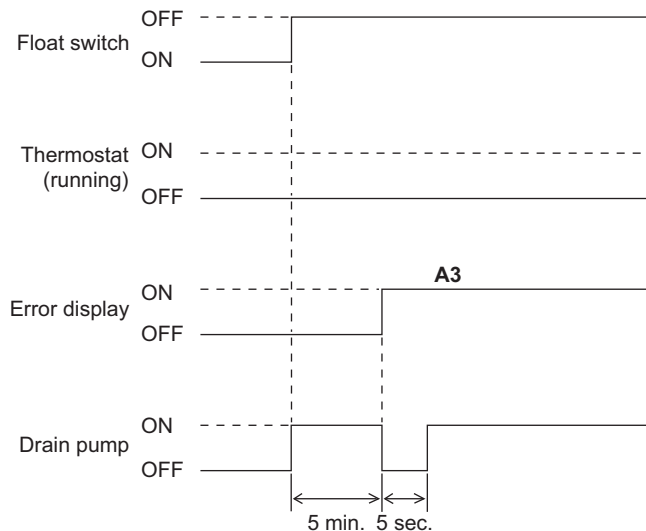
- The float switch is ON in normal operation.
- When cooling operation starts (thermostat ON), the drain pump turns ON simultaneously.
- After the thermostat turns OFF, the drain pump continues to operate for another 5 minutes.
- The aim of residual operation after thermostat OFF is to eliminate the dew that condenses on the indoor heat exchanger during cooling operation.

6.7.2 If the Float Switch is OFF with the Thermostat ON in Cooling Operation



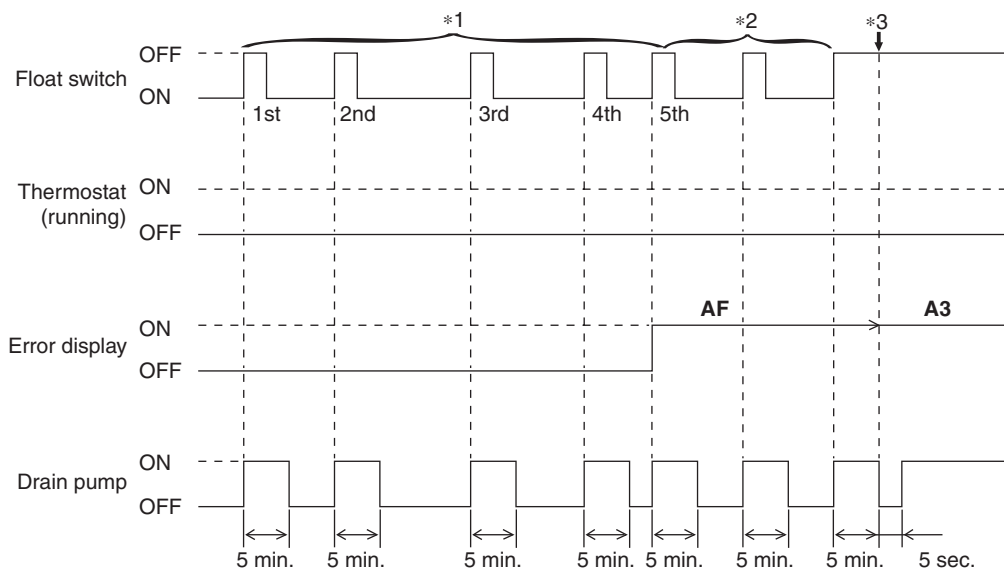
- When the float switch turns OFF, the thermostat turns OFF simultaneously.
- After the thermostat turns OFF, the drain pump continues to operate for another 5 minutes.
- *1. If the float switch turns ON again during the residual operation of the drain pump, cooling operation also turns on again (thermostat ON).
- *2. If the float switch remains OFF even after the residual operation of the drain pump has ended, the error code **A3** is displayed on the remote controller.
- *3. The drain pump turns OFF once residual operation has ended, then turns ON again after 5 seconds.
- *4. After **A3** is displayed and the unit comes to an abnormal stop, the thermostat will remain OFF even if the float switch turns ON again.

6.7.3 If the Float Switch is OFF with the Thermostat OFF in Cooling Operation



- ◆ When the float switch turns OFF, the drain pump turns ON simultaneously.
- ◆ If the float switch remains OFF even after the residual operation of the drain pump has ended, the error code **A3** is displayed on the remote controller.
- ◆ The drain pump turns OFF once residual operation has ended, then turns ON again after 5 seconds.

6.7.4 If the Float Switch Turns OFF and ON Continuously, or the Float Switch Turns OFF While AF Displayed



- ◆ When the float switch turns OFF, the drain pump turns ON simultaneously.
- *1: If the float switch continues to turn OFF and ON 5 times consecutively, it is judged as a drain system error and the error code **AF** is displayed on the remote controller.
- *2: The drain pump continues to turn ON/OFF in accordance with the float switch ON/OFF even after **AF** is displayed on the remote controller.
- *3: While the error code **AF** is displayed, if the float switch remains OFF even after the residual operation of the drain pump has ended, the error code **A3** will be displayed on the remote controller.

6.8 Freeze-Up Prevention

Freeze-Up Prevention by Off Cycle (Indoor Unit Individual Control)

When the temperature detected by the liquid pipe temperature thermistor of the indoor heat exchanger drops too low, the unit enters freeze-up prevention control in accordance with the following conditions, and is also set in accordance with the conditions given below. (Thermostat OFF)

When freeze-up prevention is activated, the electronic expansion valve is closed, the drain pump turns on and the airflow rate is fixed to L tap. When the following conditions for cancelling are satisfied, it will reset.

Conditions for starting:

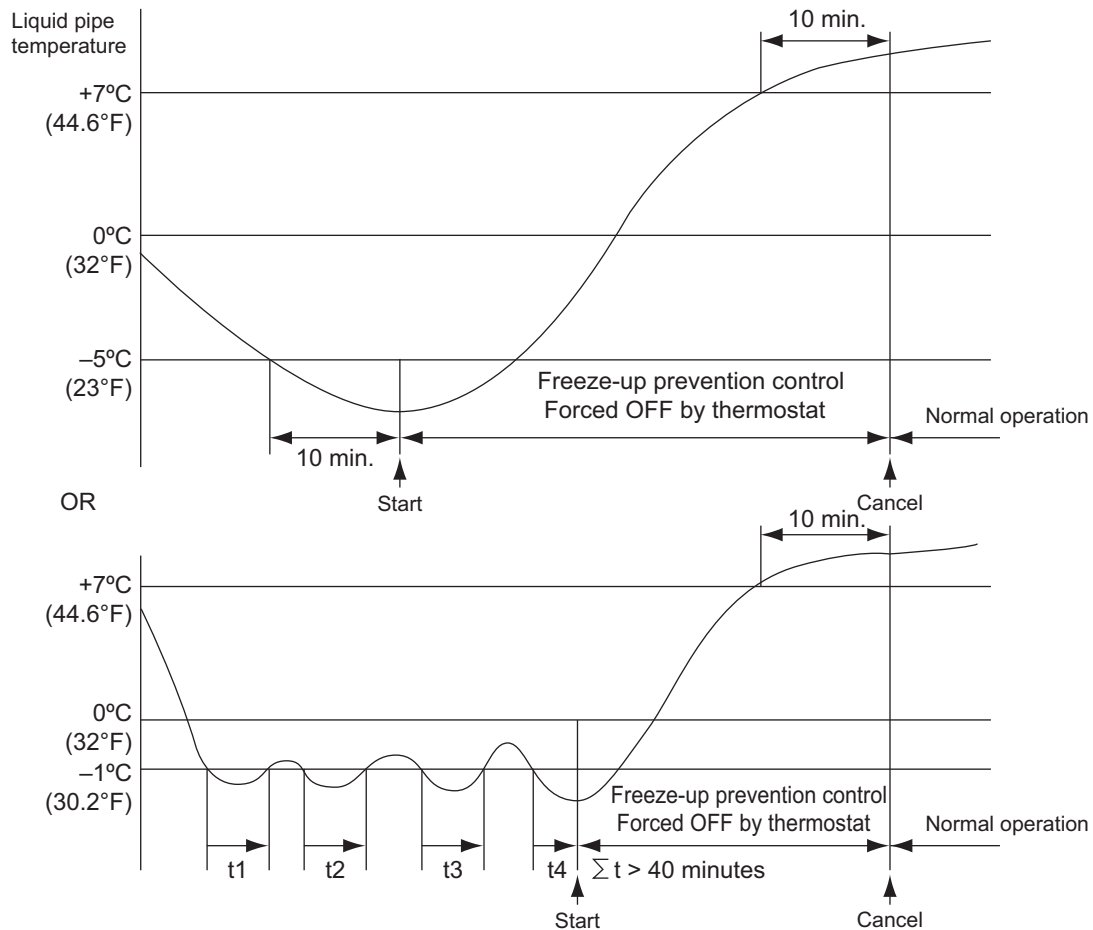
Liquid pipe temperature $\leq -1^{\circ}\text{C}$ (30.2°F) (for total of 40 minutes)

or

Liquid pipe temperature $\leq -5^{\circ}\text{C}$ (23°F) (for total of 10 minutes)

Condition for cancelling:

Liquid pipe temperature $\geq +7^{\circ}\text{C}$ (44.6°F) (for 10 minutes continuously)



Concept of freeze-up prevention control

System avoids freeze-up

- ◆ For comfort, system avoids unnecessary thermostat ON/OFF
- ◆ For ensuring compressor reliability, system avoids unnecessary compressor ON/OFF

When freeze-up prevention control starts, system makes sure the frost is completely removed.

- ◆ System avoids water leakage.



Note(s) When the indoor unit is FCQ, if the air outlet is set as dual-directional or tri-directional, the starting conditions will be changed as follows.

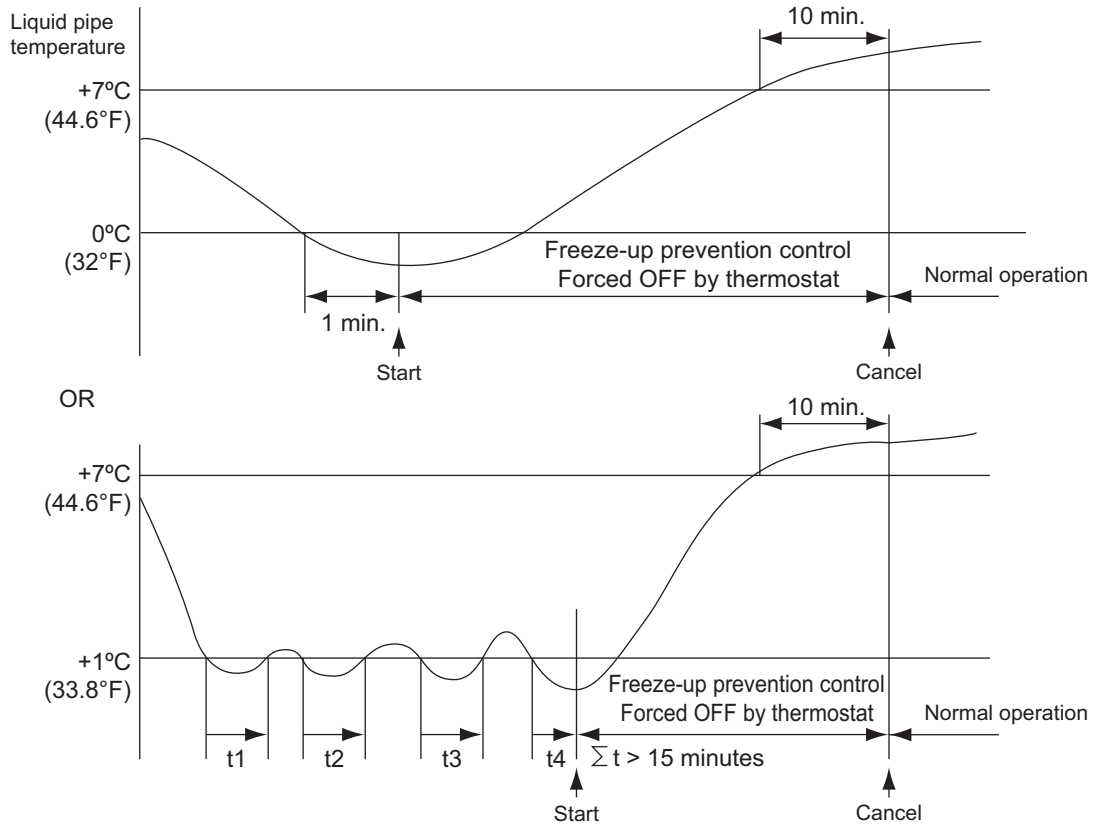
Liquid pipe temperature $\leq 1^{\circ}\text{C}$ (33.8°F) (for total of 15 minutes)

or

Liquid pipe temperature $\leq 0^{\circ}\text{C}$ (32°F) (for 1 minute continuously)

During freeze-up prevention operation, the airflow rate is fixed to LL.

(The cancelling conditions are same as the standard.)



6.9 Heater Control (Except FTQ-TA, FTQ-TB Models)

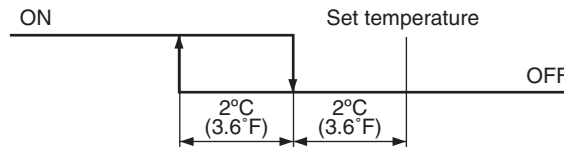


Note(s) Optional PCB KRP1B... is required for heater control.

Heater control is conducted in the following manner.

Normal control

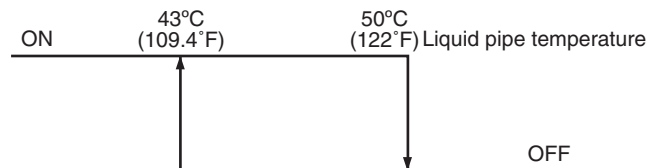
While in heating operation, heater control (ON/OFF) is conducted as shown on the right.



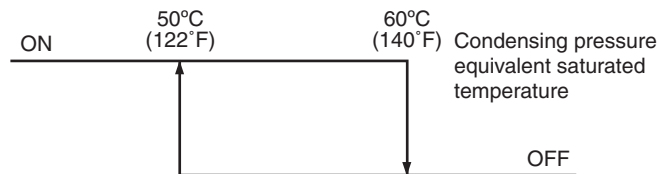
Overload control

When the system is overloaded in heating operation, the heater will be turned OFF in the following two manners.

(1) Heater control (ON/OFF) is conducted through the liquid pipe temperature (R2T) of the indoor unit.



(2) Heater control (ON/OFF) is conducted by converting the heater temperature into the condensing pressure equivalent saturated temperature (T_c) according to the temperature detection through the high pressure sensor (S1NPH) of the outdoor unit.



Fan residual operation

When the heater turns OFF, in order to prevent the activation of the thermal protector, the fan conducts residual operation for a given period of time after the heater turns OFF. (This operation is conducted regardless of whether or not a heater is equipped.)

Residual operation time: 100 seconds on ceiling suspended type or 60 seconds on other types

6.10 Heater Control (FTQ-TA, FTQ-TB Models)



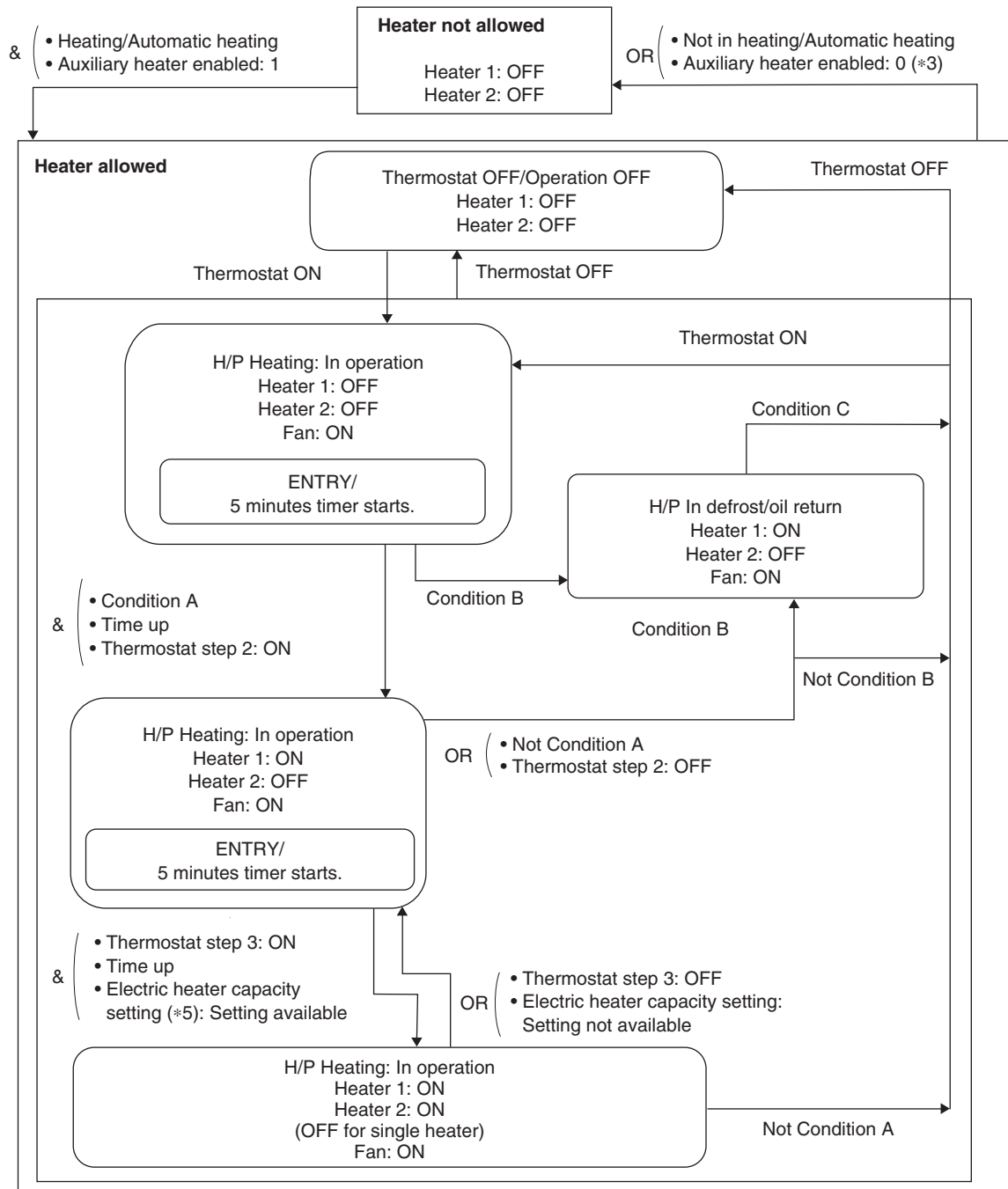
Note(s)

Optional heater kit HKS... is required.

For FTQ-TA and FTQ-TB models, heater ON/OFF output from wiring adaptor interlocks with the operation of heater kit HKS....(When the heater 1 turns ON/OFF, heater output of wiring adaptor turns ON/OFF.) Fan residual operation also interlocks with the fan residual operation of heater kit HKS.... The residual time will be 90 seconds. (Refer to **Fan Control (Heater Residual) (FTQ-TA, FTQ-TB Models)** on page 206.)

6.10.1 Auxiliary Electric Heater Control

If heating is insufficient in heat pump system alone, an electric heater is to be used as the auxiliary heater. The following shows the ON/OFF conditions for the electric heater.



Condition A

- No fan motor system error
 - High pressure condition: ON (*1)
 - Liquid pipe temperature condition: ON (*2)
- & (
- OR (
 - & (
 - Heater ON permission (Defrost/oil Return): 0 (*4)
 - Not during defrost/oil return
- Heater ON permission (Defrost/oil return): 1 (*4)

Condition B

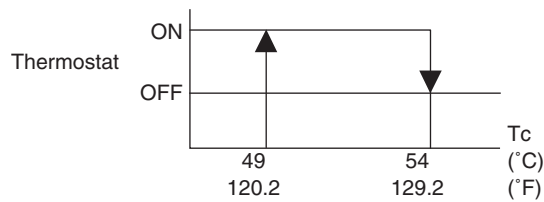
- No fan motor system error
- During defrost/oil return
- Heater ON permission (Defrost/oil return): 1 (*4)

Condition C

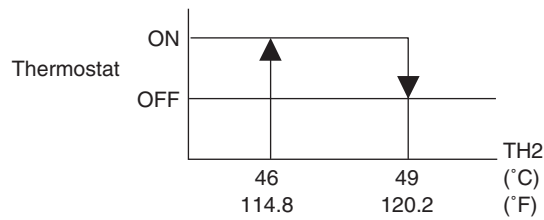
- OR (
- Not during defrost/oil return
- Fan motor system error
- Heater ON permission (Defrost/oil return): 0 (*4)

 Note(s)

*1: High pressure condition



*2: Liquid pipe temperature condition



*3. Auxiliary heater enabled

- 1: & (
 - Electric heater setting (Field setting 11 (21)-3.): **02, 08** (*6)
 - Electric heater capacity setting \neq **01**
- 0: Other than the above

*4. Heater ON permission (Defrost/oil return)

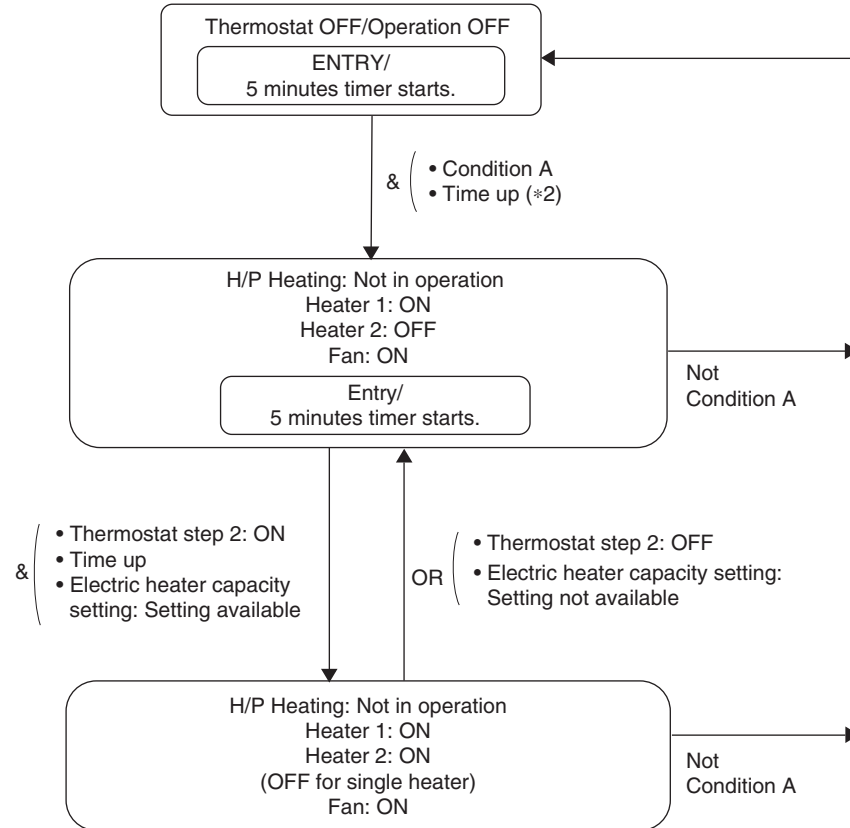
- 1: Electric heater setting (Field setting 11 (21)-3.): **08** (*6)
- 0: Electric heater setting (Field setting 11 (21)-3.): **02** (*6)

*5. Field setting 11 (21)-5. Refer to page 223.

*6. Field setting 11 (21)-3. Refer to page 223.

6.10.2 Heat Pump Lockout Control

For heating operation, users can select to use electric heater. For this, signals are sent using ABC terminal of outdoor unit PCB.
 When the hot-water heating signal is received from the outdoor unit PCB, heating operation is performed only with the electric heater as manual backup operation. The ON/OFF conditions for the electric heater are shown below.



- Condition A
- Heating or automatic heating mode
 - Thermostat step 1: ON
 - No fan motor system error
 - Hot-water heater: 1 (ON)
 - Heater backup prohibiting conditions (*1) not met (Not Condition B)

- Condition B: Heater backup prohibiting conditions (*1)
- Indoor unit error (Abnormal stop)
 - Indoor unit error (Remote controller thermistor error)
 - Indoor unit error (Remote sensor error)
 - Electric heater capacity setting: 01 (No heater kit)

i Note(s)

- *1: The heater backup prohibiting conditions are prioritized. Even when the heater ON conditions are met, the heater is turned OFF when the prohibiting conditions are met.
- *2: When the remote controller is ON, Time-up will be set to the initial value.

6.11 3-Step Thermostat Processing (FTQ-TA, FTQ-TB Models)

Outline

The thermostat ON/OFF for the indoor unit is controlled in accordance with Thermostat step 1.

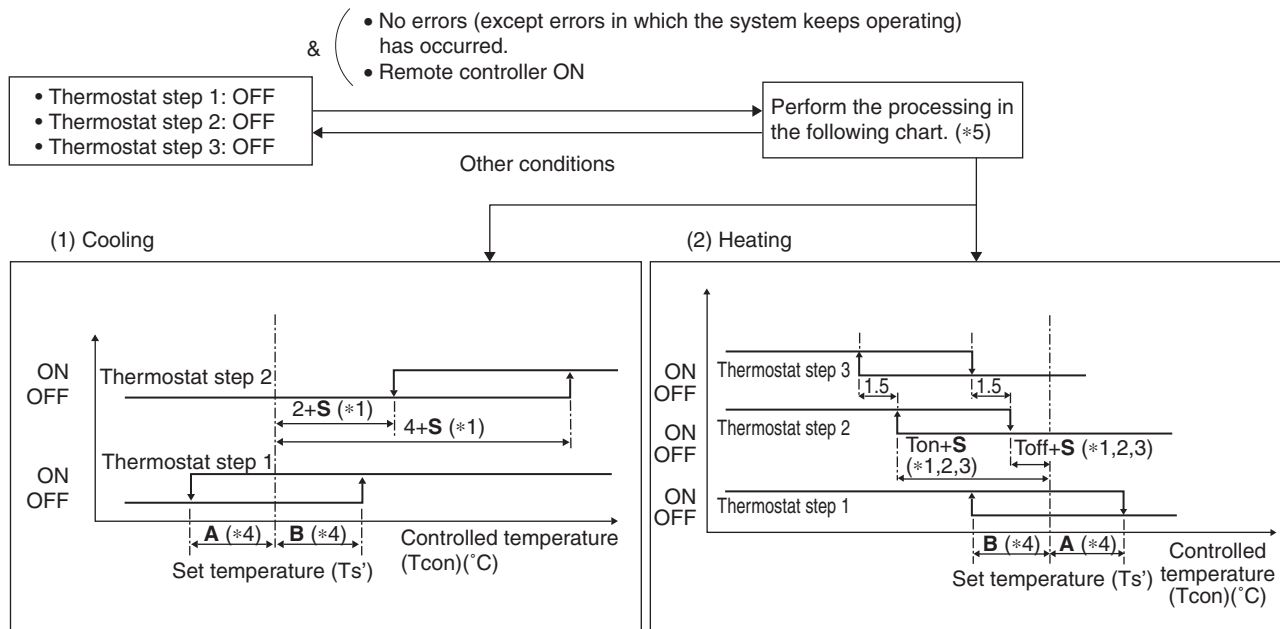
The heater ON/OFF operation during heating is controlled as follows.

Thermostat step 2, 3: Auxiliary electric heater control

Thermostat step 1, 2: Heat pump lockout control

For more details of the heater, refer to **Heater Control (FTQ-TA, FTQ-TB Models)** on page 202.

Detail



Note(s)

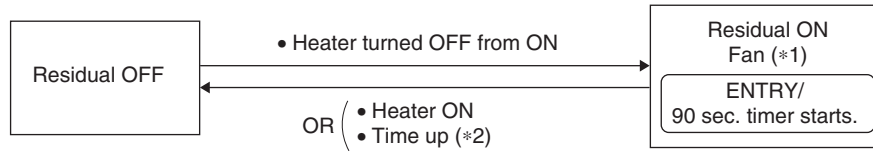
- *1. **S** value varies automatically based on the room temperature trend.
- *2. $T_{on} + S > -B$ ($^{\circ}C$), $T_{off} + S < A$ ($^{\circ}C$)
- *3. For parameters, refer to page 222.
- *4. **A** and **B** values vary automatically based on the field setting 12 (22)-2.
- *5. If, directly after a change in conditions, it is such that the thermostat could be either ON or OFF (controlled temperature is within ranges **A** and **B**), the thermostat will be switched to ON.

6.12 Fan Control (Heater Residual) (FTQ-TA, FTQ-TB Models)

Outline

If the indoor heater turned OFF from ON during heating operation, the fan will keep operating for further period of time in order to cool the heater.

Detail



- *1. When the heater is ON, the airflow rate of the fan will be whichever is the largest between the CFM dictated by the heater's own capacity, or the fan tap CFM determined by other controls.
- *2. Fan residual operation will continue, even if the indoor unit is turned off with the remote controller operation button.

6.13 Interlocked with External Equipment (FTQ-TA, FTQ-TB Models)

6.13.1 Air Purifier (UV Lamp)

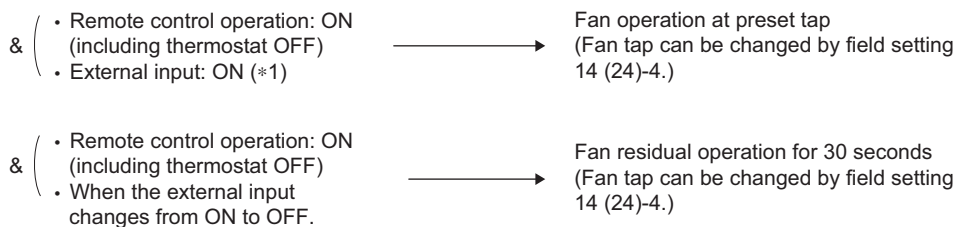
When an air purifier is connected onsite, the fan is operated with the airflow rate set of the remote controller or with the H tap.



- *1. External input ON is an input signal to the X1M-AIR CLEANER terminal on the PCB.
- *2. Field setting 14 (24)-4. Refer to page 230.

6.13.2 Humidifier

When a humidifier is connected onsite, the fan operates with the airflow rate set of the remote controller or with the H tap.



- *1. External input ON is an input signal to the X1M-AIR CLEANER terminal on the PCB.
- *2. Field setting 14 (24)-4. Refer to page 230.

i Note(s)

This control is not applicable to the humidifier connected to the wiring adaptor, but to the humidifier connected to HUMIDIFIER on the X1M terminal of the indoor unit PCB.

6.13.3 Economizer

When indoor and outdoor air temperatures are reversed, the compressor is stopped to let in the outdoor air to save energy.

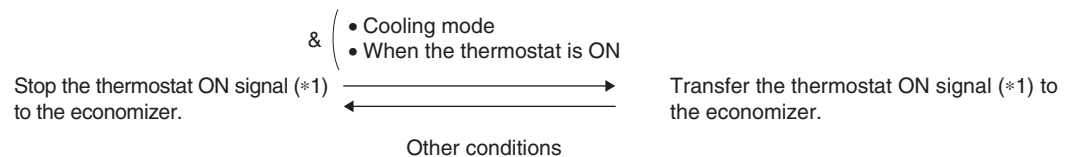
This operation is called economizer operation, and the equipment to detect indoor and outdoor air temperatures and open and close the damper to perform this operation is called an economizer.

The economizer detects indoor and outdoor air temperatures, informs the air conditioner that the economizer operation is ready, and opens and closes the damper.

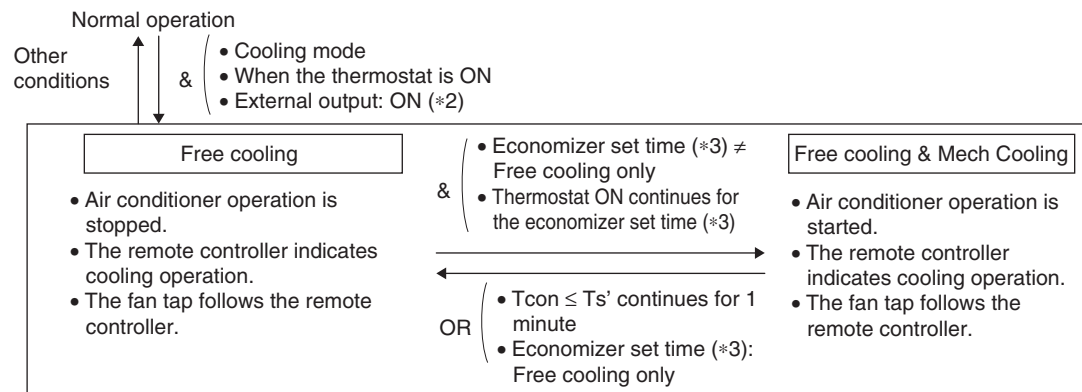
The indoor unit stops the outdoor unit when it receives a signal from the economizer and performs air supply operation.

When the indoor air temperature is cooled down sufficiently by the economizer operation, and it is no longer necessary (thermostat OFF), the indoor unit outputs a signal to the economizer to close the damper.

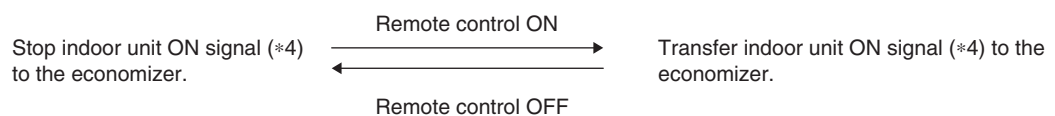
■ Thermostat ON signal



■ Operation



■ Indoor unit ON signal



- *1 Thermostat ON signal: A signal to turn ON the indoor unit thermostat and allow the economizer to open the damper.
It turns ON the relay on the X2M-ECONOMIZER2 on the PCB.
- *2 External input ON is an input signal to the X1M-ECONOMIZER1 terminal on the PCB.
- *3 Refer to **Optional Kit Setting (UV lamp + Humidifier + Economizer)** on page 230.
- *4 Remote control ON signal: Contact output which shows the operating status of the indoor unit.
This signal turns on the relay X2M-CONTROL ON/OFF on the PCB.

Part 5

Field Settings and Test Operation

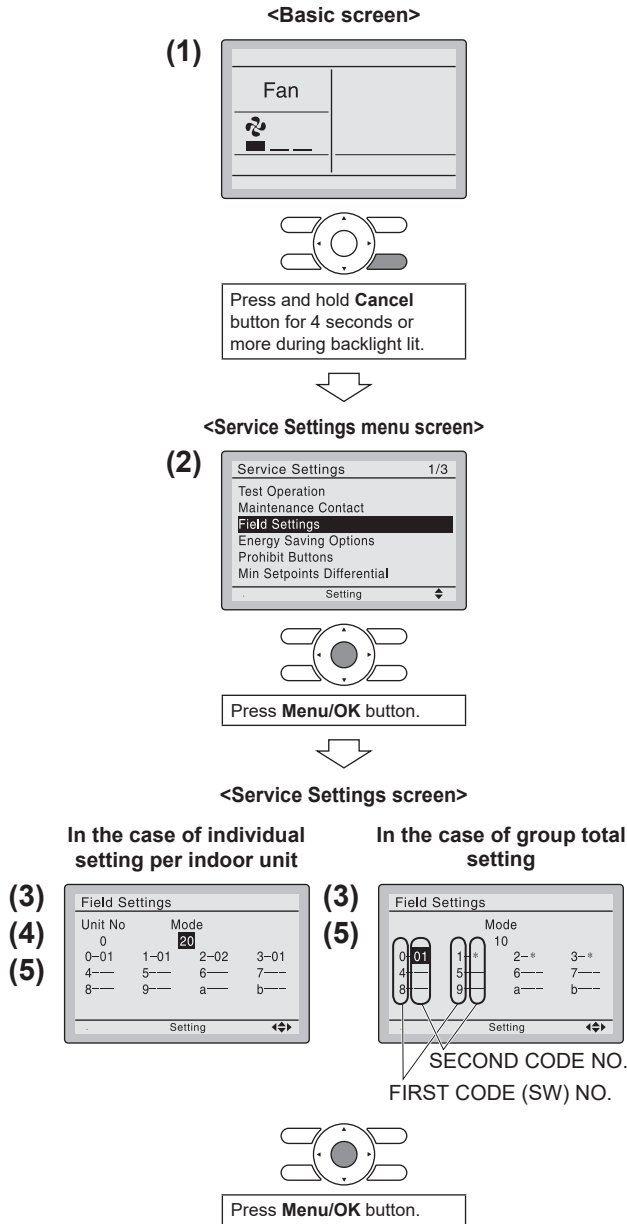
| | |
|---|-----|
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| 1.2 Simplified Remote Controller | 214 |
| 1.3 Wireless Remote Controller | 215 |
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1. Field Setting from Remote Controller

Individual function of indoor unit can be changed from the remote controller. At the time of installation or after service inspection / repair, make the field setting in accordance with the following description. Wrong setting may cause error. (When optional accessory is mounted on the indoor unit, setting for the indoor unit may be required to change.)

1.1 Wired Remote Controller

1.1.1 BRC1E73



1. Press and hold **Cancel** button for 4 seconds or more. Service settings menu is displayed.

2. Select **Field Settings** in the Service Settings menu, and press **Menu/OK** button. Field settings screen is displayed.

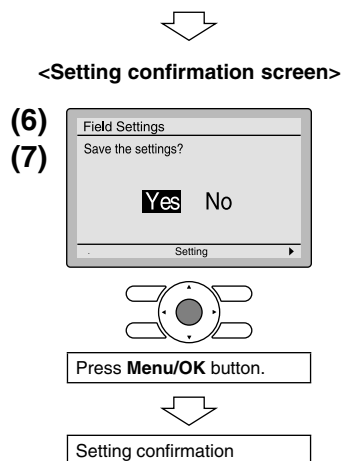
3. Highlight the mode, and select desired **Mode No.** by using **▲▼** (Up/Down) button.

4. In the case of setting per indoor unit during group control (When Mode No. such as **20, 21, 22, 23, 25** are selected), highlight the unit No. and select **Indoor unit No.** to be set by using **▲▼** (Up/Down) button. (In the case of group total setting, this operation is not needed.)

In the case of individual setting per indoor unit, current settings are displayed. And, SECOND CODE NO. " - " means no function.

5. Highlight SECOND CODE NO. of the FIRST CODE NO. to be changed, and select desired **SECOND CODE NO.** by using **▲▼** (Up/Down) button. Multiple identical mode number settings are available.

In case of setting for all indoor units in the remote control group, available SECOND CODE NO. is displayed as " * " which means it can be changed. When SECOND CODE NO. is displayed as " - ", there is no function.



6. Press **Menu/OK** button. Setting confirmation screen is displayed.

7. Select **Yes** and press **Menu/OK** button. Setting details are determined and field settings screen returns.

8. In the case of multiple setting changes, repeat (3) to (7).

9. After all setting changes are completed, press **Cancel** button twice.

10. Backlight goes out, and **Checking the connection. Please standby.** is displayed for initialization. After the initialization, the basic screen returns.

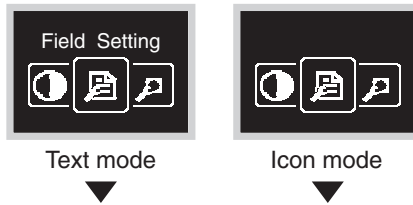
NOTE


- Installation of optional accessories on the indoor unit may require changes to field settings. See the manual of the optional accessory.
- For field setting details related to the indoor unit, see installation manual shipped with the indoor unit.

1.1.2 BRC1H71W

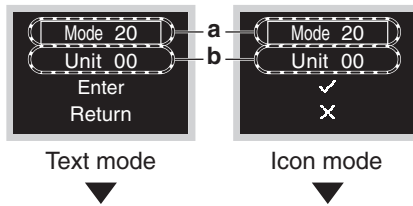
Enter the Installer Menu and make settings.

Installer menu screen



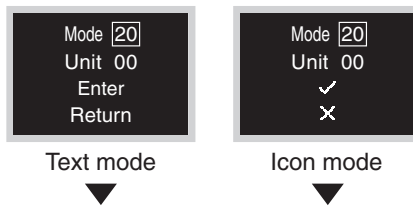
Press **←** or **→** button, for move to “”.
If Bluetooth is connected, performing field setting from the remote controller side is impossible.
Disconnect Bluetooth, or perform field setting from the mobile application.

Sub-menu screen



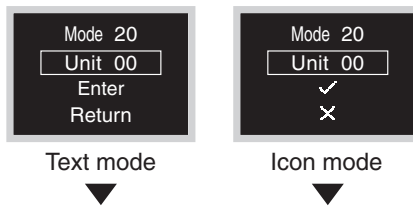
Press **+** or **-** button, to select Mode No. and press **○** to enter the field setting menu.
a Mode No.
b Unit No.

Sub-menu screen

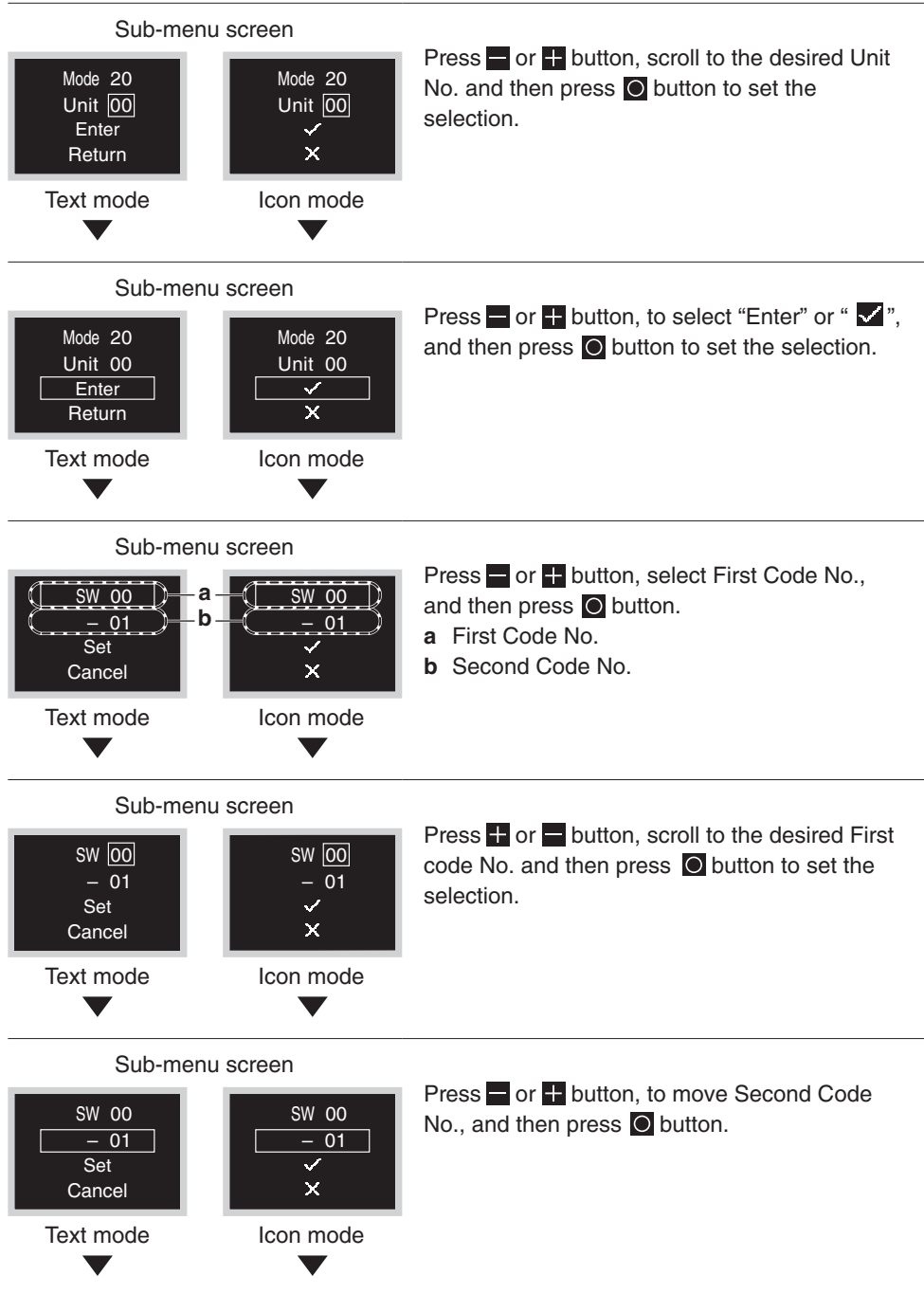


Press **←** or **→** button, to scroll the desired Mode No. and press **○** button.

Sub-menu screen



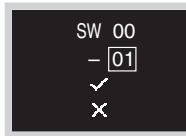
Press **←** or **→** button, to select Unit No. and press **○** button.



Sub-menu screen



Text mode



Icon mode

Press **←** or **→** button, to scroll to the desired Second Code No., and then press **○** button.

Sub-menu screen



Text mode

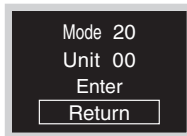


Icon mode

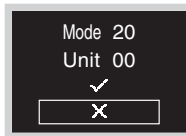
Press **←** or **→** button, select “Set” or “**✓**”, and then press **○** button to save the setting and return to the previous screen.

If the setting is not changed, select “Cancel” or “**✕**”.

Sub-menu screen



Text mode



Icon mode

Press **←** or **→** button, move to “Return” or “**✕**”, and then press **○** button to return to the installer menu.

* If the setting has been changed, the screen may return to the home screen without returning to the installer menu.

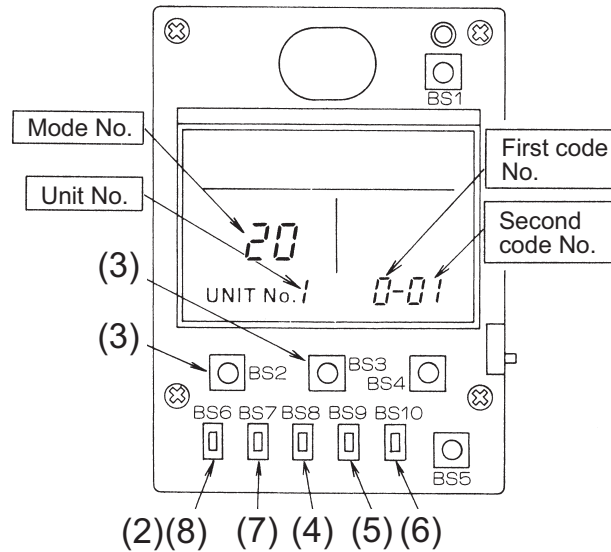
⚠ CAUTION

- The connection of optional accessories to the indoor unit might cause changes to some field settings. For more information, see the installation manual of the optional accessory.
- For details about the specific field settings of each type of indoor unit, see the installation manual of the indoor unit.
- Field settings that are not available for a connected indoor unit are not displayed.
- Field setting default values are different depending on the indoor unit model.

! NOTICE

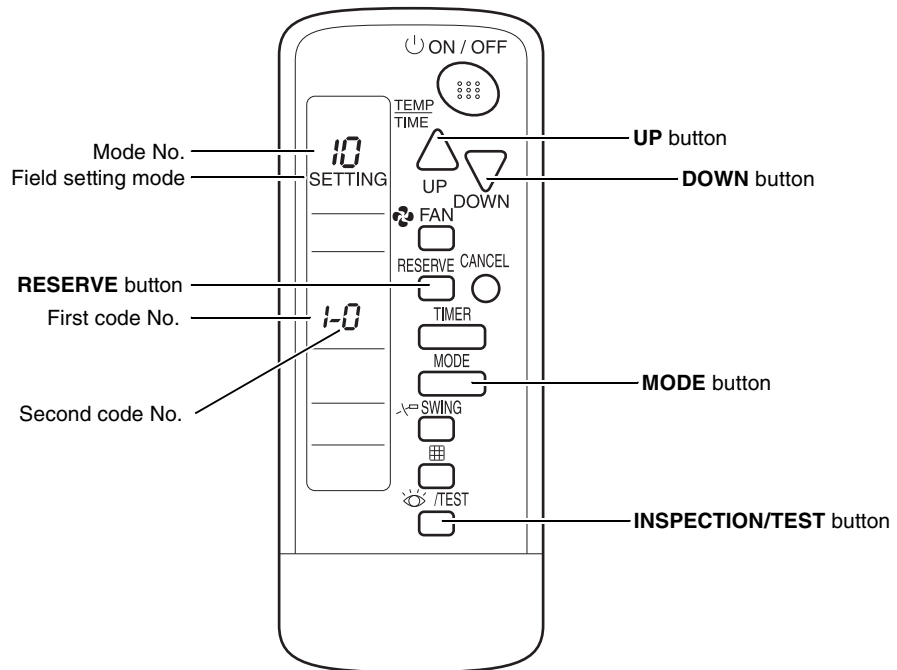
- Installation of optional accessories on the indoor unit may require changes to field settings. See the manual of the optional accessory.
- For field setting details related to the indoor unit, see installation manual shipped with the indoor unit.

1.2 Simplified Remote Controller



1. Remove the upper part of remote controller.
2. When in the normal mode, press the **BS6** button (2) (field setting) to enter the field setting mode.
3. Select the desired Mode No. with the **BS2** button (3) (temperature setting ▲) and the **BS3** button (3) (temperature setting ▼).
4. During group control, when setting by each indoor unit (mode No. 20, 22, and 23 have been selected), press the **BS8** (4) button (unit No.) and select the indoor unit No. to be set. (This operation is unnecessary when setting by group.)
5. Press the **BS9** button (5) (set A) and select first code No.
6. Press the **BS10** button (6) (set B) and select second code No.
7. Press the **BS7** button (7) (set/cancel) once and the present settings are confirmed.
8. Press the **BS6** button (8) (field setting) to return to the normal mode.

1.3 Wireless Remote Controller



To set the field settings, you have to change:

- Mode No.
- First code No.
- Second code No.

To change the field settings, proceed as follows:

1. Press the **INSPECTION/TEST** button for 4 seconds during normal mode to enter the field setting mode.
2. Press the **MODE** button to select the desired mode No.
3. Press the **UP** button to select the first code No.
4. Press the **DOWN** button to select the second code No.
5. Press the **RESERVE** button to confirm the setting.
6. Press the **INSPECTION/TEST** button to return to the normal mode.

1.4 List of Field Settings for Indoor Unit

★: Factory setting

| Mode No. (*2) | First Code No. | Description | | Second Code No. | | | | Reference Page | | |
|---------------|---|--|---------------------------|---|---|-------------------------------|---|----------------|---|-----|
| | | | | 01 | 02 | 03 | 04 | | | |
| 10 (20) | 0 | Filter cleaning sign interval | Ultra long life filter | <u>Light</u> ★ | <u>Approx. 10,000 hrs.</u> ★ | Heavy | Approx. 5,000 hrs. | — | — | 219 |
| | | | Long life filter | | <u>Approx. 2,500 hrs.</u> ★ | | Approx. 1,250 hrs. | | | |
| | | | Standard filter | | <u>Approx. 200 hrs.</u> ★ | | Approx. 100 hrs. | | | |
| | 0 | Filter sign setting | | <u>Light</u> ★ | Heavy | — | — | 219 | | |
| | 1 | Filter type | | <u>Long life filter</u> ★ | Ultra long life filter | — | — | 219 | | |
| | 1 | Filter cleaning sign interval | | <u>Short interval</u> ★ | Long interval | — | — | 219 | | |
| | 2 | Remote controller thermistor | | Refer to the page on the right for details. | | | | 219 | | |
| | 3 | Filter cleaning sign | | <u>Displayed</u> ★ | Not displayed | — | — | 221 | | |
| 6 | Remote controller thermistor control during group control | | <u>Not permitted</u> ★ | Permitted | — | — | 220 | | | |
| 7 | Time for absence area detection | | <u>30 minutes</u> ★ | 60 minutes | — | — | 221 | | | |
| 11 (21) | 1 | Auxiliary electric heater ON temperature: Ton | | Refer to the page on the right for details. | | | | 222 | | |
| | 1 | Auxiliary electric heater ON/OFF temperature: Ton/Toff | | | | | | | | |
| | 2 | Auxiliary electric heater OFF temperature: Toff | | | | | | | | |
| | 3 | Setting of airflow rate when heating | | <u>Standard</u> ★ | Slightly increased | Increased | — | 222 | | |
| | 3 | Electric heater setting | | Refer to the page on the right for details. | | | | 223 | | |
| | 5 | Electric heater capacity setting | | Refer to the page on the right for details. | | | | 223 | | |
| | 6 | Detection rate setting | | High sensitivity | Low sensitivity | <u>Standard sensitivity</u> ★ | Infrared presence sensor disabled | 223 | | |
| | 7 | Automatic airflow adjustment | | <u>OFF</u> ★ | Completion of airflow adjustment | Start of airflow adjustment | — | 223 | | |
| | 8 | Compensating the temperature around people | | Suction air temperature only | Priority given on the suction air temperature | <u>Standard</u> ★ | Priority given on the floor temperature | 224 | | |
| | 9 | Compensating the floor temperature when heating | | −4°C (−7.2°F) | −2°C (−3.6°F) | <u>0°C (0°F)</u> ★ | 2°C (3.6°F) | 225 | | |
| 12 | Dry mode set temperature | | <u>Room temperature</u> ★ | Same as cooling mode set temperature | — | — | 225 | | | |
| 12 (22) | 0 | Optional accessories output selection | | Refer to the page on the right for details. | | | | 225 | | |
| | 1 | External ON/OFF input | | Refer to the page on the right for details. | | | | 226 | | |
| | 2 | Thermostat differential changeover | | 1°C (1.8°F) | 0.5°C (0.9°F) | — | — | 226 | | |
| | 3 | Airflow setting when heating thermostat is OFF | | <u>LL tap</u> ★ | Set fan speed | OFF | — | 226 | | |
| | 4 | Automatic mode differential | | Refer to the page on the right for details. | | | | 227 | | |
| | 5 | Auto restart after power failure | | OFF | <u>ON</u> ★ | — | — | 227 | | |
| | 6 | Airflow setting when cooling thermostat is OFF | | LL tap | <u>Set fan speed</u> ★ | OFF | — | 227 | | |

| Mode No. (*2) | First Code No. | Description | Second Code No. | | | | Reference Page |
|---------------|----------------|--|---|--|----------------------------|----------------------------|----------------|
| | | | 01 | 02 | 03 | 04 | |
| 13 (23) | 0 | Ceiling height setting, Setting of normal airflow | Standard★ | High ceiling (1) | High ceiling (2) | — | 228 |
| | 1 | Airflow direction setting | 4-direction airflow★ | 3-direction airflow | 2-direction airflow | — | 228 |
| | 2 | Swing pattern settings | All direction synchronized swing | — | Facing swing★ | — | 229 |
| | 4 | Airflow direction adjustment range | Draft prevention | Standard★ | Ceiling Soiling prevention | — | 229 |
| | 6 | External static pressure settings | Refer to the page on the right for details. | | | | 229 |
| 14 (24) | 4 | Optional kit setting (UV lamp + humidifier + economizer) | Refer to the page on the right for details. | | | | 230 |
| | 5 | Dry mode set temperature | Room temperature★ | Same as cooling mode set temperature | — | — | 230 |
| 15 (25) | 0 | Drain pump operation settings | — | ON★ | OFF | — | 230 |
| | 1 | Humidification when heating thermostat is OFF | Not equipped★ | Equipped | — | — | 230 |
| | 2 | Direct duct connection | Not equipped★ | Equipped | — | — | 231 |
| | 3 | Drain pump and humidifier interlock selection | Not interlocked★ | Interlocked | — | — | 231 |
| | 5 | Individual ventilation setting | Normal★ | Individual | — | — | 231 |
| 1b | 4 | Display of error codes on the remote controller | — | Two-digit display | — | Four-digit display★ | 231 |
| 1c | 0 | Room temperature display | Not displayed | Displayed★ | — | — | 231 |
| | 1 | Thermistor sensor for auto changeover and setback control by the remote controller | Utilize the return air thermistor | Utilize the remote controller thermistor★ | — | — | 232 |
| | 3 | Access permission level setting | Level 2★ | Level 3 | — | — | 232 |
| 1e | 2 | Setback availability | N/A★ | Heat only | Cool only | Cool/heat | 232 |
| | 14 | Setting restricted/permitted of airflow block | Refer to the page on the right for details. | | | | 233 |



Note(s)

- Settings are made simultaneously for the entire group, however, if you select the mode No. inside parentheses, you can also set by each individual unit. Setting changes however cannot be checked except in the individual mode for those in parentheses.
- *2. The mode numbers inside parentheses cannot be used by wireless remote controllers, so they cannot be set individually. Setting changes also cannot be checked.
- Do not make settings other than those described above. Nothing is displayed for functions the indoor unit is not equipped with.
- 88** or **Checking the connection. Please stand by.** may be displayed to indicate the remote controller is resetting when returning to the normal mode.

Applicable Range of Field Settings

| Mode No. | First Code No. | Description of Setting | FCQ-TA | FCQ-AA | FHQ-P FHQ-M | FAQ-TA | FBQ-P | FBQ-TB | FTQ-TA FTQ-TB |
|------------|--------------------------|--|--------|--------|----------------|--------|-------|--------|------------------|
| 10 (20) | 0 | Filter cleaning sign interval | ● | ● | ● | ● | ● | ● | — |
| | 0 | Filter sign setting | — | — | — | — | — | — | ● |
| | 1 | Filter type | ● | ● | — | — | — | ● | — |
| | 1 | Filter cleaning sign interval | — | — | — | — | — | — | ● |
| | 2 | Remote controller thermistor | ● | ● | ● | ● | ● | ● | ● |
| | 3 | Filter sign display | ● | ● | ● | ● | ● | ● | ● |
| | 6 | Remote controller thermistor control during group control | ● | ● | ● | ● | ● | ● | ● |
| | 7 | Time for absence area detection | ● | ● | — | — | — | — | — |
| 11 (21) | 1 | Auxiliary electric heater ON temperature | — | ● | — | — | — | ● | ● |
| | 1 | Auxiliary electric heater ON/OFF temperature | ● | — | — | — | — | — | — |
| | 2 | Auxiliary electric heater OFF temperature | — | ● | — | — | — | ● | ● |
| | 3 | Setting of airflow rate when heating | ● | ● | — | — | — | — | — |
| | 3 | Electric heater setting | — | — | — | — | — | — | ● |
| | 5 | Electric heater capacity setting | — | — | — | — | — | — | ● |
| | 6 | Detection rate setting | ● | ● | — | — | — | — | — |
| | 7 | Automatic airflow adjustment | — | — | — | — | ● | ● | — |
| | 8 | Compensating the temperature around people | ● | ● | — | — | — | — | — |
| | 9 | Compensating the floor temperature when heating | ● | ● | — | — | — | — | — |
| 12 | Dry mode set temperature | — | ● | — | — | — | ● | — | |
| 12 (22) | 0 | Optional accessories output selection | ● | ● | ● | ● | ● | ● | ● |
| | 1 | External ON/OFF input | ● | ● | ● | ● | ● | ● | ● |
| | 2 | Thermostat differential changeover | ● | ● | ● | ● | ● | ● | ● |
| | 3 | Airflow setting when heating thermostat is OFF | ● | ● | ● | ● | ● | ● | ● |
| | 4 | Automatic mode differential | ● | ● | ● | ● | ● | ● | ● |
| | 5 | Auto restart after power failure reset | ● | ● | ● | ● | ● | ● | ● |
| | 6 | Airflow setting when cooling thermostat is OFF | ● | ● | ● | ● | ● | ● | ● |
| 13 (23) | 0 | Ceiling height setting, Setting of normal airflow | ● | ● | ● | ● | — | — | — |
| | 1 | Airflow direction setting | ● | ● | — | — | — | — | — |
| | 2 | Swing pattern settings | ● | ● | — | — | — | — | — |
| | 4 | Airflow direction adjustment range | ● | ● | — | ● | — | — | — |
| | 6 | External static pressure settings | — | — | — | — | ● | ● | — |
| 14 (24) | 4 | Optional kit setting (UV lamp + humidifier + economizer) | — | — | — | — | — | — | ● |
| | 5 | Dry mode set temperature | — | — | — | — | — | — | ● |
| 15 (25) | 0 | Drain pump operation settings | — | — | — | — | ● | — | — |
| | 1 | Humidification when heating thermostat is OFF | ● | ● | ● | ● | ● | ● | ● |
| | 2 | Direct duct connection | ● | ● | — | ● | — | — | — |
| | 3 | Drain pump and humidifier interlock selection | ● | ● | ● | ● | ● | ● | — |
| | 5 | Individual ventilation setting | ● | ● | ● | ● | ● | ● | ● |
| 1b | 4 | Display of error codes on the remote controller | ● | ● | ● | ● | ● | ● | ● |
| 1c | 0 | Room temperature display | ● | ● | ● | ● | ● | ● | ● |
| | 1 | Thermistor sensor for auto changeover and setback control by the remote controller | ● | ● | ● | ● | ● | ● | ● |
| | 3 | Access permission level setting | ● | ● | ● | ● | ● | ● | ● |
| 1e | 2 | Setback availability | ● | ● | ● | ● | ● | ● | ● |
| | 14 | Setting restricted/permitted of airflow block | ● | ● | — | — | — | — | — |

●: Available
—: Not available

1.5 Details of Field Settings for Indoor Unit

1.5.1 Filter Cleaning Sign Interval, Filter Type

When the setting 10 (20)-3 is set to **01** (Displayed), filter cleaning sign is displayed on the remote controller after a certain period of operation time. This setting is used to change the display interval of filter cleaning sign when the filter contamination is heavy.

The filter cleaning sign interval is determined as follows depending on the combination of Mode No. 10 (20)-0 and 10 (20)-1.

★: Factory setting

| Setting | 10 (20)-1 | 01: Long life filter★ | | 02: Ultra long life filter | |
|---------|--|------------------------------|------------|----------------------------|------------|
| | Filter contamination heavy/light 10 (20)-0 | Light 01★ | Heavy 02 | Light 01 | Heavy 02 |
| Model | FCQ-TA | 2,500 hrs.★ | 1,250 hrs. | 10,000 hrs. | 5,000 hrs. |
| | FCQ-AA | | | | |
| | FHQ-P | | | | |
| | FHQ-M | | | | |
| | FBQ-P | | | | |
| | FBQ-TB | | | | |
| | FAQ-TA | 200 hrs.★ | 100 hrs. | 200 hrs. | 100 hrs. |

| Setting | 10 (20)-1 | 01: Short interval★ | | 02: Long interval | |
|---------|--|----------------------------|------------|-------------------|------------|
| | Filter contamination heavy/light 10 (20)-0 | Light 01★ | Heavy 02 | Light 01 | Heavy 02 |
| Model | FTQ-TA | 2,500 hrs.★ | 1,250 hrs. | 10,000 hrs. | 5,000 hrs. |
| | FTQ-TB | | | | |

1.5.2 Remote Controller Thermistor

Select a thermistor to control the room temperature.

When the unit is not equipped with an infrared floor sensor:

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|---|
| 10 (20) | 2 | 01★ | Remote controller thermistor and suction air thermistor for indoor unit★ |
| | | 02 | Suction air thermistor for indoor unit |
| | | 03 | Remote controller thermistor |

The factory setting for the Second Code No. is **01** and room temperature is controlled by the suction air thermistor for indoor unit and remote controller thermistor. When the Second Code No. is set to **02**, room temperature is controlled by the suction air thermistor. When the Second Code No. is set to **03**, room temperature is controlled by the remote controller thermistor.



Note(s)

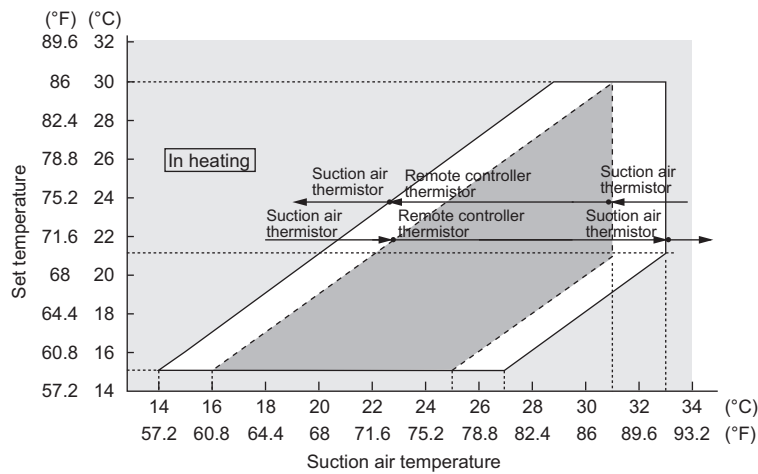
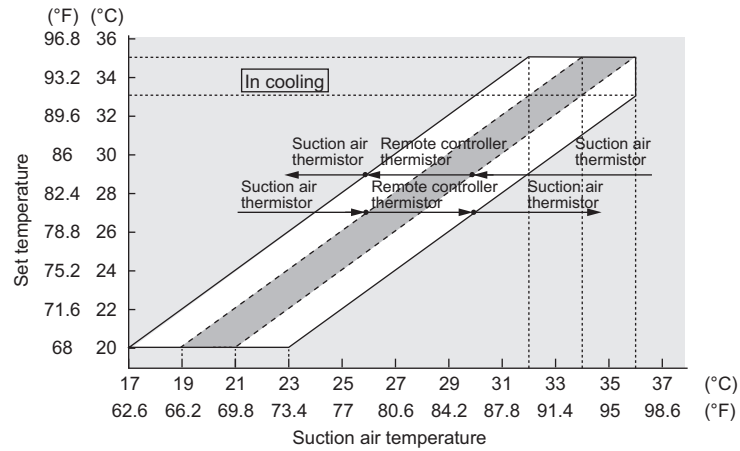
For FCQ-AA and FBQ-TB, the factory setting for the Second Code No. is **02**.

■ **FTQ-TA, FTQ-TB**

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|--------------------------------------|
| 10 (20) | 2 | 01 | — |
| | | 02 | Remote sensor thermistor |
| | | 03★ | Remote controller thermistor★ |

When the Second Code No. is set to **02**, room temperature is controlled by the remote sensor thermistor. When the Second Code No. is set to **03**, room temperature is controlled by the remote controller thermistor.



When the unit is equipped with an infrared floor sensor:

★: Factory setting

| Mode No. | First Code No. | Second Code No. | | | | | |
|----------|----------------|-----------------|----|----|------------|----|------------|
| | | 10 (20) | 2 | 01 | 02 | 02 | 02★ |
| 11 (21) | 8 | 01 | 01 | 02 | 03★ | 04 | 01 |

| | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|
| The thermistor to be used | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| Remote controller thermistor | ● | — | — | — | — | — | ● |
| Suction air thermistor | ● | ● | ● | ● | ● | ● | — |
| Infrared floor sensor | — | — | ● | ● | ● | ● | — |

| | | |
|---|---|---|
| The infrared floor sensor is not used | Priority given to the suction air temperature (*) | Priority given to the floor temperature (*) |
| Only the suction air thermistor is used | Standard setting (Factory setting) | Only the remote controller thermistor is used |

*Refer to **Compensating the Temperature around People** on page 224.

i Note(s)

The control is automatically switched to the one performed only by the suction air thermistor for indoor unit when the Second code No. is **01** during group control.
 To use the **remote controller thermistor during the group control**, select the Second code No. **02** in First code No. **6**.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|--|
| 10 (20) | 6 | 01★ | Remote controller thermistor control is not permitted during group control★ |
| | | 02 | Remote controller thermistor control is permitted during group control |

**Note(s)**

When the 10 (20)-6 setting is changed to **02**, several indoor units are controlled by one remote controller thermistor, so note that the room temperature might be uneven.

1.5.3 Filter Cleaning Sign

Whether or not to display the sign after operation of a certain duration can be selected.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|-------------------|
| 10 (20) | 3 | 01★ | Displayed★ |
| | | 02 | Not displayed |

* Filter cleaning sign is not displayed when a self-cleaning decoration panel is mounted.

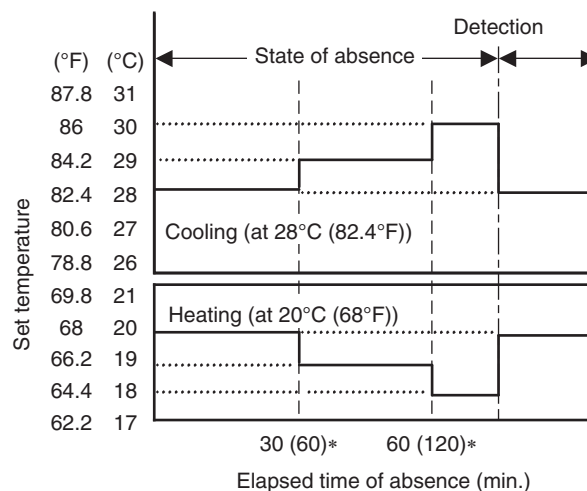
1.5.4 Time for Absence Area Detection

(For units with an infrared presence sensor)

By selecting the energy-saving operation mode in the absence, the target temperature is shifted to the energy-saving end by 1°C (1.8°F) (maximum 2°C (3.6°F)) after the state of absence continues for a certain period of time. Absent time defined for detection can be selected as follows:

★: Factory setting

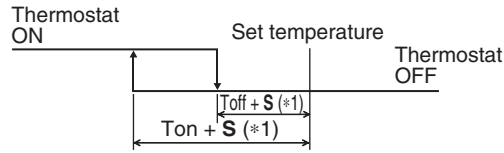
| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|--------------------|
| 10 (20) | 7 | 01★ | 30 minutes★ |
| | | 02 | 60 minutes |



* The values in parentheses represent the time when Second code No. is **02**.

- The set temperature displayed on the remote controller remains the same even if the target temperature is shifted.
- As soon as people are detected while the temperature is shifted, this control will be cancelled (reset).

1.5.5 Auxiliary Electric Heater ON/OFF Temperature



Note(s) *1. S value varies automatically based on the room temperature trend.

■ FCQ-TA

★: Factory setting

| Mode No. | First Code No. | Symbol | Second Code No. | | | | | |
|----------|----------------|--------|----------------------------------|--------------------|------------------|--------------------|------------------|--------------------|
| | | | 01★ | 02 | 03 | 04 | 05 | 06 |
| 11 (21) | 1 | Ton | <u>-4°C</u> <u>(-7.2°F)</u> ★ | -3.5°C (-6.3°F) | -3°C (-5.4°F) | -2.5°C (-4.5°F) | -2°C (-3.6°F) | -1.5°C (-2.7°F) |
| | | Toff | <u>-2°C</u> <u>(-3.6°F)</u> ★ | -1.5°C (-2.7°F) | -1°C (-1.8°F) | -0.5°C (-0.9°F) | 0°C (0°F) | 0.5°C (0.9°F) |

■ FCQ-AA, FBQ-TB, FTQ-TA, FTQ-TB

★: Factory setting

| Mode No. | First Code No. | Symbol | Second Code No. | | | | | |
|----------|----------------|--------|----------------------------------|--------------------|------------------|--------------------|------------------|--------------------|
| | | | 01★ | 02 | 03 | 04 | 05 | 06 |
| 11 (21) | 1 | Ton | <u>-4°C</u> <u>(-7.2°F)</u> ★ | -3.5°C (-6.3°F) | -3°C (-5.4°F) | -2.5°C (-4.5°F) | -2°C (-3.6°F) | -1.5°C (-2.7°F) |
| | 2 | Toff | <u>-2°C</u> <u>(-3.6°F)</u> ★ | -1.5°C (-2.7°F) | -1°C (-1.8°F) | -0.5°C (-0.9°F) | 0°C (0°F) | 0.5°C (0.9°F) |

There is a limitation of combination between Ton and Toff as below due to 2°C (3.6°F) hysteresis required for reliability.

| Second Code No. | | | Ton | | | | | |
|-----------------|----|-----------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|
| | | | 01 | 02 | 03 | 04 | 05 | 06 |
| | | | -4°C (-7.2°F) | -3.5°C (-6.3°F) | -3°C (-5.4°F) | -2.5°C (-4.5°F) | -2°C (-3.6°F) | -1.5°C (-2.7°F) |
| Toff | 06 | 0.5°C (0.9°F) | ● | ● | ● | ● | ● | ● |
| | 05 | 0°C (0°F) | ● | ● | ● | ● | ● | — |
| | 04 | -0.5°C (-0.9°F) | ● | ● | ● | ● | — | — |
| | 03 | -1°C (-1.8°F) | ● | ● | ● | — | — | — |
| | 02 | -1.5°C (-2.7°F) | ● | ● | — | — | — | — |
| | 01 | -2°C (-3.6°F) | ● | — | — | — | — | — |

●: Available

—: Not available

1.5.6 Setting of Airflow Rate when Heating

The fan revolution is changed to maintain the sufficient distance for warm air to reach during the heating operation. The setting should be changed depending on the installation condition of the unit.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|--------------------|
| 11 (21) | 3 | 01★ | <u>Standard</u> ★ |
| | | 02 | Slightly increased |
| | | 03 | Increased |

Note that this setting is effective only during the heating operation.

1.5.7 Electric Heater Setting

■ FTQ-TA, FTQ-TB

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents | |
|----------|----------------|-----------------|--|--|
| | | | Heater operation | Electric heater run for defrost/oil return operation |
| 11 (21) | 3 | 01★ | Electric heater with heat pump not allowed★ | Not allowed★ |
| | | 02 | Electric heater with heat pump allowed | Not allowed |
| | | 07 | Electric heater with heat pump not allowed | Allowed |
| | | 08 | Electric heater with heat pump allowed | Allowed |

1.5.8 Electric Heater Capacity Setting

■ FTQ-TA, FTQ-TB

★: Factory setting

| Model | Mode No. | First Code No. | Second Code No. | | | | | | | |
|------------------|----------|----------------|-----------------------|----|----|----|----|----|----|----|
| | | | 01★ | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| | | | Heater (kW) | | | | | | | |
| | | | No heater kit★ | 3 | 5 | 6 | 8 | 10 | 15 | 19 |
| FTQ18TA, FTQ18TB | 11 (21) | 5 | ●★ | ● | ● | ● | ● | ● | — | — |
| FTQ24TA, FTQ24TB | | | ●★ | ● | ● | ● | ● | ● | — | — |
| FTQ30TA, FTQ30TB | | | ●★ | ● | ● | ● | ● | ● | — | — |
| FTQ36TA, FTQ36TB | | | ●★ | ● | ● | ● | ● | ● | — | — |
| FTQ42TA, FTQ42TB | | | ●★ | — | ● | ● | ● | ● | ● | ● |
| FTQ48TA, FTQ48TB | | | ●★ | — | ● | ● | ● | ● | ● | ● |

●: Available

—: Not available

1.5.9 Detection Rate Setting

(For units with an infrared presence sensor)

Set the sensitivity of the infrared presence sensor.

- The infrared presence sensor can be disabled by selecting the Second code No. **04**.



Note(s)

When the infrared presence sensor is disabled, the remote controller menu does not display some functions such as the automatic draft reduction, energy-saving operation in absence and halt in absence.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|-----------------------------------|
| 11 (21) | 6 | 01 | High sensitivity |
| | | 02 | Low sensitivity |
| | | 03★ | Standard sensitivity★ |
| | | 04 | Infrared presence sensor disabled |

1.5.10 Automatic Airflow Adjustment

Make external static pressure setting automatically using automatic airflow adjustment (11 (21)-7), or manually using external static pressure settings (13 (23)-6).

The volume of blow-off air is automatically adjusted to the rated quantity.

Make settings before performing the test operation of the outdoor unit.

Setting procedure

1. Make sure that electric wiring and duct construction have been completed. In particular, if the closing damper is installed on the way of the duct, make sure that it is open. In addition, make sure that a field-supplied air filter is installed within the air passageway on the suction port side.
2. If there are multiple blow-off and suction ports, adjust the throttle part so that the airflow volume ratio of each suction/blow-off port conforms to the designed airflow volume ratio. In that case, operate the unit with fan operation mode. When you want to change the airflow rate, adjust it by pressing the airflow rate control button to select High, Middle or Low.
3. Make settings to adjust the airflow rate automatically. After setting to fan operation mode, enter the field setting mode while operation is stopped and then select the Mode No. 11 (21), set the First Code No. to **7** and the Second Code No. to **03**.
4. After setting, return to the basic screen (to the normal mode in the case of a wireless remote controller) and press the ON/OFF button. Fan operation for automatic airflow adjustment will start with the operation lamp turned ON. Do not adjust the throttle part of the suction and blow-off ports during automatic adjustment. After operation for approximately one to fifteen minutes, airflow adjustment automatically stops with the operation lamp turned OFF.
5. After operation stopped, make sure that the Second Code No. is set to **02** as in the following table by indoor unit with the Mode No. 11 (21). If operation does not stop automatically or the Second Code No. is not set to **02**, return to the step 3 above to make settings again.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|----------------------------------|
| 11 (21) | 7 | 01★ | OFF★ |
| | | 02 | Completion of airflow adjustment |
| | | 03 | Start of airflow adjustment |

**Note(s)**

1. Make sure that the external static pressure is within the range of specifications before making settings. If it is outside the range, automatic adjustment fails, which may cause an insufficient airflow volume or leakage of water.
2. If the air passageway including duct or blow-off ports is changed after automatic adjustment, make sure to perform automatic airflow adjustment again.

1.5.11 Compensating the Temperature around People**(For units with an infrared floor sensor)**

Change the ratio between the suction air temperature and floor temperature used to calculate the temperature around human.

The temperature around human is calculated using the values of the suction air thermistor and the infrared floor sensor. The factory setting is Normal (the average value of the suction air temperature and the floor temperature is applied). However, the rate at which the suction air thermistor and the infrared floor sensor affect the temperature around human can be changed with this setting.

- To reflect the effect of the temperature around the ceiling, select **02** for the second code.
- To reflect the effect of the temperature around the floor, select **04** for the second code.
- The infrared floor sensor can be disabled by selecting **01** for the second code.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|---|
| 11 (21) | 8 | 01 | Suction air temperature only |
| | | 02 | Priority given on the suction air temperature |
| | | 03★ | Standard★ |
| | | 04 | Priority given on the floor temperature |

1.5.12 Compensating the Floor Temperature when Heating

(For units with an infrared floor sensor)

Offset the detected value of the infrared floor sensor with a certain temperature. This setting should be used to have the actual floor temperature detected when, for example, the unit is installed close to a wall.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|--------------------|
| 11 (21) | 9 | 01 | -4°C (-7.2°F) |
| | | 02 | -2°C (-3.6°F) |
| | | 03★ | 0°C (0°F) ★ |
| | | 04 | +2°C (+3.6°F) |

Actual procedure to use the setting

Although the standard setting is normally used with no problem, the setting should be changed in the following cases:

| Environment | Operation Mode | Problem | Setting Value |
|--|----------------|----------------------|---------------------------------|
| <ul style="list-style-type: none"> - The unit is installed close to a wall or a window. - High thermal capacity of the floor (such as concrete, etc.) - There are many heat sources including PC. - There is a non-negligible heat source such as floor heating. | Heating | Excessive heating | +2°C (+3.6°F) |
| | | Insufficient heating | -2°C or -4°C (-3.6°F or -7.2°F) |

1.5.13 Dry Mode Set Temperature (for FCQ-AA, FBQ-TB Models)

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|--------------------------------------|
| 11 (21) | 12 | 01★ | Room temperature★ |
| | | 02 | Same as cooling mode set temperature |

1.5.14 Optional Accessories Output Selection

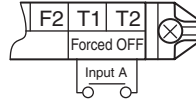
Using this setting, **operation output signal** and **abnormal output signal** can be provided. Output signal is output between terminals X1 and X2 of adaptor for wiring, an optional accessory.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|--|
| 12 (22) | 0 | 01★ | Indoor unit thermostat ON/OFF signal is provided.★ |
| | | 02 | — |
| | | 03 | Output linked with ON/OFF of remote controller is provided. |
| | | 04 | In case of Error Display appears on the remote controller, output is provided. |
| | | 05 | — |
| | | 06 | — |
| | | 07 | Only for FBQ-TB Economizer (field supply) ON/OFF signal is provided. |

1.5.15 External ON/OFF Input

This input is used for ON/OFF operation and protection device input from the outside. The input is performed from the T1-T2 terminal of the operation terminal block in the electrical component box.



★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|--|
| 12 (22) | 1 | 01★ | ON: Forced OFF (prohibition of using the remote controller) OFF: Permission of using the remote controller★ |
| | | 02 | OFF → ON: Operation ON → OFF: Stop |
| | | 03 | ON: Operation OFF: The system stops, then the applicable unit indicates A0 . The other indoor units indicate U9 . |
| | | 04 | — |
| | | 05 | — |
| | | 06 | — |
| | | 07 | Only for FBQ-TB ON: Economizer (field supply) is connected. OFF: Not connected |

1.5.16 Thermostat Differential Changeover

Differential value during thermostat ON/OFF control can be changed.

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|---------------|
| 12 (22) | 2 | 01 | 1.0°C (1.8°F) |
| | | 02 | 0.5°C (0.9°F) |

Factory Setting

| Model | Second Code No. | Contents |
|--------------------------------------|-----------------|---------------|
| FCQ-TA, FHQ-P, FHQ-M, FTQ-TA, FTQ-TB | 01 | 1.0°C (1.8°F) |
| FCQ-AA, FAQ-TA, FBQ-P, FBQ-TB | 02 | 0.5°C (0.9°F) |

1.5.17 Airflow Setting when Heating Thermostat is OFF

This setting is used to set airflow when heating thermostat is OFF.

If the airflow setting when thermostat is OFF is set to 03: OFF, the air in the indoor unit will be stagnant and suction air thermistor may not detect room temperature correctly, resulting in problems that thermostat will not be ON easily.

Use optional remote sensor in such conditions, or set the field setting 10 (20)-2 to **03** (only remote controller thermistor).

* When thermostat OFF airflow volume up mode is used, careful consideration is required before deciding installation location.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|----------------|
| 12 (22) | 3 | 01★ | LL tap★ |
| | | 02 | Set fan speed |
| | | 03 | OFF |

1.5.18 Automatic Mode Differential

This setting makes it possible to change differential values for mode selection while in automatic operation mode, only when the wireless remote controller or any central remote controller is connected.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | | | | | | | |
|----------|----------------|------------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| | | <u>01</u> ★ | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| 12 (22) | 4 | <u>0°C</u> <u>(0°F)</u> ★ | 1°C (1.8°F) | 2°C (3.6°F) | 3°C (5.4°F) | 4°C (7.2°F) | 5°C (9.0°F) | 6°C (10.8°F) | 7°C (12.6°F) |

The automatic operation mode setting is made by the use of the operation mode selector button.

1.5.19 Auto Restart after Power Failure

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|-------------|
| 12 (22) | 5 | 01 | OFF |
| | | <u>02</u> ★ | <u>ON</u> ★ |

When the Auto Restart after Power Failure setting is turned OFF, all the units will remain OFF after power failure, or after the main power supply is restored. When this setting is turned ON (factory setting), the units that were operating before the power failure will automatically restart operation after power failure, or after the main power supply is restored.

Due to the aforementioned, when the Auto Restart after Power Failure setting is ON, be careful for the following situations that may occur.



Caution

1. The air conditioner will start operation suddenly after power failure, or when the main power supply is restored. The user might be surprised and wonder why the air conditioner turned ON suddenly.
2. During maintenance, if the main power supply is turned OFF while the units are in operation, the units will automatically start operation (the fan will rotate) after the power supply is restored due to completion of the maintenance work.

1.5.20 Airflow Setting when Cooling Thermostat is OFF

This is used to set airflow to LL airflow when cooling thermostat is OFF.

If the airflow setting when thermostat is OFF is set to 03: OFF, the air in the indoor unit will be stagnant and suction air thermistor may not detect room temperature correctly, resulting in problems that thermostat will not be ON easily.

Use optional remote sensor in such conditions, or set the field setting 10 (20)-2 to **03** (only remote controller thermistor).

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|------------------------|
| 12 (22) | 6 | 01 | LL tap |
| | | <u>02</u> ★ | <u>Set fan speed</u> ★ |
| | | 03 | OFF |

1.5.21 Ceiling Height Setting, Setting of Normal Airflow

Make the following setting according to the ceiling height. The second code No. is set to **01** at the factory.

■ FCQ18/24TA, FCQ18/24AA

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Setting | Ceiling Height | | | |
|------------|----------------|-----------------|------------------|-------------------------------------|--------------------------------------|----------------------------------|--------------------------------------|
| | | | | All round outlet | 4-way outlets | 3-way outlets | 2-way outlets |
| 13 (23) | 0 | 01★ | Standard★ | Lower than 2.7 m (8-3/4 ft)★ | Lower than 3.1 m (10-1/8 ft)★ | Lower than 3.0 m (10 ft)★ | Lower than 3.5 m (11-1/2 ft)★ |
| | | 02 | High Ceiling (1) | Lower than 3.0 m (10 ft) | Lower than 3.4 m (11-1/8 ft) | Lower than 3.3 m (10-3/4 ft) | Lower than 3.8 m (12-1/2 ft) |
| | | 03 | High Ceiling (2) | Lower than 3.5 m (11-1/2 ft) | Lower than 4.0 m (13-1/8 ft) | Lower than 3.5 m (11-1/2 ft) | — |



Note(s)

- The Second Code No. is factory set to Standard/All round outlet. For High ceiling (1) or (2), initial setting by remote controller is required.
- A closing member kit (optional) is required for 4-, 3-, or 2-direction airflow.

■ FCQ30-48TA, FCQ30-48AA

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Setting | Ceiling Height | | | |
|------------|----------------|-----------------|------------------|--------------------------------------|--------------------------------------|----------------------------------|--------------------------------------|
| | | | | All round outlet | 4-way outlets | 3-way outlets | 2-way outlets |
| 13 (23) | 0 | 01★ | Standard★ | Lower than 3.2 m (10-1/2 ft)★ | Lower than 3.4 m (11-1/8 ft)★ | Lower than 3.6 m (12 ft)★ | Lower than 4.2 m (13-3/4 ft)★ |
| | | 02 | High Ceiling (1) | Lower than 3.6 m (12 ft) | Lower than 3.9 m (12-3/4 ft) | Lower than 4.0 m (13-1/8 ft) | Lower than 4.2 m (13-3/4 ft) |
| | | 03 | High Ceiling (2) | Lower than 4.2 m (13-3/4 ft) | Lower than 4.5 m (14-3/4 ft) | Lower than 4.2 m (13-3/4 ft) | — |



Note(s)

- The Second Code No. is factory set to Standard/All round outlet. For High ceiling (1) or (2), initial setting by remote controller is required.
- A closing member kit (optional) is required for 4-, 3-, or 2-direction airflow.

■ FAQ-TA

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|-------------------|
| 13 (23) | 0 | 01★ | Standard★ |
| | | 02 | A little increase |
| | | 03 | Increase |

1.5.22 Airflow Direction Setting

Set the airflow direction of indoor units as given in the table below. (Set when sealing material kit of air discharge outlet has been installed.) The second code No. is factory set to **01**.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Ceiling height |
|----------|----------------|-----------------|-----------------------------|
| 13 (23) | 1 | 01★ | 4-direction airflow★ |
| | | 02 | 3-direction airflow |
| | | 03 | 2-direction airflow |

1.5.23 Swing Pattern Settings

(For units with an infrared floor sensor)

Set the flap operation in swing mode.

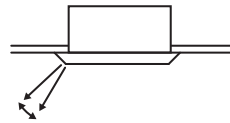
With the factory swing, flaps facing each other are synchronized to operate, and flaps placed side by side are set to swing in an opposite direction to agitate airflow to reduce temperature irregularity. Conventional swing operation (all direction synchronized swing) can be set onsite.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|----------------------------------|
| 13 (23) | 2 | 01 | All direction synchronized swing |
| | | 02 | — |
| | | 03★ | Facing swing★ |

1.5.24 Airflow Direction Adjustment Range

Make the following airflow direction setting according to the respective purpose.



■ FCQ-TA, FCQ-AA, FAQ-TA

★: Factory setting

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



Note(s)

When the model FCQ-TA or FCQ-AA is attached with a closing member kit, set the Second Code No. to **02** or **03**.

1.5.25 External Static Pressure Settings

Make external static pressure setting automatically using automatic airflow adjustment, or manually using external static pressure settings.

■ FBQ-P, FBQ-TB

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|----------------------------|
| 13 (23) | 6 | 02 | 50 Pa (0.20 inWG) |
| | | 03 | 60 Pa (0.24 inWG) |
| | | 04 | 70 Pa (0.28 inWG) |
| | | 05 | 80 Pa (0.32 inWG) |
| | | 06 | 90 Pa (0.36 inWG) |
| | | 07★ | 100 Pa (0.40 inWG)★ |
| | | 08 | 110 Pa (0.44 inWG) |
| | | 09 | 120 Pa (0.48 inWG) |
| | | 10 | 130 Pa (0.52 inWG) |
| | | 11 | 140 Pa (0.56 inWG) |
| | | 12 | 150 Pa (0.60 inWG) |
| | | 13 | 160 Pa (0.64 inWG) |
| | | 14 | 180 Pa (0.72 inWG) |
| | | 15 | 200 Pa (0.80 inWG) |

Make sure that 11 (21)-7 (Airflow adjustment) is set to **01** (OFF).

1.5.26 Optional Kit Setting (UV lamp + Humidifier + Economizer)

■ FTQ-TA, FTQ-TB

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents | |
|----------|----------------|-----------------|--------------------------------|--|
| | | | UV lamp + humidifier fan speed | Economizer setting for Mech standby duration (minutes) |
| 14 (24) | 4 | 01 | Refer to controller | 10 |
| | | 02 | High | 10 |
| | | 03 | Refer to controller | 20 |
| | | 04 | High | 20 |
| | | 05 | Refer to controller | 30 |
| | | 06 | High | 30 |
| | | 07 | Refer to controller | 40 |
| | | 08 | High | 40 |
| | | 09 | Refer to controller | 50 |
| | | 10 | High | 50 |
| | | 11 | Refer to controller | 60 |
| | | 12 | High | 60 |
| | | 13 | Refer to controller | Free cooling only |
| | | 14★ | | High★ |

1.5.27 Dry Mode Set Temperature (for FTQ-TA, FTQ-TB Models)

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|--------------------------------------|
| 14 (24) | 5 | 01★ | Room temperature★ |
| | | 02 | Same as cooling mode set temperature |

1.5.28 Drain Pump Operation Settings

■ FBQ-P

The drain pump operation can be disabled for natural drainage by changing the following field setting.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|------------|
| 15 (25) | 0 | 01 | — |
| | | 02★ | ON★ |
| | | 03 | OFF |

1.5.29 Humidification when Heating Thermostat is OFF

Setting to **Equipped** turns ON the humidifier if suction air temperature is 20°C (68°F) or above and turns OFF the humidifier if suction air temperature is 18°C (64.4°F) or below when the heating thermostat is OFF.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|----------------------|
| 15 (25) | 1 | 01★ | Not equipped★ |
| | | 02 | Equipped |

1.5.30 Direct Duct Connection

This is used when fresh air intake kit equipped with fan is connected. If the second code is set to **02**: Equipped, energy recovery ventilator fan conducts the fan residual operation by linking to indoor unit. The indoor fan carries out residual operation for one minute after the thermostat is stopped. (For the purpose of preventing dust on the air filter from falling off.)

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|----------------------|
| 15 (25) | 2 | 01★ | Not equipped★ |
| | | 02 | Equipped |

1.5.31 Drain Pump and Humidifier Interlock Selection

This is used to interlock the humidifier with the drain pump. When water is drained out of the unit, this setting is unnecessary.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|-------------------------|
| 15 (25) | 3 | 01★ | Not interlocked★ |
| | | 02 | Interlocked |

1.5.32 Individual Ventilation Setting

This is set to perform individual operation of Energy recovery ventilator using the remote controller/central unit when Energy recovery ventilator is built in.
(Switch only when Energy recovery ventilator is built in.)

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|----------------|
| 15 (25) | 5 | 01★ | Normal★ |
| | | 02 | Individual |

1.5.33 Display of Error Codes on the Remote Controller

■ For BRC1E73 only

Error code (four digits) is displayed for limited products. Select two-digit display if four-digit display is not preferred.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|----------------------------|
| 1b | 4 | 01 | — |
| | | 02 | Two-digit display |
| | | 03 | — |
| | | 04★ | Four-digit display★ |

1.5.34 Room Temperature Display

■ For BRC1E73 only

It is possible to change whether or not the room temperature is displayed for the detailed display screen.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|--------------------|
| 1c | 0 | 01 | Not displayed. |
| | | 02★ | Displayed.★ |

1.5.35 Thermistor Sensor for Auto Changeover and Setback Control by the Remote Controller

■ For BRC1E73 only

Select a thermistor to utilize for the cool/heat mode automatic changeover and setback functions.
The sensed temperature will be displayed on the remote controller as the room temperature.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|---|
| 1c | 1 | 01 | Utilize the return air thermistor |
| | | <u>02</u> ★ | <u>Utilize the remote controller thermistor</u> ★ |

1.5.36 Access Permission Level Setting

■ For BRC1E73 only

There are 2 levels as follows:

- Level 2: The following buttons are selectable to be disable or enable.
- Level 3: No buttons are selectable and only **On/Off** button is available.

| Button | Level 2 | Level 3 |
|-----------|------------------------|------------------------|
| ▲▼◀▶ | Selectable (Enable) | Unselectable (Disable) |
| On/Off | Selectable (Enable) | Unselectable (Enable) |
| Mode | Selectable (Enable) | Unselectable (Disable) |
| Fan Speed | Selectable (Disable) | Unselectable (Disable) |
| Menu/OK | Unselectable (Disable) | Unselectable (Disable) |
| Cancel | Unselectable (Disable) | Unselectable (Disable) |

() shows the factory setting.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|------------------|
| 1c | 3 | <u>01</u> ★ | <u>Level 2</u> ★ |
| | | 02 | Level 3 |

1.5.37 Setback Availability

■ For BRC1E73 only

Select the operation mode in which the setback function is available.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|--------------|
| 1e | 2 | <u>01</u> ★ | <u>N/A</u> ★ |
| | | 02 | Heat only |
| | | 03 | Cool only |
| | | 04 | Cool/heat |

1.5.38 Setting Restricted/Permitted for Airflow Block

■ **For units with the infrared presence/floor sensor only**

The airflow block function cannot be enabled when closure material kit, fresh air intake kit, separately installed natural evaporation type humidifier, or branch air duct is equipped, due to the possibility of dew condensation.

This setting restricts the airflow block function, preventing that the airflow block is inadvertently set to ON. Ensure that **Airflow block restricted** is set when using the options listed above.

★: Factory setting

| Mode No. | First Code No. | Second Code No. | Contents |
|----------|----------------|-----------------|---------------------------------|
| 1e | 14 | 01★ | Airflow block permitted★ |
| | | 02 | — |
| | | 03 | — |
| | | 04 | — |
| | | 05 | Airflow block restricted |

1.6 Operation Control Mode

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

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

Contents of Control Modes

20 modes consisting of combinations of the following 5 operation modes with temperature and operation mode setting by remote controller can be set and displayed by operation modes 0 through 19.

- ON/OFF control impossible by remote controller
Used when you want to turn ON/OFF by centralized remote controller only.
(Cannot be turned ON/OFF by remote controller.)
- OFF control only possible by remote controller
Used when you want to turn ON by centralized remote controller only, and OFF by remote controller only.
- Centralized
Used when you want to turn ON by centralized remote controller only, and turn ON/OFF freely by remote controller during set time.
- Individual
Used when you want to turn ON/OFF by both centralized remote controller and remote controller.
- Timer operation possible by remote controller
Used when you want to turn ON/OFF by remote controller during set time and you do not want to start operation by centralized remote controller when time of system start is programmed.

2. Field Settings from Outdoor Unit

2.1 Capacity Setting

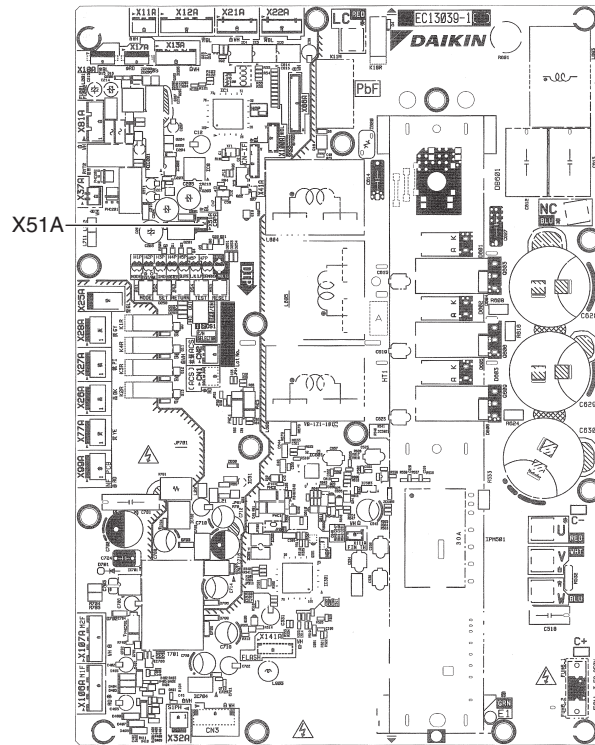


Caution

Be sure to carry out capacity setting after changing the main PCB (A1P) to spare PCB.
(for RZR18/24TBVJUB and RZQ18/24TBVJUB models only)

Attach the capacity setting adaptor corresponding to capacity class to connector X51A.

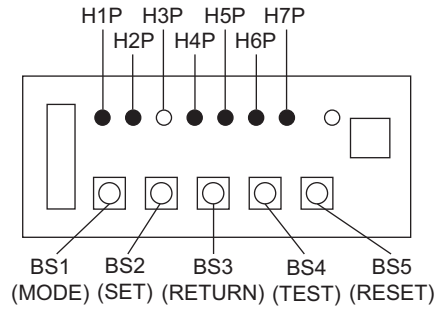
Other than RZR18/24TBVJUB and RZQ18/24TBVJUB models, no capacity setting is required.



| Model | Adaptor type |
|----------------------------------|--------------|
| RZR18/24TBVJUB RZQ18/24TBVJUB | J90 |

2.2 Setting Mode and Monitor Mode

The following 3 modes can be changed over with the button switches on the PCB and you can find the present mode by the status of the H1P indicator.



(1) Setting mode 1 (H1P OFF)

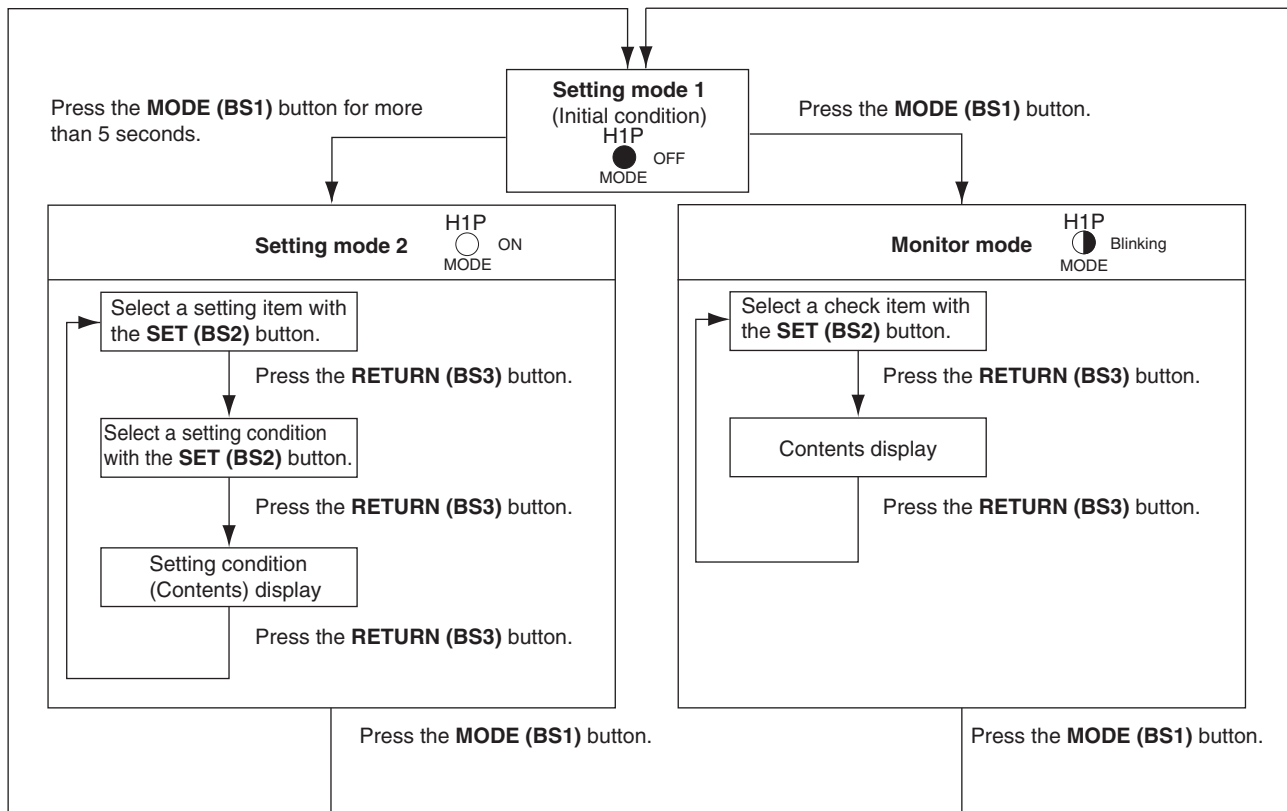
Initial status (normal) : Also indicates during abnormal.

(2) Setting mode 2 (H1P ON)

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

(3) Monitor mode (H1P blinks)

Used to check the program made in setting mode 2.



2.3 Setting Mode 1

This mode is used to set and check the following items.

1. Set items

In order to make COOL/HEAT selection in a batch of outdoor unit group, change the setting.

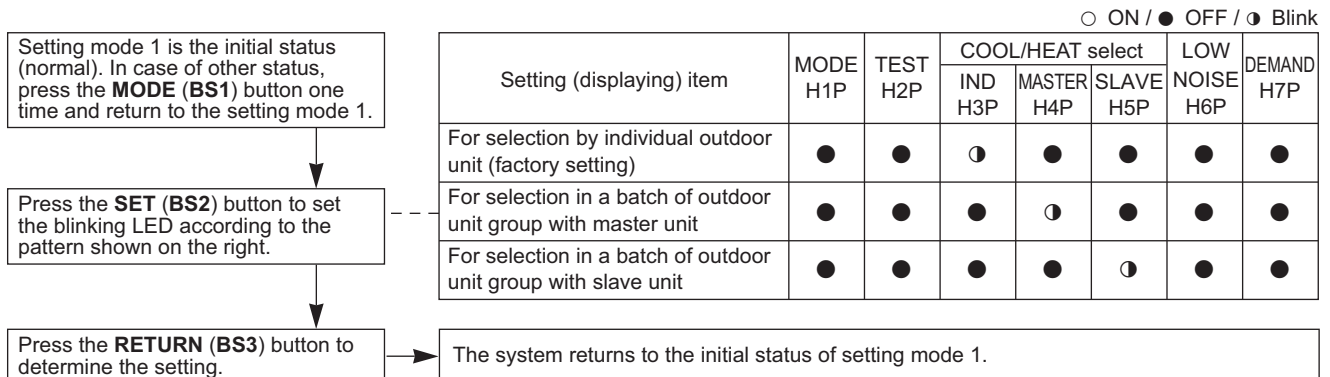
| | |
|------------------------------|---|
| COOL/HEAT selection (IND) | Used to select COOL or HEAT by individual outdoor unit (factory setting). |
| COOL/HEAT selection (MASTER) | Used to select COOL or HEAT by outdoor unit group with the master unit. |
| COOL/HEAT selection (SLAVE) | Used to select COOL or HEAT by outdoor unit group with the slave unit. |

2. Check items

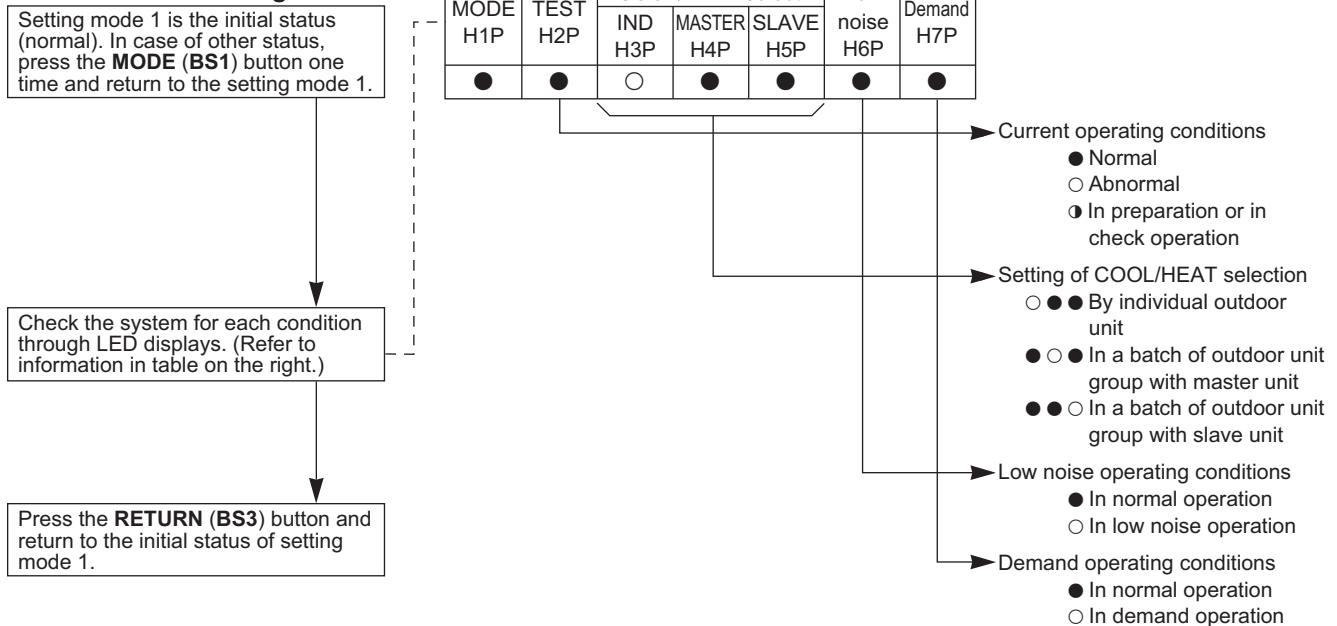
The following items can be checked.

- (1) Current operating conditions (Normal / Abnormal / In check operation)
- (2) Setting conditions of COOL/HEAT selection (Individual / Batch master / Batch slave)
- (3) Low noise operating conditions (In normal operation / In low noise operation)
- (4) Demand operating conditions (In normal operation / In demand operation)

Procedure for changing COOL/HEAT selection setting



Procedure for checking



2.4 Setting Mode 2

Press the **MODE (BS1)** button for 5 seconds and enter the setting mode 2.

Selection of setting items

Press the **SET (BS2)** button and select a setting item according to the LED pattern shown in the table on the right.

Press the **RETURN (BS3)** button and decide the item. (The present setting condition is shown.)

Selection of setting conditions

Press the **SET (BS2)** button and select to the setting condition you want.

Press the **RETURN (BS3)** button and decide the condition.

Press the **RETURN (BS3)** button and return to the initial status of setting mode 2.

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

| No. | Setting item | Description |
|---------|---|---|
| 1 | Cool / heat unified address | Sets address for cool / heat unified operation. |
| 2 | Low noise / demand address | Address for low noise / demand operation |
| 3 | Test operation settings | Used to conduct test operation without making changes to the PCB and replacing the refrigerant, after the completion of maintenance. |
| 5 | Indoor unit forced fan H | Allows forced operation of indoor fan while unit is stopped. (H tap) |
| 6 | Indoor unit forced operation | Allows forced operation of indoor unit. |
| 7 | SC adjustment | Subcooling adjustment for refrigerant addition. |
| 8 | Te setting | Target evaporation temperature for cooling |
| 9 | Tc setting | Target condensation temperature for heating |
| 10 | Defrost changeover setting | Changes the temperature condition for defrost and sets to earlier start defrost or later start defrost. |
| 11 (*1) | TeS upper limit setting | Target evaporation temperature upper limit for cooling |
| 12 | External low noise / demand setting | Reception of external low noise or demand signal |
| 13 | AIRNET address | Set address for AIRNET. |
| 16 | Setting of heat pump lockout 1 | Make this setting for heat pump lockout. |
| 18 (*2) | Heating capacity setting | Improves heating capacity at low ambient. |
| 19 | Emergency automatic heat pump lockout | Heat pump is automatically locked out in the event of a system failure. |
| 20 | Additional refrigerant charge operation setting | Carries out additional refrigerant charge operation. |
| 21 | Refrigerant recovery / vacuuming mode setting | Sets to refrigerant recovery or vacuuming mode. |
| 22 | Night-time low noise setting | Sets automatic nighttime low noise operation in a simple way. The operating time is based on Starting Set and Ending Set. |
| 25 | Setting of low noise level | Sets low noise level when the low noise signal is received. |
| 26 | Night-time low noise operation start setting | Sets starting time of nighttime low noise operation. (Night-time low noise setting is also required.) |
| 27 | Night-time low noise operation end setting | Sets ending time of nighttime low noise operation. (Night-time low noise setting is also required.) |
| 28 | Power transistor check mode *Check after disconnection of compressor wires | Used for trouble diagnosis of DC compressor. Since the waveform of inverter is output without wiring to the compressor, it is convenient to probe whether the trouble comes from the compressor or PCB. |
| 29 | Capacity precedence setting | If the capacity control is required, the low noise control is automatically released by this setting during carrying out low noise operation and night-time low noise operation. |
| 30 | Demand setting 1 | Changes target value of power consumption when demand control 1 is received. |
| 32 | Constant demand setting | Enables demand control 1 without external input. |
| 37 | Setting of heat pump lockout 2 | Make this setting for heat pump lockout. |
| 41 | Cooling comfort setting | Selects comfort level of VRT cooling. |
| 42 | Heating comfort setting | Selects comfort level of VRT heating. |
| 47 | Heat pump lockout release differential | Heat pump would be resumed when the outdoor air temperature is recovered by differential above the heat pump lockout temperature. |
| 50 | Auxiliary heater maximum allowable temperature | Auxiliary heater is allowed to energize when the outdoor air temperature is smaller than the auxiliary heater maximum allowable temperature. |
| 54 (*3) | TcS lower limit setting | Target condensation temperature lower limit for heating |
| 56 | Auxiliary heater maximum allowable temperature release differential | Auxiliary heater is not allowed to energize when the outdoor air temperature is recovered by differential above the auxiliary heater maximum allowable temperature. |
| 57 | Heat pump lockout temperature | Heat pump would be locked out when the outdoor air temperature is smaller than the heat pump lockout temperature. This setting is only effective when heat pump lockout mode has been set. |

The numbers in the No. column represent the number of times to press the **SET (BS2)** button

*1. For RZR30-48TBVJUA, RZR18-48TBVJUB, RZQ30-48TBVJUA, RZQ18-48TBVJUB only

*2. For RZQ18/24TBVJUB only

*3. For RZQ30-48TBVJUA, RZQ18-48TBVJUB only

| No. | Setting item display | | | | | | | | Setting condition display | |
|---------|---------------------------------------|-----------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--|
| | Setting item | MODE H1P | TEST H2P | C/H selection | | | Low noise H6P | Demand H7P | | |
| | | | | IND H3P | Master H4P | Slave H5P | | | | |
| 1 | Cool / heat unified address | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | Address 0 <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> * |
| | | | | | | | | | | Binary number (6 digits) 1 <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> ~ 31 <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> |
| 2 | Low noise / demand address | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | Address 0 <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> * |
| | | | | | | | | | | Binary number (6 digits) 1 <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> ~ 31 <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> |
| 3 | Test operation settings | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Test operation : OFF <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> * |
| | | | | | | | | | | Test operation : ON <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input checked="" type="radio"/> |
| 5 | Indoor unit forced fan H | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | Normal operation <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> * |
| | | | | | | | | | | Indoor forced fan H <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input checked="" type="radio"/> |
| 6 | Indoor unit forced operation | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | Normal operation <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> * |
| | | | | | | | | | | Indoor forced operation <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input checked="" type="radio"/> |
| 7 | SC adjustment | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | ON <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input checked="" type="radio"/> * |
| | | | | | | | | | | OFF <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> |
| 8 | Te setting | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | Target Te: 11°C (51.8°F) <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> |
| | | | | | | | | | | 10°C (50°F) <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> |
| | | | | | | | | | | 9°C (48.2°F) <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> |
| | | | | | | | | | | 8°C (46.4°F) <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> |
| | | | | | | | | | | Variable (VRT) <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> * |
| | | | | | | | | | | 6°C (42.8°F) <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input checked="" type="radio"/> |
| | | | | | | | | | | 3°C (37.4°F) <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> |
| 9 | Tc setting | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | Target Tc: 52°C (125.6°F) <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> |
| | | | | | | | | | | 46°C (114.8°F) <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input checked="" type="radio"/> |
| | | | | | | | | | | Variable (VRT) <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input checked="" type="radio"/> * |
| 10 | Defrost changeover setting | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | Earlier start defrost <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> |
| | | | | | | | | | | Normal (factory setting) <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> * |
| | | | | | | | | | | Later start defrost <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> |
| 11 (*1) | TeS upper limit setting | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | L <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> |
| | | | | | | | | | | M <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input checked="" type="radio"/> * |
| | | | | | | | | | | H <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> |
| 12 | External low noise / demand setting | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | External low noise/demand: NO <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> * |
| | | | | | | | | | | External low noise/demand: YES <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input checked="" type="radio"/> |
| 13 | AIRNET address | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | Address 0 <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> * |
| | | | | | | | | | | Binary number (6 digits) 1 <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> ~ 63 <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> |
| 16 | Setting of heat pump lockout 1 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | OFF <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> * |
| | | | | | | | | | | ON <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input checked="" type="radio"/> |
| 18 (*2) | Heating capacity setting | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | OFF <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> * |
| | | | | | | | | | | ON <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input checked="" type="radio"/> |
| 19 | Emergency automatic heat pump lockout | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | ON <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> * |
| | | | | | | | | | | OFF <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input checked="" type="radio"/> |

The numbers in the No. column represent the number of times to press the SET (BS2) button.

*1. For RZR30-48TBVJUA, RZR18-48TBVJUB, RZQ30-48TBVJUA, RZQ18-48TBVJUB only

*2. For RZQ18/24TBVJUB only

2.5 Monitor Mode

Press the **MODE (BS1)** button and enter the monitor mode.

Selection of check item

Press the **SET (BS2)** button to match the LED status with the item to be checked.

Confirmation on check item

Press the **RETURN (BS3)** button to display different data of check item.

Press the **RETURN (BS3)** button and return to the initial status of monitor mode.

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

| No. | Setting item | LED display | | | | | | | Data display |
|-----|--|-------------|-----|-----|-----|-----|-----|-----|--|
| | | H1P | H2P | H3P | H4P | H5P | H6P | H7P | |
| 0 | Various setting | ● | ● | ● | ● | ● | ● | ● | See the note below. |
| 1 | Cool / heat unified address | ● | ● | ● | ● | ● | ● | ○ | Lower 6 digits |
| 2 | Low noise / demand address | ● | ● | ● | ● | ● | ○ | ● | |
| 3 | Not used | ● | ● | ● | ● | ● | ○ | ○ | |
| 4 | AIRNET address | ● | ● | ● | ● | ○ | ● | ● | |
| 5 | Number of connected indoor units | ● | ● | ● | ● | ○ | ● | ○ | |
| 7 | Number of connected zone units (excluding outdoor and BS unit) | ● | ● | ● | ● | ○ | ○ | ○ | |
| 8 | Number of outdoor units | ● | ● | ● | ○ | ● | ● | ● | Lower 6 digits |
| 11 | Number of zone units (excluding outdoor and BS unit) | ● | ● | ● | ○ | ● | ○ | ○ | |
| 12 | Number of terminal blocks | ● | ● | ● | ○ | ○ | ● | ● | |
| 13 | Number of terminal blocks | ● | ● | ● | ○ | ○ | ● | ○ | Lower 4 digits: lower |
| 14 | Latest error | ● | ● | ● | ○ | ○ | ○ | ● | Refer to the error code table on Part 6. |
| 15 | 2nd latest error | ● | ● | ● | ○ | ○ | ○ | ○ | |
| 16 | 3rd latest error | ● | ● | ○ | ● | ● | ● | ● | |
| 20 | Latest retry | ● | ● | ○ | ● | ○ | ● | ● | |
| 21 | 2nd latest retry | ● | ● | ○ | ● | ○ | ● | ○ | |
| 22 | 3rd latest retry | ● | ● | ○ | ● | ○ | ○ | ● | |
| 25 | Normal judgment of outdoor units PCB | ● | ● | ○ | ○ | ● | ● | ○ | Lower 2 digits: ○● Abnormal ●○ Normal ●● Unjudgment |

The numbers in the No. column represent the number of times to press the **SET (BS2)** button.



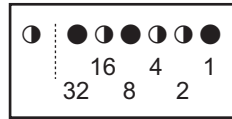
Note(s) Various Settings

| | | H1P | H2P | H3P | H4P | H5P | H6P | H7P |
|--|--------|-----|-----|-----|-----|-----|-----|-----|
| Emergency operation / backup operation setting | ON | ● | ● | ● | ○ | ● | ● | ● |
| | OFF | ● | ● | ● | ● | ● | ● | ● |
| Defrost select setting | Short | ● | ● | ● | ● | ○ | ● | ● |
| | Medium | ● | ● | ● | ● | ● | ● | ● |
| | Long | ● | ● | ● | ● | ● | ● | ● |
| Te setting | H | ● | ● | ● | ● | ● | ○ | ● |
| | M | ● | ● | ● | ● | ● | ● | ● |
| | L | ● | ● | ● | ● | ● | ● | ● |
| Tc setting | H | ● | ● | ● | ● | ● | ● | ○ |
| | M | ● | ● | ● | ● | ● | ● | ● |
| | L | ● | ● | ● | ● | ● | ● | ● |

Press the **SET (BS2)** button and match with the LEDs No. 1 - 15, push the **RETURN (BS3)** button, and confirm the data for each setting.

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

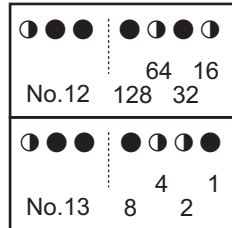
Figure 1



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

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

Figure 2



The number of terminal blocks for No. 12 and 13 is expressed as an 8-digit binary number, which is the combination of four upper, and four lower digits for No. 12 and 13 respectively. (0 - 128)

In the figure 2, the address for No. 12 is 0101, the address for No. 13 is 0110, and the combination of the two is 01010110 (binary number), which translates to $64 + 16 + 4 + 2 = 86$ (base 10 number). In other words, the number of terminal block is 86.

*Refer to the preceding page for a list of data, etc. for No. 0 - 25.

2.6 Setting of Low Noise Operation and Demand Operation

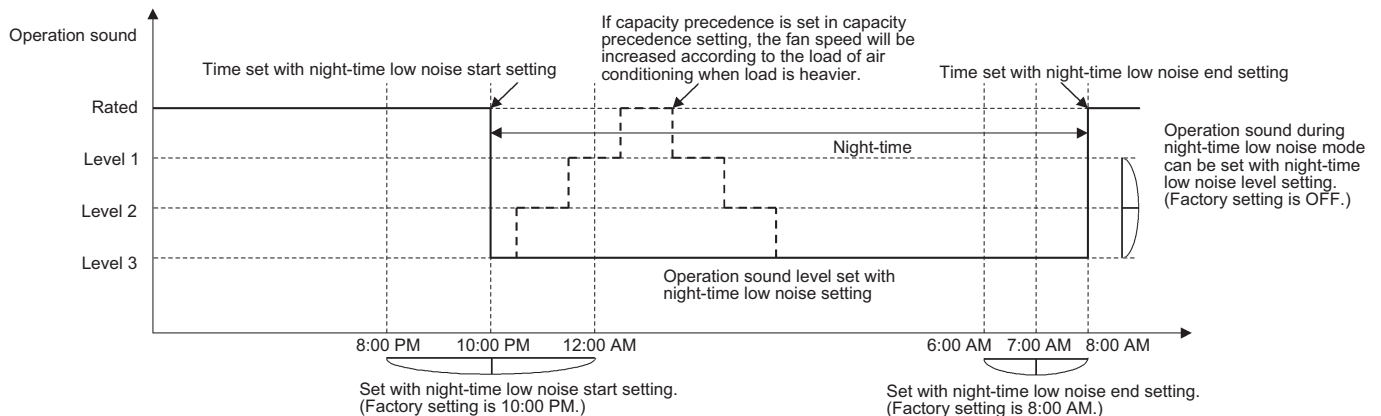
Setting of Low Noise Operation

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

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

1. While in setting mode 2, select the setting condition (i.e., Mode 1, Mode 2, or Mode 3) for set item No. 22 (Setting of night-time low noise level).
2. If necessary, while in setting mode 2, select the setting condition (i.e., 8:00 PM, 10:00 PM, or 12:00 AM) for set item No. 26 (Setting of start time of night-time low noise operation).
(Use the start time as a guide since it is estimated according to outdoor temperatures.)
3. If necessary, while in setting mode 2, select the setting condition (i.e., 06:00 AM, 07:00 AM, or 08:00 AM) for set item No. 27 (Setting of end time of night-time low noise operation).
(Use the end time as a guide since it is estimated according to outdoor temperatures.)
4. If necessary, while in setting mode 2, set the setting condition for set item No. 29 (Setting of capacity precedence) to ON.
(If the condition is set to ON, when the air-conditioning load reaches a high level, the system enters to normal operation mode even during night-time.)

Image of operation



Setting of Demand Operation

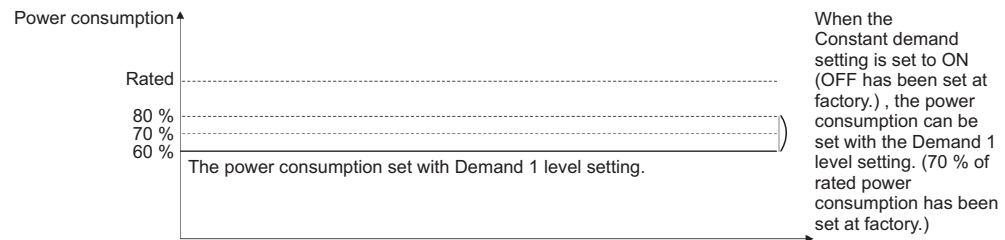
By connecting the external contact input to the demand input of the external control adaptor for outdoor unit (optional), the power consumption of unit operation can be saved suppressing the compressor operating condition.

| Set item | Condition | Content |
|----------|-----------|---|
| Demand | Mode 1 | The compressor operates at 60% or less of rating. |
| | Mode 2 | The compressor operates at 70% or less of rating. |
| | Mode 3 | The compressor operates at 80% or less of rating. |

When the constant demand operation is carried out. (Use of the external control adaptor for outdoor unit is not required.)

1. While in setting mode 2, make setting of the set item No. 32 (Setting of constant demand) to ON.
2. While in setting mode 2, select the set item No. 30 (Setting of Demand 1 level) and then set the setting condition to targeted mode.

Image of operation



Detailed Setting Procedure of Low Noise Operation and Demand Control

1. Setting mode 1 (H1P OFF)

In setting mode 2, push the **MODE (BS1)** button one time. → The system enters setting mode 1 and the H1P goes off.

In setting mode 1, the H6P (In low noise operation) and the H7P (In demand control) keep lighting.

2. Setting mode 2 (H1P ON)

- (1) In setting mode 1, push and hold the **MODE (BS1)** button for more than 5 seconds. → The system enters setting mode 2 and the H1P lights up.
- (2) Push the **SET (BS2)** button several times and match the LED display with the Setting No. you want.
- (3) Push the **RETURN (BS3)** button one time, and the present setting content is displayed. → Push the **SET (BS2)** button several times and match the LED display with the setting content (as shown on next page) you want.
- (4) Push the **RETURN (BS3)** button two times. → The system returns to (1).
- (5) Push the **MODE (BS1)** button one time. → The system returns to setting mode 1 and the H1P goes OFF.

○: ON ●: OFF ◐: Blink

| Setting No. | Setting contents | (1) Setting No. indication | | | | | | | (2) Setting No. indication | | | | | | | Setting contents | (3) Setting contents indication (Initial setting) | | | | | | | |
|-------------|--|---|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|---|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| | | H1P | H2P | H3P | H4P | H5P | H6P | H7P | H1P | H2P | H3P | H4P | H5P | H6P | H7P | | H1P | H2P | H3P | H4P | H5P | H6P | H7P | |
| 12 | External low noise / demand setting | <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> | | | | | | | <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> | | | | | | | NO (Factory setting) | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | |
| | | | | | | | | | | | | | | | | YES | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | |
| 22 | Night-time low noise setting | <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> | | | | | | | <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> | | | | | | | OFF (Factory setting) | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | |
| | | | | | | | | | | | | | | | | Level 1 | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | |
| | | | | | | | | | | | | | | | | Level 2 | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| | | | | | | | | | | | | | | | | Level 3 | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| 26 | Night-time low noise operation start setting | <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input checked="" type="radio"/> | | | | | | | <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input checked="" type="radio"/> | | | | | | | 8:00 PM | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | |
| | | | | | | | | | | | | | | | | 10:00 PM (Factory setting) | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| | | | | | | | | | | | | | | | | 12:00 AM | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| 27 | Night-time low noise operation end setting | <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> | | | | | | | <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> | | | | | | | 6:00 AM | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | |
| | | | | | | | | | | | | | | | | 7:00 AM | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| | | | | | | | | | | | | | | | | 8:00 AM (Factory setting) | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | |
| 29 | Capacity precedence setting | <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> | | | | | | | <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> | | | | | | | Low noise precedence (Factory setting) | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | |
| | | | | | | | | | | | | | | | | Capacity precedence | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | |
| 30 | Demand setting 1 | <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> | | | | | | | <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> | | | | | | | 60 % of rated power consumption | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | |
| | | | | | | | | | | | | | | | | 70 % of rated power consumption (Factory setting) | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | |
| | | | | | | | | | | | | | | | | 80 % of rated power consumption | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | |
| 32 | Constant demand setting | <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> | | | | | | | <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> | | | | | | | OFF (Factory setting) | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | |
| | | | | | | | | | | | | | | | | ON | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |

Setting mode indication section

Setting No. indication section

Set contents indication section

2.7 Setting of Refrigerant Recovery Mode

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

All indoor and outdoor unit's operation are prohibited.

Operation procedure

1. In setting mode 2 with units in stop mode, set the item No.21 (refrigerant recovery / vacuuming mode) to ON. The respective expansion valve of indoor and outdoor units are fully opened. **Test Operation** and **Under Centralized Control** are displayed on the remote controller, and the indoor / outdoor unit operation is prohibited. After setting, do not cancel setting mode 2 until completion of refrigerant recovery operation.
2. Collect the refrigerant using a refrigerant recovery unit. (See the instruction attached to the refrigerant recovery unit for more detail.)
3. Press the **MODE (BS1)** button once and return to setting mode 2.

2.8 Setting of Vacuuming Mode

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

Operating procedure

1. In setting mode 2 with units in stop mode, set the item No.21 (refrigerant recovery / vacuuming mode) to ON. The respective expansion valve of indoor and outdoor units are fully opened. **Test Operation** and **Under Centralized Control** are displayed on the remote controller, and the indoor / outdoor unit operation is prohibited.
After setting, do not cancel setting mode 2 until completion of Vacuuming operation.
2. Use the vacuum pump to perform vacuuming operation.
3. Press the **MODE (BS1)** button once and reset setting mode 2.

2.9 Final Charge Adjustment

The following operation is needed only when the most adequate refrigerant charge for the best performance is required and the piping length between the outdoor and indoor units is less than 15 m (50 ft). Besides the conditions above, this final adjustment is unnecessary.

Procedure

The outdoor temperature must be between 18°C (65°F) and 40°C (105°F).

1. While in setting mode 2, set the item 2-20 (Additional refrigerant charge operation setting) to ON. (LEDs: ○●)
2. While in setting mode 2, set the item 2-7 (SC adjustment) to ON. (LEDs: ○●)
3. Cooling operation begins; wait until the compressor achieves charge mode rotation speed.
Charge mode rotation speed achieved: (LEDs: ○●●●●●○)
Charge mode rotation speed not yet achieved: (LEDs: ○●●●●●●)
4. Measure the subcooling temperature at the liquid stop valve.
5. According to the table below, if the subcooling temperature is low, charge refrigerant through the liquid stop valve little by little to raise the temperature to the target value. (The maximum additional charge is 1 kg (2.2 lbs)). If the subcooling temperature is high, remove refrigerant to lower the temperature to the target value.

| Model | Target subcooling |
|-------------|-------------------------|
| 18/24 class | 3.33 ± 0.56°C (6 ± 1°F) |
| 30/36 class | 3.89 ± 0.56°C (7 ± 1°F) |
| 42 class | 4.44 ± 0.56°C (8 ± 1°F) |
| 48 class | 5.00 ± 0.56°C (9 ± 1°F) |

If the connected indoor unit is FCQ-TA, FCQ-AA, FBQ-P or FBQ-TB, refer to the table below.

| Model | Target subcooling |
|-------------|-------------------------|
| 18-30 class | 3.33 ± 0.56°C (6 ± 1°F) |
| 36 class | 3.89 ± 0.56°C (7 ± 1°F) |
| 42 class | 4.44 ± 0.56°C (8 ± 1°F) |
| 48 class | 5.00 ± 0.56°C (9 ± 1°F) |

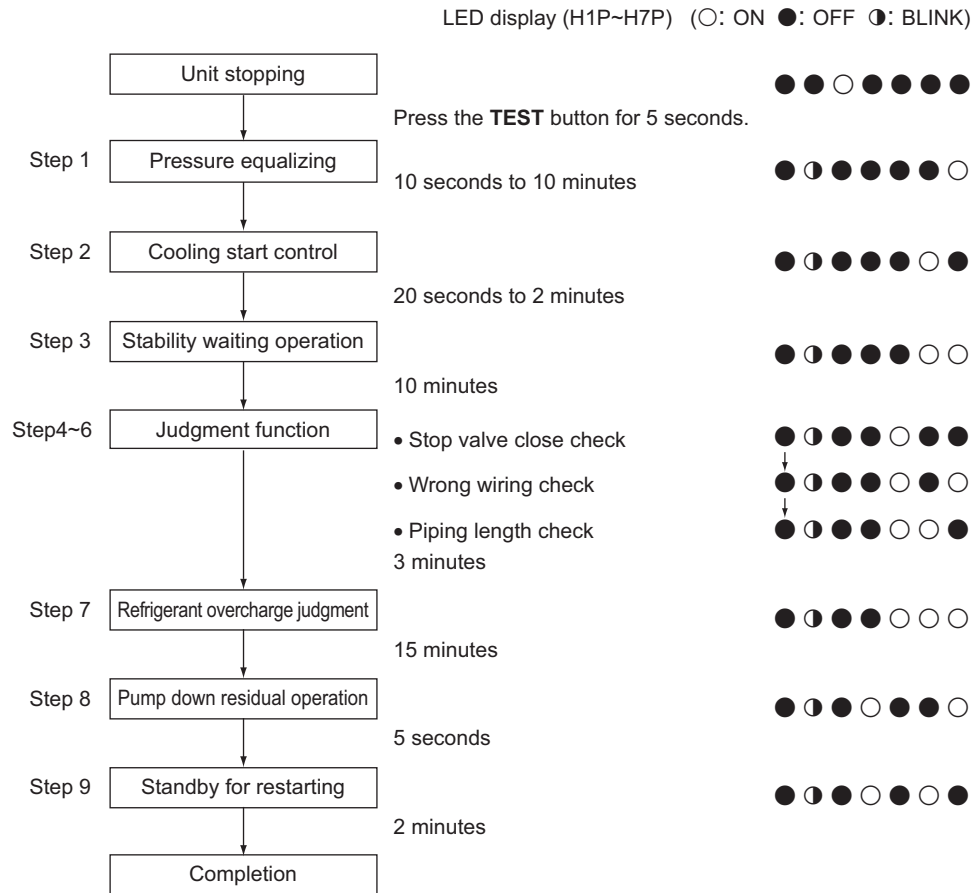


Note(s)

- The operation is not possible when a vessel is attached to the liquid piping.
- Refrigerant charge mode ends in 60 minutes. If 60 minutes is not long enough, begin the procedure again from step (1).
- When the discharge pipe superheat degree is low, or if the low pressure is too low, forcibly end refrigerant charge mode.

2.10 Check Operation

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



2.11 Setting of Auxiliary Heater Control

To improve efficiency and lower install cost the auxiliary heater can be lockout based on outdoor temperature.

Auxiliary heater maximum allowable temperature

Auxiliary heater is allowed to energize when the outdoor air temperature is smaller than the auxiliary heater maximum allowable temperature.

| No. | Setting item display | | | | | | | | Setting condition display | | | | | | | | | | | | |
|-----|--|----------|----------|---------------|------------|-----------|---------------|------------|---------------------------|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|
| | Setting item | MODE H1P | TEST H2P | C/H selection | | | Low noise H6P | Demand H7P | | | | | | | | | | | | | |
| | | | | IND H3P | Master H4P | Slave H5P | | | | | | | | | | | | | | | |
| 50 | Auxiliary heater maximum allowable temperature | ○ | ○ | ○ | ● | ● | ○ | ● | * Factory setting | | | | | | | | | | | | |
| | | | | | | | | | -17.7°C (0°F) | ○ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | | | | | | | | -15°C (5°F) | ○ | ● | ● | ● | ● | ● | ○ | ● | ● | ● | ○ | |
| | | | | | | | | | -12.2°C (10°F) | ○ | ● | ● | ● | ● | ○ | ● | ○ | ○ | ● | ○ | |
| | | | | | | | | | -9.4°C (15°F) | ○ | ● | ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | |
| | | | | | | | | | -6.6°C (20°F) | ○ | ● | ● | ● | ○ | ● | ● | ○ | ○ | ○ | ○ | |
| | | | | | | | | | -3.8°C (25°F) | ○ | ● | ● | ● | ○ | ○ | ● | ○ | ○ | ○ | ○ | |
| | | | | | | | | | -1.1°C (30°F) | ○ | ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | | | | | | | | | 1.6°C (35°F) | ○ | ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | * |
| | | | | | | | | | 4.4°C (40°F) | ○ | ● | ● | ○ | ● | ● | ● | ○ | ○ | ○ | ○ | |
| | | | | | | | | | 7.2°C (45°F) | ○ | ● | ● | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ | |
| | | | | | | | | | 10°C (50°F) | ○ | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | | | | | | | | | 12.7°C (55°F) | ○ | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | | | | | | | | | 15.5°C (60°F) | ○ | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | | | | | | | | | 18.3°C (65°F) | ○ | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | | | | | | | | | | Auxiliary heater always not allowed | ○ | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Auxiliary heater always allowed | ○ | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | | | | |

Auxiliary heater maximum allowable temperature release differential

Auxiliary heater is not allowed to energize when the outdoor air temperature is recovered by differential above the auxiliary heater maximum allowable temperature.

| No. | Setting item display | | | | | | | | Setting condition display | | | | | | | | | | |
|-----|---|----------|----------|---------------|------------|-----------|---------------|------------|---------------------------|---|---|---|---|---|---|---|---|---|---|
| | Setting item | MODE H1P | TEST H2P | C/H selection | | | Low noise H6P | Demand H7P | | | | | | | | | | | |
| | | | | IND H3P | Master H4P | Slave H5P | | | | | | | | | | | | | |
| 56 | Auxiliary heater maximum allowable temperature release differential | ○ | ○ | ○ | ○ | ● | ● | ● | * Factory setting | | | | | | | | | | |
| | | | | | | | | | 2.8°C (5°F) | ○ | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | | | | | | | | 5.6°C (10°F) | ○ | ● | ● | ● | ● | ● | ○ | ○ | ○ | ○ |
| | 8.3°C (15°F) | ○ | ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | | |

2.12 Setting of Heat Pump Lockout and Emergency Heat Mode

Heat pump is locked out when the setting below and/or external input to ABC terminal has been made.

| No. | Setting item display | | | | | | | | Setting condition display | | | | | | | | |
|-----|--------------------------------|-----------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|---------------------------|-----------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|---|
| | Setting item | MODE H1P | TEST H2P | C/H selection | | | Low noise H6P | Demand H7P | | | | | | | | | |
| | | | | IND H3P | Master H4P | Slave H5P | | | | | | | | | | | |
| 16 | Setting of heat pump lockout 1 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | OFF | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | * |
| 37 | Setting of heat pump lockout 2 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | OFF | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | * |
| | | | | | | | | | Mode 1 | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | |
| | | | | | | | | | Mode 2 | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | |
| | | | | | | | | | Mode 3 | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| | | | | | | | | | Mode 4 | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | |
| | | | | | | | | | Mode 5 | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | |
| | | | | | | | | | Mode 6 | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | |

| Type | Description | Actions | | | | | | |
|--------|---|--|-----------------------------------|-------------------|-----|--------------------|-----|----|
| | | Field setting | Shorted between | Heating Thermo-on | | Heating Thermo-off | | |
| | | | | Heater | Fan | Heater | Fan | |
| I | – | Heat-pump heating is always locked out | 2-16: ON | – | ON | ON (H/L) | OFF | LL |
| II | Mode 1 | Lockout is controlled by ABC terminals | 2-37: Mode 1 | A-C | ON | ON (H/L) | OFF | LL |
| | B-C | | | OFF | | | | |
| | Mode 2 (for a heater which does not need airflow) | | 2-37: Mode 2 | A-C | | LL | | LL |
| | B-C | | | OFF | | OFF | | |
| | Mode 3 | 2-37: Mode 3 | Same as 2-37: Mode 1, A-C shorted | | | | | |
| | Mode 4 | 2-37: Mode 4 | Same as 2-37: Mode 1, B-C shorted | | | | | |
| Mode 5 | 2-37: Mode 5 | Same as 2-37: Mode 2, A-C shorted | | | | | | |
| Mode 6 | 2-37: Mode 6 | Same as 2-37: Mode 2, B-C shorted | | | | | | |

Heat pump lockout temperature

Heat pump would be locked out when the outdoor air temperature is smaller than the heat pump lockout temperature. This setting is only effective when heat pump lockout mode has been set.

| No. | Setting item display | | | | | | | | Setting condition display | | | | | | | | | |
|--------------------------|-------------------------------|----------|----------|---------------|------------|-----------|---------------|------------|---------------------------|---|---|---|---|---|---|---|---|---|
| | Setting item | MODE H1P | TEST H2P | C/H selection | | | Low noise H6P | Demand H7P | | | | | | | | | | |
| | | | | IND H3P | Master H4P | Slave H5P | | | | | | | | | | | | |
| 57 | Heat pump lockout temperature | ○ | ○ | ○ | ○ | ● | ● | ○ | * Factory setting | | | | | | | | | |
| | | | | | | | | | -26.1°C (-15°F) | ○ | ● | ● | ● | ● | ● | ● | ● | * |
| | | | | | | | | | -23.3°C (-10°F) | ○ | ● | ● | ● | ● | ● | ○ | | |
| | | | | | | | | | -20.5°C (-5°F) | ○ | ● | ● | ● | ● | ○ | ● | | |
| | | | | | | | | | -17.7°C (0°F) | ○ | ● | ● | ● | ● | ○ | ○ | | |
| | | | | | | | | | -15°C (5°F) | ○ | ● | ● | ● | ○ | ● | ● | | |
| | | | | | | | | | -12.2°C (10°F) | ○ | ● | ● | ● | ○ | ● | ○ | | |
| | | | | | | | | | -9.4°C (15°F) | ○ | ● | ● | ● | ○ | ○ | ● | | |
| | | | | | | | | | -6.6°C (20°F) | ○ | ● | ● | ● | ○ | ○ | ○ | | |
| | | | | | | | | | -3.8°C (25°F) | ○ | ● | ● | ○ | ● | ● | ● | | |
| | | | | | | | | | -1.1°C (30°F) | ○ | ● | ● | ○ | ● | ● | ○ | | |
| | | | | | | | | | 1.6°C (35°F) | ○ | ● | ● | ○ | ● | ○ | ● | | |
| | | | | | | | | | 4.4°C (40°F) | ○ | ● | ● | ○ | ● | ○ | ○ | | |
| | | | | | | | | | 7.2°C (45°F) | ○ | ● | ● | ○ | ○ | ● | ● | | |
| | | | | | | | | | 10°C (50°F) | ○ | ● | ● | ○ | ○ | ● | ○ | | |
| Forced heat pump lockout | ○ | ● | ● | ○ | ○ | ○ | ● | | | | | | | | | | | |

Heat pump lockout release differential

Heat pump would be resumed when the outdoor air temperature is recovered by differential above the heat pump lockout temperature.

| No. | Setting item display | | | | | | | | Setting condition display | | | | | | | | | |
|-----|--|----------|----------|---------------|------------|-----------|---------------|------------|---------------------------|---|---|---|---|---|---|---|---|--|
| | Setting item | MODE H1P | TEST H2P | C/H selection | | | Low noise H6P | Demand H7P | | | | | | | | | | |
| | | | | IND H3P | Master H4P | Slave H5P | | | | | | | | | | | | |
| 47 | Heat pump lockout release differential | ○ | ○ | ● | ○ | ○ | ○ | ○ | * Factory setting | | | | | | | | | |
| | | | | | | | | | 2.8°C (5°F) | ○ | ● | ● | ● | ● | ● | ● | ● | |
| | | | | | | | | | 5.6°C (10°F) | ○ | ● | ● | ● | ● | ● | ○ | * | |
| | | | | | | | | | 8.3°C (15°F) | ○ | ● | ● | ● | ● | ○ | ● | | |

Automatic lockout

When heat pump lockout mode has been set, the auto backup function will automatically be set. This will allow the auxiliary or secondary heat source to be automatically energized in the event of a system failure related to outdoor units.

| No. | Setting item display | | | | | | | | Setting condition display | | | | | | | | |
|-----|---------------------------------------|----------|----------|---------------|------------|-----------|---------------|------------|---------------------------|---|---|---|---|---|---|---|---|
| | Setting item | MODE H1P | TEST H2P | C/H selection | | | Low noise H6P | Demand H7P | | | | | | | | | |
| | | | | IND H3P | Master H4P | Slave H5P | | | | | | | | | | | |
| 19 | Emergency automatic heat pump lockout | ○ | ● | ○ | ● | ● | ○ | ○ | * Factory setting | | | | | | | | |
| | | | | | | | | | ON | ○ | ● | ● | ● | ● | ● | ○ | * |
| | | | | | | | | | OFF | ○ | ● | ● | ● | ● | ○ | ● | |

3. Test Operation

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

3.1 Check Work Prior to Turning Power Supply ON

Check the below items.

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



Check on refrigerant piping / insulation material



Check on amount of refrigerant charge

- Is the power supply appropriate?
- Have you finished a ductwork to drain?
- Have you detach transport fitting?
- Is the wiring performed as specified?
- Are the designated wires used?
- Is the grounding work completed?
Use a 500 V Megger tester to measure the insulation.
Do not use a Megger tester for low voltage circuits.
- Are the setscrews of wiring not loose?
- Is the electrical component box covered with an insulation cover completely?

- Is pipe size proper? (The design pressure of this product is 4.0 MPa (580 psi).)
- Are pipe insulation materials installed securely?
Liquid and gas pipes need to be insulated. (Otherwise causes water leak.)
- Are respective stop valves on liquid and gas line securely open?

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

3.2 Turn Power ON

Turn outdoor unit power ON.



Turn indoor unit power ON.



Carry out field setting on outdoor PCB

- Be sure to turn the power ON 6 hours before starting operation to protect compressors.
- Close outside panels of the outdoor unit.

3.3 Test Operation

To start smoothly, a crankcase heater is equipped to the unit. To power up the crankcase heater in advance, be sure to turn on the power supply 6 hours before operation.



Warning

Be sure to inform other installers or attach the front panel well before leaving with the power supply turned on for the outdoor unit.

Before powering on

- Protect the electronic components with insulating tape in accordance with the Service Precautions label attached to the front panel.
- All indoor units connected with the outdoor unit will operate automatically after powering on. To ensure safety, ensure that the indoor unit installation has been completed.

1. Powering on ~ test operation

- Make sure to perform a test run first after installation (If the unit is operated with the indoor unit remote controller but without performing a test operation, the error code **U3** will be indicated on the display of the remote controller and the unit will not operate normally).
- After turning on the power supply, do not touch any switches excluding button switches and changeover switches when setting the outdoor unit PCB (A1P or A2P).
(For positions of the button switches (BS1~5) and changeover switches (DS1-1, 2) on the PCB, refer to the Service Precautions label)
- Check the state of the outdoor units and faulty wiring with this operation.
 - (1)
 - Attach the front panel of the outdoor unit.
 - Turn on the power supply of the outdoor and indoor units.



Caution

To power up the crankcase heater in advance, be sure to turn on the power supply 6 hours before operation.

- (2)
 - Remove the front panel of the outdoor unit.
 - Check LED display of the outdoor unit PCB (A1P or A2P), to observe whether data transmission is normal.

| Outdoor unit PCB | A1P | A2P for RZR18/24TAVJU(A), RZQ18/24TAVJU(A), RZR18/24TBVJUA, RZQ18/24TBVJUA A1P for RZR18/24TBVJUB, RZQ18/24TBVJUB, 30-48 class | | | | | | |
|-------------------------------|-------------------------|---|----------|----------------|--------|-------|---------------------|--------|
| | SERVICE MONITORING LAMP | MODE | TEST/HWL | C/H CHANGEOVER | | | L.N.O.P (Low noise) | DEMAND |
| LED display (Factory setting) | HAP | H1P | H2P | IND | MASTER | SLAVE | H6P | H7P |
| | ● | ● | ● | ○ | ● | ● | ● | ● |

LED display ● Light OFF ○ Light ON ◐ Blinking



Caution

Don't touch the switches other than button switches and changeover switches of the PCB (A1P or A2P) during setting. Doing so may result in electric shock.

- (3)
 - If customer wishes to perform quiet operation or demand operation, perform setting with the push buttons (BS1 ~ 5) on outdoor unit PCB (A1P or A2P).
 - Operate the push buttons from the opening of the insulating cover. (See Protective range of the Service Precautions label for details)



Caution

Power supply has been turned on for outdoor unit, be careful to avoid electric shock.

- Set the push buttons (BS1 ~ 5) after making sure the service monitoring lamp has been ON.

- For setting method, see the Service Precautions label attached to the front panel of the outdoor unit. (Be sure to keep a record of the setting items to the Service Precautions label.)
 - Don't touch the changeover switches (DS1-1) while setting them. Doing so may result in malfunction.
- (4) ● Check whether the gas side and liquid side stop valves have been opened. Open them if they are closed.

**Caution**

Operation with the stop valve closed may result in compressor malfunction.

- (5) Press **TEST (BS4)** button for 5 seconds or more to perform test operation. See About test operation on the Service Precautions label for details.
- Ask other installers to perform test operation or attach the front panel before having to leave the outdoor unit working alone.
 - Test operation is automatically stopped after about 30 minutes (maximum 1 hour) operation. (Perform checks of faulty wiring, closed stop valves & refrigerant charging and auto determination of piping length)
 - After test operation is completed, if there is no error code on the display of the remote controller, the unit can perform normal operation 3 minutes later.
 - The display of the remote controller indicates symbol of test operation during this operation.
- (6) Be sure to attach the front panel of the outdoor unit after test operation is completed.

About test operation

- If operation is started within 12 minutes after the indoor and outdoor units are turned on, the compressor will not operate and H2P will light up.
Before operating, always check whether the symbols indicated on the LED display are those in the table under 1. Powering on ~ test operation (2).
- In order to ensure uniform refrigerant distribution, it may take up to around 10 minutes for the compressor to start up after the unit starting operation. This is not a malfunction.
- The operation check is not for checking individual indoor units. After completing the operation check, operate the system normally with the remote controller.
- Test operation can't be performed when the unit is in other modes such as refrigerant recycling mode.
- Never perform test operation with discharge pipe thermistor (R2T), suction pipe thermistor (R3T) and pressure sensor (S1NPH, S1NPL) removed. Failure to do so will result in compressor damage.

2. For normal operation

After test operation is completed, operate the unit normally.

(Heating is not possible if the outdoor temperature is 24°C (75.2°F) or higher. Refer to the operation manual.)

1. Check the indoor and outdoor units are in normal operation.
(If a knocking sound produced by liquid compression of the compressor can be heard, stop the unit immediately.)
2. Check to see if cold (or hot) air is coming out from the indoor unit.
3. Press the fan direction and strength buttons of the indoor unit to see if they operate properly.

About normal operation check

- The compressor will not restart in about 5 minutes even if the **ON/OFF** button of the remote controller is pressed.
- When system operation is stopped by the remote controller, the outdoor unit may continue operating for further 1 minute at maximum.
- If any check operation was not performed through test operation on first installation, the error code **U3** will be displayed. In this case, perform check operation in accordance with 1. Powering on ~ test operation.

3.4 Error Codes and Corresponding Measures

Please check the remote controller connected to the indoor unit for verification.

| Error code | | Description | Solution |
|--------------|----------|--|--|
| Primary code | Sub code | | |
| E3 | 01 | High pressure switch activated (S1PH) | Check the stop valve or (field) piping abnormality or the airflow on the air cooling heat exchanger. |
| | 02 | <ul style="list-style-type: none"> • Too much refrigerant charged • Stop valve closed | <ul style="list-style-type: none"> • Check the amount of refrigerant and recharge the unit. • Open the stop valve. |
| | 13 | Stop valve closed (liquid). | Open the liquid stop valve. |
| | 18 | <ul style="list-style-type: none"> • Too much refrigerant charged • Stop valve closed | <ul style="list-style-type: none"> • Check the amount of refrigerant and recharge the unit. • Open the stop valve. |
| E4 | 01 | Defective low pressure: <ul style="list-style-type: none"> • Stop valve closed • Refrigerant undercharged • Defective indoor unit | <ul style="list-style-type: none"> • Open the stop valve. • Check the amount of refrigerant and recharge the unit. • Check the user interface display. • Check the transmission wiring between the indoor and outdoor units. |
| E9 | 01 | Defective electronic expansion valve (Subcooling) (30-48 class: Y3E) | Check the connection of the PCB or the actuator. |
| | 04 | Defective electronic expansion valve (Main) (Y1E) | Check the connection of the PCB or the actuator. |
| F3 | 01 | Discharge pipe temperature too high: <ul style="list-style-type: none"> • Stop valve closed • Refrigerant undercharged | <ul style="list-style-type: none"> • Open the stop valve. • Check the amount of refrigerant and recharge the unit. |
| F6 | 02 | <ul style="list-style-type: none"> • Too much refrigerant charged • Stop valve closed | <ul style="list-style-type: none"> • Open the stop valve. • Check the amount of refrigerant and recharge the unit. |
| H9 | 01 | Defective outdoor air thermistor (R1T) | Check the connection of the PCB or the actuator. |
| J3 | 16 | Defective discharge pipe thermistor (R2T): Tripping | Check the connection of the PCB or the actuator. |
| | 17 | Defective discharge pipe thermistor (R2T): Short circuit | Check the connection of the PCB or the actuator. |
| J5 | 01 | Defective suction pipe thermistor (R3T and R5T): Tripping | Check the connection of the PCB or the actuator. |
| J6 | 01 | Defective outdoor heat exchanger deicer thermistor (R4T) | Check the connection of the PCB or the actuator. |
| J7 | 01 | Defective heat exchanger liquid pipe thermistor (R7T) | Check the connection of the PCB or the actuator. |
| J9 | 01 | Defective subcooling heat exchanger gas pipe thermistor (R6T: 30-48 class only) | Check the connection of the PCB or the actuator. |
| JA | 06 | Defective high pressure sensor (S1NPH): Tripping | Check the connection of the PCB or the actuator. |
| | 07 | Defective high pressure sensor (S1NPH): Short circuit | Check the connection of the PCB or the actuator. |
| JC | 06 | Defective low pressure sensor (S1NPL): Tripping | Check the connection of the PCB or the actuator. |
| | 07 | Defective low pressure sensor (S1NPL): Short circuit | Check the connection of the PCB or the actuator. |
| P1 | 01 | Inverter unbalanced power supply voltage | Check if the power supply meets the specifications. |
| U2 | 01 | Inverter insufficient voltage | Check if the power supply meets the specifications. |
| | 02 | Inverter power supply phase missing | Check if the power supply meets the specifications. |
| U3 | 03 | System test operation not yet executed (Test operation cannot be executed.) | Execute system test operation. |

| Error code | | Description | Solution |
|--------------|----------|--|--|
| Primary code | Sub code | | |
| U4 | 01 | Q1/Q2 or indoor-outdoor units wiring error | Check (Q1/Q2) wiring. |
| | 03 | Q1/Q2 or indoor-outdoor units wiring error | Check (Q1/Q2) wiring. |
| | 04 | System test operation ends abnormally. | Re-execute the test operation. |
| U9 | 01 | System mismatch Mismatched indoor unit models used (R-410A, R-407C, RA, Hydrobox, etc.). Defective indoor unit | Check if there are any other defective indoor units and verify if the indoor unit combination meets requirements. |
| UA | 03 | Defective indoor unit connection or mismatched models (R-410A, R-407C, RA, Hydrobox, etc.). | Check if there are any other defective indoor units and verify if the indoor unit combination meets requirements. |
| | 18 | Defective indoor unit connection or mismatched models (R-410A, R-407C, RA, Hydrobox, etc.). | Check if there are any other defective indoor units and verify if the indoor unit combination meets requirements. |
| | 31 | Wrong combination of units (multi-unit system) | Check the compatibility of unit types. |
| | 49 | Wrong combination of units (multi-unit system) | Check the compatibility of unit types. |
| UF | 01 | Defective automatic addressing (inconsistency) | Check if the quantity of connected units is below the maximum number of units that can be connected (through monitor mode) or if initiation is complete. |
| | 05 | Stop valve closed or defective (During system test operation) | Open the stop valve. |
| UH | 01 | Defective automatic addressing (inconsistency) | Check if the quantity of connected units is below the maximum number of units that can be connected (through monitor mode) or if initiation is complete. |
| A0 | 01 | External protection device abnormality | Check if 24 VAC power has been supplied to R and C terminals. Check if TB4 and TB5 terminals have not been opened. Check F1U fuse. |

No display on the remote controller

- Error in connection/communication among indoor unit remote controllers. Check if there is any disconnection or loosening of connectors.



Caution

For the plumber

For the electrician

Before giving the air conditioner back to the customer after a test operation, please make sure that the casing is securely in place and the screws are well fastened.

3.5 When Turning ON Power First Time

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

Status

| | |
|--------------|---|
| Outdoor unit | Test lamp H2P Blinks Can also be set during operation described above. |
| Indoor unit | If ON button is pushed during operation described above, the UH error indicator blinks. (Returns to normal when automatic setting is complete.) |

3.6 When Turning ON Power the Second Time and Subsequent

Tap the **RESET (BS5)** button on the outdoor unit PCB. Operation becomes possible for about 2 minutes. If you do not push the **RESET (BS5)** button, the unit cannot be run for up to 10 minutes to automatically set master power.

Status

| | |
|--------------|--|
| Outdoor unit | Test lamp H2P Blinks Can also be set during operation described above. |
| Indoor unit | If ON button is pushed during operation described above, the operation lamp lights but the compressor does not operate. (Returns to normal when automatic setting is complete.) |

3.7 When an Indoor Unit or Outdoor Unit has been Added, or Indoor or Outdoor Unit PCB has been Changed

Be sure to push and hold the **RESET (BS5)** button for 5 seconds. If not, the addition cannot be recognized. In this case, the unit cannot be run for up to 12 minutes to automatically set the address (indoor-outdoor address, etc.)

Status

| | |
|--------------|--|
| Outdoor unit | Test lamp H2P ON Can also be set during operation described above. |
| Indoor unit | If ON button is pushed during operation described above, the UH or U4 error indicator blinks. (Returns to normal when automatic setting is complete.) |

Part 6

Service Diagnosis

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1. Servicing Items to be Confirmed

1.1 Troubleshooting

(1) Initial verification and troubleshooting

1. Properly understand the end user's needs and issues.
2. Check the cause of errors according to the description provided by the end user.
3. Check if the remote controller displays any error codes.
(Or use the outdoor unit monitoring mode to check for errors).
4. If there is no display of error codes, refer to **Symptom-based Troubleshooting** on page 265 for diagnosis.
If an error code is displayed, refer to troubleshooting flowchart for diagnosis.

(2) Take appropriate measures.

1. Repair the defect or replace the parts according to the troubleshooting results.
2. Turn off the power supply for 10 minutes before disassembling.
3. The refrigerant has to be collected before refrigerant system components are replaced.

(3) Verification after taking appropriate measures

1. Run the unit after repairing the defect to confirm normal unit operation.
2. Record the check results and inform the client.

1.2 Precautions for Maintenance

Pay attention to the following matters in servicing.

(1) Precaution for maintenance

Touch the paint-free metal part of the product (electrical box lid of the standard model; tap bolts of electrical box of anti-corrosion and heavy anti-corrosion models) to release static electricity before starting work.

(2) Precautions for maintaining the service cover

After maintenance, make sure to close the service cover.

(Otherwise, leakage of water or contamination by foreign matter may cause defects)

(3) Precautions for maintaining the electrical box

1. Turn off the power for 10 minutes before opening the cover of the electrical box.
2. After opening the cover, use the tester to measure the terminal voltage of the power supply terminal to make sure that the power has been cut.
Then check if the circuit capacitor voltage is under 50 VDC.
3. To avoid PCB defects, touch the earth terminal of the electrical box with your hand when unplugging the connector to release static electricity.
4. Unplug the connectors X106A and X107A (30-48 class only), of the outdoor fan motor.
When unplugging the connectors, do not touch the live parts.
(When the outdoor fan is rotating because of strong wind, there is a risk of electric shock due to main circuit board capacitor power storage.)
5. After maintenance, reconnect the connectors of the outdoor fan in their original positions.
 - ♦ Otherwise, the remote controller will display error code **E7**, preventing normal operation.

(4) Precautions for piping work and refrigerant charging:

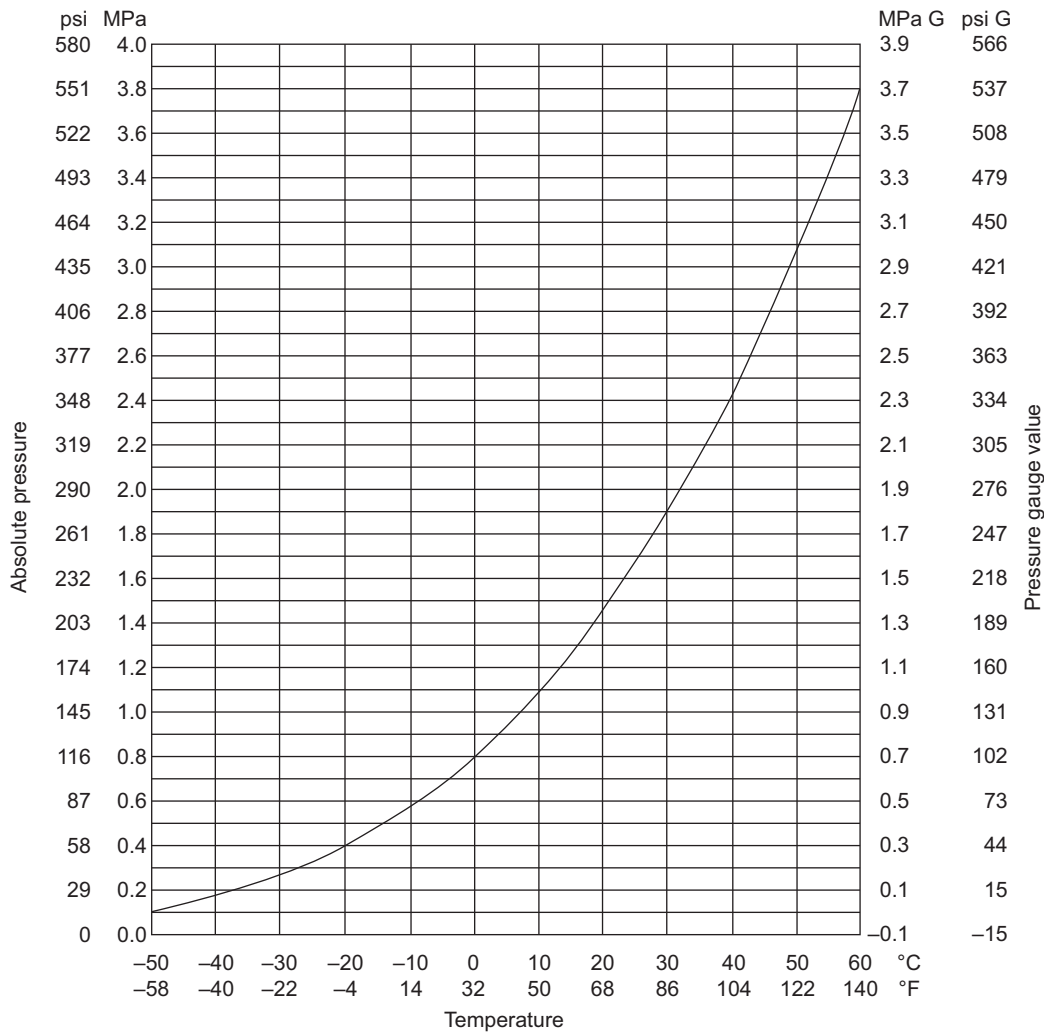
This unit uses R-410A refrigerant. Pay attention to the following conditions.

1. The charging pipe and the manifold tube use R-410A products for pressure maintenance and avoiding contamination by impurities (SUNISO oil, etc.).
2. Be sure to purge with nitrogen when brazing.
 - ◆ Properly perform airtightness test and vacuum drying. (Airtight test pressure: 4.0 MPa (580 psi))
 - ◆ Charge refrigerant in liquid state.

(5) Precautions for operating in servicing mode (field setting):

When a test operation is interrupted or after exiting service mode, please wait for at least one minute before entering service mode again. In case of continuous execution, the outdoor unit PCB may sometimes display an error code. If any error codes are displayed, press the **RETURN (BS3)** button. If performing the above operation still does not eliminate the error, reconnect the unit to the power supply.

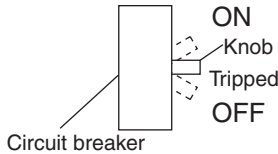
1.3 Refrigerant Properties (R-410A)



| Temperature | | Absolute Pressure | | Temperature | | Absolute Pressure | | Temperature | | Absolute Pressure | | Temperature | | Absolute Pressure | |
|-------------|-------|-------------------|------|-------------|------|-------------------|------|-------------|-------|-------------------|-----|-------------|-------|-------------------|-----|
| °C | °F | MPa | psi | °C | °F | MPa | psi | °C | °F | MPa | psi | °C | °F | MPa | psi |
| -50 | -58 | 0.11 | 16.0 | -20 | -4 | 0.40 | 58.0 | 10 | 50.0 | 1.09 | 158 | 40 | 104.0 | 2.42 | 351 |
| -48 | -54.4 | 0.12 | 17.4 | -18 | -0.4 | 0.43 | 62.4 | 12 | 53.6 | 1.15 | 167 | 42 | 107.6 | 2.54 | 368 |
| -46 | -50.8 | 0.13 | 18.9 | -16 | 3.2 | 0.46 | 66.7 | 14 | 57.2 | 1.22 | 177 | 44 | 111.2 | 2.67 | 387 |
| -44 | -47.2 | 0.15 | 21.8 | -14 | 6.8 | 0.50 | 72.5 | 16 | 60.8 | 1.29 | 187 | 46 | 114.8 | 2.80 | 406 |
| -42 | -43.6 | 0.16 | 23.2 | -12 | 10.4 | 0.54 | 78.3 | 18 | 64.4 | 1.37 | 199 | 48 | 118.4 | 2.93 | 425 |
| -40 | -40 | 0.18 | 26.1 | -10 | 14 | 0.57 | 82.7 | 20 | 68.0 | 1.45 | 210 | 50 | 122.0 | 3.07 | 445 |
| -38 | -36.4 | 0.19 | 27.6 | -8 | 17.6 | 0.61 | 88.5 | 22 | 71.6 | 1.53 | 222 | 52 | 125.6 | 3.21 | 466 |
| -36 | -32.8 | 0.21 | 30.5 | -6 | 21.2 | 0.66 | 95.7 | 24 | 75.2 | 1.61 | 234 | 54 | 129.2 | 3.36 | 487 |
| -34 | -29.2 | 0.23 | 33.4 | -4 | 24.8 | 0.70 | 102 | 26 | 78.8 | 1.70 | 247 | 56 | 132.8 | 3.51 | 509 |
| -32 | -25.6 | 0.25 | 36.3 | -2 | 28.4 | 0.75 | 109 | 28 | 82.4 | 1.79 | 260 | 58 | 136.4 | 3.64 | 528 |
| -30 | -22 | 0.27 | 39.2 | 0 | 32 | 0.80 | 116 | 30 | 86.0 | 1.89 | 274 | 60 | 140.0 | 3.83 | 555 |
| -28 | -18.4 | 0.29 | 42.1 | 2 | 35.6 | 0.85 | 123 | 32 | 89.6 | 1.99 | 289 | 62 | 143.6 | 4.00 | 580 |
| -26 | -14.8 | 0.32 | 46.4 | 4 | 39.2 | 0.91 | 132 | 34 | 93.2 | 2.09 | 303 | 64 | 147.2 | 4.17 | 605 |
| -24 | -11.2 | 0.34 | 49.3 | 6 | 42.8 | 0.96 | 139 | 36 | 96.8 | 2.20 | 319 | — | — | — | — |
| -22 | -7.6 | 0.37 | 53.7 | 8 | 46.4 | 1.02 | 148 | 38 | 100.4 | 2.31 | 335 | — | — | — | — |

2. Symptom-based Troubleshooting

2.1 Indoor Unit Overall

| | Symptom | Supposed Cause | Countermeasure | |
|---|--|---|---|---|
| 1 | The system does not start operation at all. | Blowout of fuse(s) | Turn OFF the power supply and then replace the fuse (s). | |
| | | Cutout of breaker(s) | <ul style="list-style-type: none"> • If the knob of any breaker is in its OFF position, turn ON the power supply. • If the knob of any circuit breaker is in its tripped position, do not turn ON the power supply.  <p>The diagram shows a vertical rectangular circuit breaker. To its right, a knob is shown in three positions: 'ON' at the top, 'Tripped' in the middle, and 'OFF' at the bottom. A dashed line indicates the knob's movement between these positions. The label 'Circuit breaker' points to the main body of the device.</p> | |
| | | Power failure | After the power failure is reset, restart the system. | |
| | | The connector loose or not fully plugged in | Turn off the power supply to verify the connection of the connector. | |
| 2 | The system starts operation but makes an immediate stop. | Blocked air inlet or outlet of indoor or outdoor unit | Remove obstacle(s). | |
| | | Clogged air filter(s) | Clean the air filter(s). | |
| 3 | The system does not cool or heat air well. | Blocked air inlet or outlet of indoor or outdoor unit | Remove obstacle(s). | |
| | | Clogged air filter(s) | Clean the air filter(s). | |
| | | Enclosed outdoor unit(s) | Remove the enclosure. | |
| | | Improper set temperature | Set the temperature to a proper degree. | |
| | | Airflow rate set to LOW | Set it to a proper airflow rate. | |
| | | Improper direction of air diffusion | Set it to a proper direction. | |
| | | Open window(s) or door(s) | Shut it tightly. | |
| | | IN COOLING Direct sunlight received | Hang curtains or shades on windows. | |
| | | IN COOLING Too many persons staying in a room | The model must be selected to match the air conditioning load. | |
| | | IN COOLING Too many heat sources (e.g. OA equipment) located in a room | | |
| | IN DRYING The reason is that the dry operation serves not to reduce the room temperature where possible. | Change the system to cooling operation. | | |
| 4 | The system does not operate. | The system stops and immediately restarts operation. | If the operation lamp on the remote controller turns ON, the system will be normal. These symptoms indicate that the system is controlled so as not to put unreasonable loads on the system. | |
| | | Pressing the temperature setting button immediately resets the system. | | |
| | | The remote controller displays CENTRAL CONTROL , which blinks for a period of several seconds when the OPERATION button is depressed. | The system is controlled with centralized controller. Blinking display indicates that the system cannot be operated using the remote controller. | Operate the system using the COOL/HEAT central remote controller. |
| | | The system stops immediately after turning ON the power supply. | The system is in preparation mode of microcomputer operation. | Wait for a period of approximately one minute. |
| 5 | The system makes intermittent stops. | The remote controller displays error codes U4 or U5 , and the system stops but restarts after a lapse of several minutes. | The system stops due to an interruption in communication between units caused by electrical noises coming from equipment other than air conditioners. | Remove causes of electrical noises. If these causes are removed, the system will automatically restart operation. |

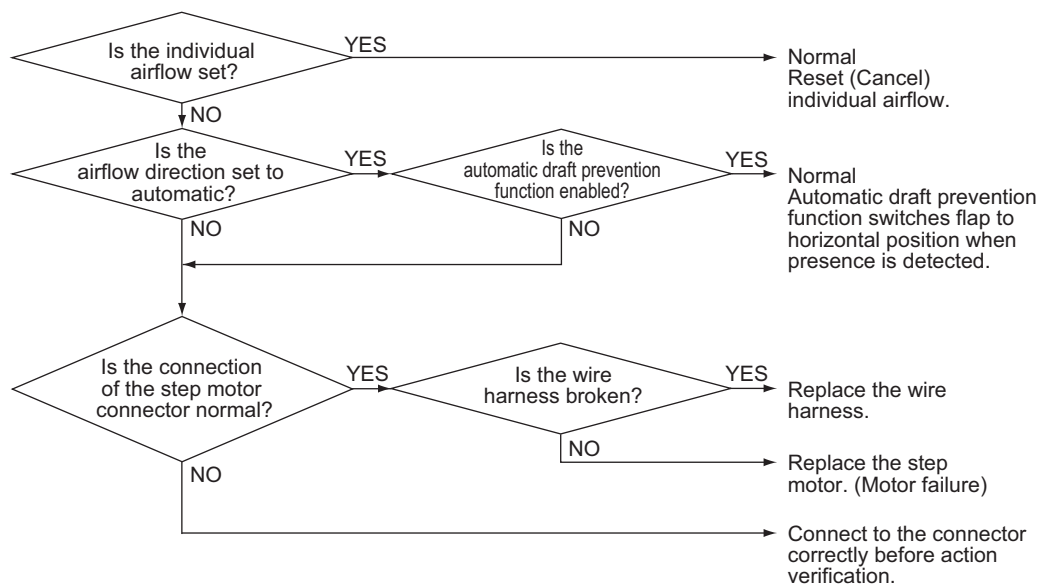
| | Symptom | Supposed Cause | Countermeasure | |
|----|---|--|--|--|
| 6 | COOL/HEAT selection is disabled. | The remote controller displays CENTRAL CONTROL . | This remote controller has no option to select cooling operation. | Use a remote controller with option to select cooling operation. |
| | | The remote controller displays CENTRAL CONTROL , and the COOL/HEAT selection remote controller is provided. | COOL/HEAT selection is made using the COOL/HEAT selection remote controller. | Use the COOL/HEAT selection remote controller to select cool or heat. |
| 7 | The system conducts fan operation but not cooling or heating operation. | This symptom occurs immediately after turning ON the power supply. | The system is in preparation mode of operation. | Wait for a period of approximately 10 minutes. |
| | | The remote controller displays CENTRAL CONTROL ; no cooling or heating operation is performed. Switch to fan operation. | In thermal storage operation, the unit is set to fan operation in cooling or heating operation, and the remote controller shows CENTRAL CONTROL . | Normal operation. |
| 8 | The airflow rate is not reproduced according to the setting. | Even pressing the airflow rate setting button makes no changes in the airflow rate. | In heating operation, when the room temperature reaches the set degree, the outdoor unit will stop while the indoor unit is brought to fan LL operation so that no one gets cold air. Furthermore, if fan operation mode is selected when other indoor unit is in heating operation, the system will be brought to fan LL operation. | Normal operation. |
| 9 | The airflow direction is not reproduced according to the setting. | The airflow direction is not corresponding to that displayed on the remote controller. The flap does not swing. | Automatic control | Normal operation. |
| 10 | A white mist comes out from the system. | Indoor unit In cooling operation, the ambient humidity is high. (This indoor unit is installed in a place with much oil or dust.) | Uneven temperature distribution due to heavy stain of the inside of the indoor unit | Clean the inside of the indoor unit. |
| | | Indoor unit Immediately after cooling operation stopping, the indoor air temperature and humidity are low. | Hot gas (refrigerant) that has flowed in the indoor unit results to be vapor from the unit. | Normal operation. |
| | | Indoor and outdoor units After the completion of defrost operation, the system is switched to heating operation. | Defrosted moisture turns to be vapor and comes out from the units. | Normal operation. |
| 11 | The system produces sounds. | Indoor unit Immediately after turning ON the power supply, indoor unit produces ringing sounds. | These are operating sounds of the electronic expansion valve of the indoor unit. | Normal operation. This sound becomes low after a lapse of approximately one minute. |
| | | Indoor and outdoor units Hissing sounds are continuously produced while in cooling or defrost operation. | These sounds are produced from gas (refrigerant) flowing respectively through the indoor and outdoor units. | Normal operation. |
| | | Indoor and outdoor units Hissing sounds are produced immediately after the startup or stop of the system, or the startup or stop of defrost operation. | These sounds are produced when the gas (refrigerant) stops or changes flowing. | Normal operation. |
| | | Indoor unit Faint sounds are continuously produced while in cooling operation or after stopping the operation. | These sounds are produced from the drain discharge device in operation. | Normal operation. |
| | | Indoor unit Creaking sounds are produced while in heating operation or after stopping the operation. | These sounds are produced from resin parts expanding and contracting with temperature changes. | Normal operation. |
| | | Outdoor unit Pitch of operating sounds changes. | The reason is that the compressor changes the operating frequency. | Normal operation. |

| | Symptom | | Supposed Cause | Countermeasure |
|----|---|--|--|---|
| 12 | Dust comes out from the system. | Dust comes out from the system when it restarts after the stop for an extended period of time. | Dust, which has deposited on the inside of indoor unit, is blown out from the system. | Normal operation. |
| 13 | Odors come out from the system. | In operation | Odors of room, cigarettes or else adsorbed to the inside of indoor unit are blown out. | The inside of the indoor unit should be cleaned. |
| 14 | Outdoor fan does not rotate. | In operation | The reason is that fan revolutions are controlled to put the operation to the optimum state. | Normal operation. |
| 15 | LCD display 88 or Checking the connection. Please stand by. appears on the remote controller. | Immediately after turning ON the power supply | The reason is that the system is checking to be sure the remote controller is normal. | Normal operation. This code is displayed for a period of approximately one minute at maximum. |
| 16 | The outdoor unit compressor or the outdoor fan does not stop. | After stopping operation | It stops in order to prevent oil or refrigerant from dwelling. | Normal operation. It stops after a lapse of approximately 5 to 10 minutes. |
| 17 | The outdoor gets hot. | While stopping operation | The reason is that the compressor is warmed up to provide smooth startup of the system. | Normal operation. |

2.2 With Infrared Presence/Floor Sensor

| | Condition | Measure |
|----|--|---|
| 1 | Louver operation different from setting or no downward airflow in heating operation | Refer to the flowchart below. |
| 2 | Individual airflow direction setting different from the actual airflow direction | Refer to the flowchart below. |
| 3 | While not operating, the louver does not close completely. | Turn off the circuit breaker and then turn it on again. |
| 4 | The remote controller menu does not display energy saving operating mode for when people are not present. | Refer to Infrared Presence/Floor Sensor Error (CE) on page 321. |
| | The remote controller menu does not display the stop function for when people are not present. | |
| | The remote controller menu does not display the automatic draft prevention function. | |
| 5 | The menu does not display the eco-friendly display function. | No defect. Set the clock. |
| 6 | During cooling and dry operation, the louver automatically switches from horizontal (P0) to one-level downward (P1). | No defect. When relative ambient humidity is higher, automatic louver control will be activated. |
| 7 | During heating operation, the use of an airflow block will not cause other louvers to turn downward (P4). | No defect. In heating operation, if an airflow block is set, then the air outlet control outdoor the airflow block will be within the range P0-P3. |
| 8 | When using airflow block, the airflow block will be routinely lifted (become horizontal) during heating operation. | No defect. Set louver to horizontal (P0) during thermostat OFF. |
| 9 | The infrared presence sensor determines that there is someone in the room while no one is there. | Check if there are any objects that generate temperature change when moving. For example: · An electric heater with swing function · Doors, curtains, blind switches · Output of paper from a fax machine or a printer · Turning on/off of incandescent lights · Moving objects |
| 10 | The infrared presence sensor determines that there is no one in the room while someone is there. | Check for the following conditions. · Lack of movement · Facing away from the sensor · Little skin exposed · Slight movement in a place far from the sensor |
| 11 | Large difference between floor temperature and actual temperature | Check for the following conditions. · Sensor detection zone affected by solar radiation · High or low temperature objects in the sensor detection zone · Large difference between floor temperature and temperature of the living space · Sensors installed near walls may be affected by wall temperature. |

Error diagnosis when the louver movement differs from the setting

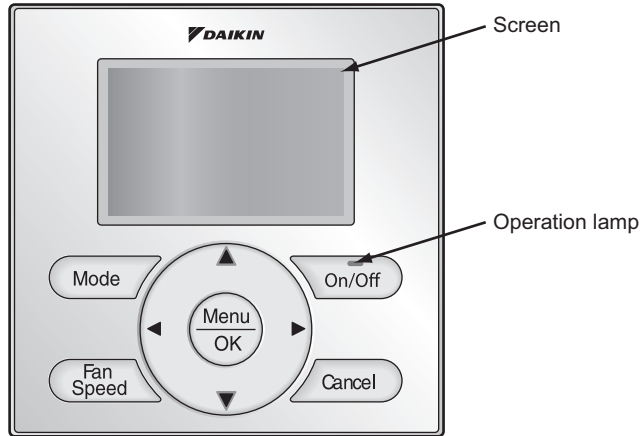


3. Error Code via Remote Controller

3.1 Wired Remote Controller

3.1.1 BRC1E73

The following will be displayed on the screen when an error (or a warning) occurs during operation. Check the error code and take the corrective action specified for the particular model.



(1) Check if it is an error or warning.

| | Operation Status | Display | |
|-------------------|-------------------------------------|--|--|
| Abnormal shutdown | The system stops operating. | The operation lamp (green) starts to blink. The message Error: Push Menu button will blink at the bottom of the screen. | |
| Warning | The system continues its operation. | The operation lamp (green) remains on. The message Warning: Push Menu button will blink at the bottom of the screen. | |

(2) Taking corrective action.

Press the **Menu/OK** button to check the error code.

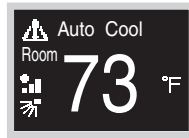



Take the corrective action specific to the model.

| | |
|--|--------------------------|
| Error Code:A6-01 | — Error code |
| Indoor Model FCQ18TAVJU Outdoor Model | └ Applicable model names |

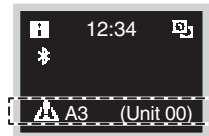
3.1.2 BRC1H71W


Home screen



When the indoor unit is in error, the controller will display  on the home screen.

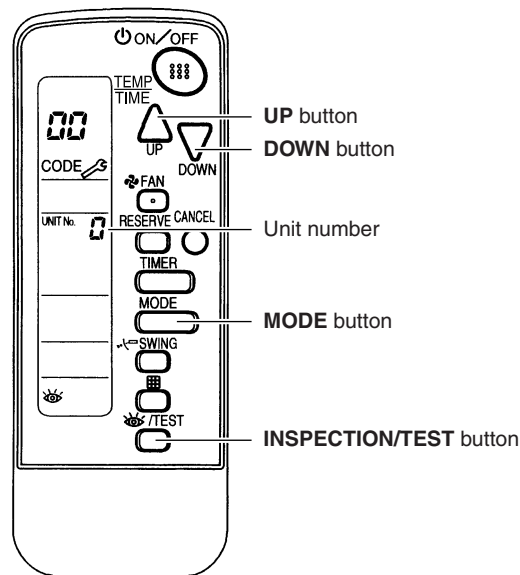
Information screen





Press and hold  on the Home screen for 5 seconds. The unit number and error code will be displayed at the bottom of the information screen.

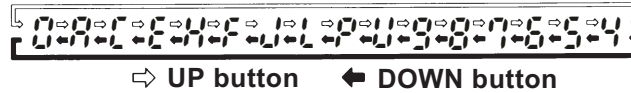
3.2 Wireless Remote Controller

If the unit stops due to an error, the operation indicating LED on the signal receiving part of indoor unit blinks. The error code can be determined by following the procedure described below. (The error code is displayed when an operation error has occurred. In normal condition, the error code of the last problem is displayed.)



1. Press **INSPECTION/TEST** button to enter inspection mode. Then the figure  blinks on the unit number display.
2. Press **UP** button or **DOWN** button and change the unit number until the receiver of the remote controller starts to beep.
 - 3 short beeps:** Follow all steps below.
 - 1 short beep:** Follow steps 3 and 4. Continue the operation in step 4 until you hear a continuous beep. This continuous beep indicates that the error code is confirmed.
 - Continuous beep:** There is no abnormality.
3. Press **MODE** button. The left  (upper digit) indication of the error code blinks.
4. Press **UP** button or **DOWN** button to change the error code upper digit until the receiver of the indoor unit starts to beep.

- The upper digit of the code changes as shown below.



Continuous beep: Both upper and lower digits match. (Error code is confirmed.)

2 short beeps: The upper digit matches but the lower digit does not.

1 short beep: The upper digit does not match.

5. Press **MODE** button. The right (lower digit) indication of the error code blinks.
6. Press **UP** button or **DOWN** button and change the error code lower digit until the receiver of the indoor unit generates a continuous beep.

- The lower digit of the code changes as shown below.

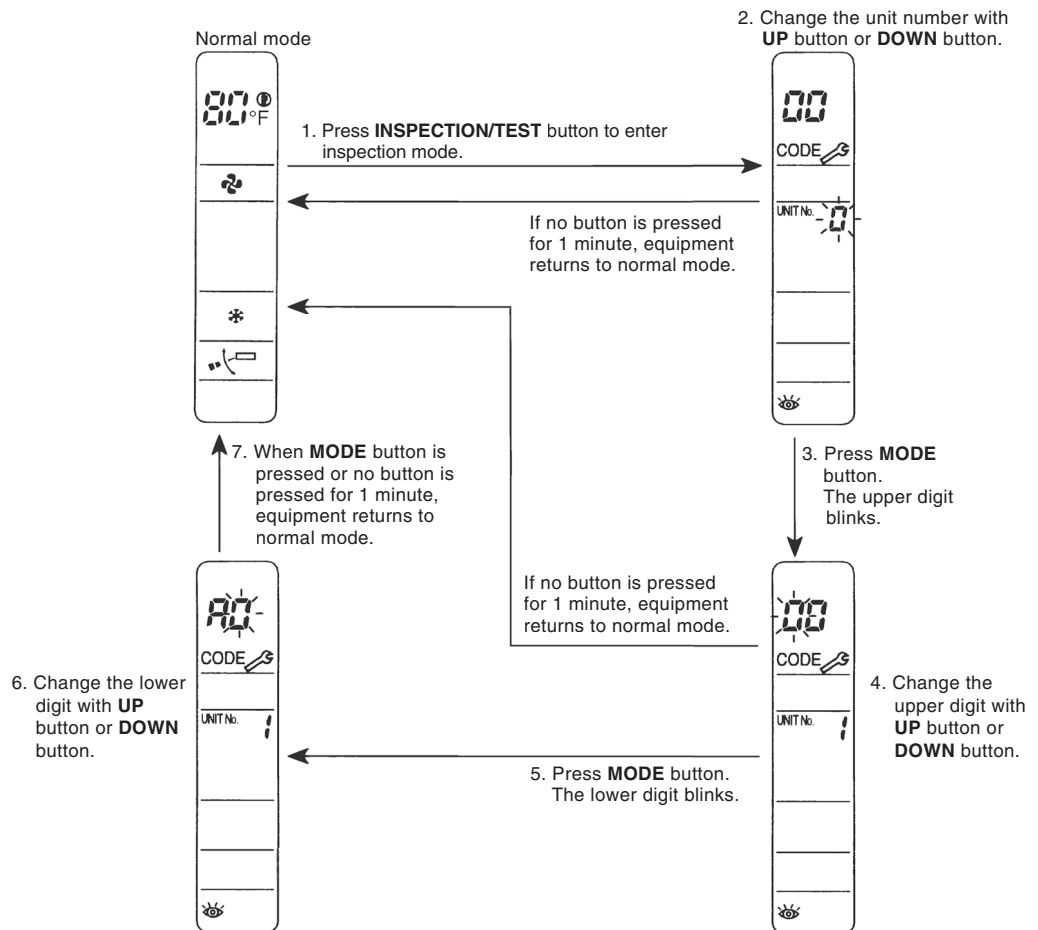


Continuous beep: Both upper and lower digits match. (Error code is confirmed.)

2 short beeps: The upper digit matches but the lower digit does not.

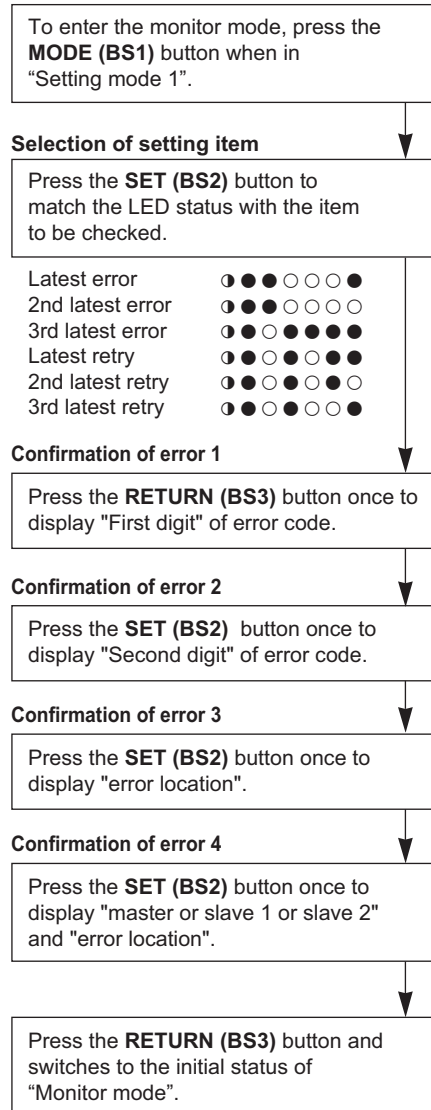
1 short beep: The upper digit does not match.

7. Press **MODE** button to return to the normal mode. If you do not press any button for 1 minute, the remote controller automatically returns to the normal mode.



4. Error Code Indication by Outdoor Unit PCB

Monitor mode



* Press the **MODE (BS1)** button and return to "Setting mode 1".

Detailed description on next page.

| Error Description | | Error Code |
|---|---|------------------------------------|
| PCB abnormality | | E1 |
| Abnormal high pressure switch | High pressure switch activated | E3 |
| Abnormal low pressure switch | Low pressure switch activated | E4 |
| Compressor lock | Detection of inverter compressor lock | E5 |
| Overload, overcurrent, abnormal lock of outdoor fan motor | Detection of DC fan 1 motor lock | E7 |
| | Detection of DC fan 2 motor lock | |
| Electronic expansion valve abnormality | Main | E9 |
| | Subcooling | |
| Abnormal discharge pipe temperature | Abnormal Tdi | F3 |
| | Overload protector activated | |
| Abnormal heat exchanger temperature | Refrigerant overcharge | F6 |
| Defective thermistor of outdoor air temperature | Defective Ta sensor (short) | H9 |
| Defective discharge pipe thermistor | Defective Tdi sensor (short) | J3 |
| Defective suction pipe thermistor | Defective Ts1 sensor (short) | J5 |
| | Defective Ts2 sensor (short) | |
| Defective outdoor heat exchanger deicer thermistor | Defective Tb sensor (short) | J6 |
| Defective outdoor heat exchanger liquid pipe thermistor | Defective Tl sensor (short) | J7 |
| Defective subcooling heat exchanger gas pipe thermistor | Defective Tsh sensor (short) | J9 |
| Defective sensor of high pressure | Defective Pc sensor (short) | JA |
| Defective sensor of low pressure | Defective Pe sensor (short) | JC |
| Defective PCB (for inverter compressor) | Defective IPM | L1 |
| | Abnormal current sensor offset | |
| | Abnormal IGBT | |
| | Defective current sensor | |
| | Abnormal SP-PAM overvoltage | |
| | Abnormal Interleave | |
| Inverter radiation fin temperature rising | Overheating of inverter radiation fin temperature | L4 |
| | DC output overcurrent | Inverter instantaneous overcurrent |
| Electronic thermal | Electronic thermal switch 1 | L8 |
| | Electronic thermal switch 2 | |
| | Out-of-step | |
| | Speed down after startup | |
| Stall prevention (Limit time) | Lightening detection | L9 |
| | Stall prevention (Current increasing) | |
| | Stall prevention (Defective start up) | |
| | Abnormal wave form in startup | |
| Transmission error (Between microcomputers on the outdoor main PCB) | Out-of-step | LC |

○: ON ●: OFF ◐: Blink

| Error Code | Confirmation of Error 1 | | | | | | | Confirmation of Error 2 | | | | | | | Confirmation of Error 3 | | | | | | | Confirmation of Error 4 | | | | | | |
|------------|-------------------------|-----|-----|-----|-----|-----|-----|-------------------------|-----|-----|-----|-----|-----|-----|-------------------------|-----|-----|-----|-----|-----|-----|-------------------------|-----|-----|-----|-----|-----|-----|
| | H1P | H2P | H3P | H4P | H5P | H6P | H7P | H1P | H2P | H3P | H4P | H5P | H6P | H7P | H1P | H2P | H3P | H4P | H5P | H6P | H7P | H1P | H2P | H3P | H4P | H5P | H6P | H7P |
| E1 | ◐ | ◐ | ● | ● | ● | ◐ | ◐ | ◐ | ● | ○ | ● | ● | ● | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | ◐ | ◐ |
| E3 | | | | | | | | ◐ | ● | ○ | ● | ● | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| E4 | | | | | | | | ◐ | ● | ○ | ● | ◐ | ● | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| E5 | | | | | | | | ◐ | ● | ○ | ● | ◐ | ● | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| E7 | | | | | | | | ◐ | ● | ○ | ● | ◐ | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| E9 | | | | | | | | ◐ | ● | ○ | ◐ | ● | ● | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| F3 | ◐ | ◐ | ● | ● | ◐ | ● | ◐ | ◐ | ● | ○ | ● | ● | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| F6 | | | | | | | | ◐ | ● | ○ | ● | ◐ | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| H9 | ◐ | ◐ | ● | ● | ◐ | ● | ◐ | ◐ | ● | ○ | ◐ | ● | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| J3 | ◐ | ◐ | ● | ● | ◐ | ◐ | ◐ | ◐ | ● | ○ | ● | ● | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| J5 | | | | | | | | ◐ | ● | ○ | ● | ◐ | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| J6 | | | | | | | | ◐ | ● | ○ | ● | ◐ | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| J7 | | | | | | | | ◐ | ● | ○ | ● | ◐ | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| J9 | | | | | | | | ◐ | ● | ○ | ◐ | ● | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| JA | | | | | | | | ◐ | ● | ○ | ◐ | ● | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| JC | | | | | | | | ◐ | ● | ○ | ◐ | ◐ | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| L1 | ◐ | ◐ | ● | ● | ◐ | ◐ | ◐ | ◐ | ● | ○ | ● | ● | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | ◐ | ◐ |
| L4 | | | | | | | | ◐ | ● | ○ | ● | ◐ | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| L5 | | | | | | | | ◐ | ● | ○ | ● | ◐ | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| L8 | | | | | | | | ◐ | ● | ○ | ◐ | ● | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| L9 | | | | | | | | ◐ | ● | ○ | ◐ | ● | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |
| LC | | | | | | | | ◐ | ● | ○ | ◐ | ◐ | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | | |

Display of error description (first digit)

Display of error description (second digit)

Display 1 of error in detail

Display 2 of error in detail

*1

| | | |
|---|---|--------|
| ● | ● | Master |
| ● | ◐ | Slave1 |
| ◐ | ● | Slave2 |
| ◐ | ◐ | System |

Monitor mode

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

Selection of setting item

Press the **SET (BS2)** button to match the LED status with the item to be checked.

- Latest error ●●●○○●
- 2nd latest error ●●●○○○
- 3rd latest error ●●○○●●●
- Latest retry ●●○○●●●
- 2nd latest retry ●●○○●○○
- 3rd latest retry ●●○○●○○

Confirmation of error 1

Press the **RETURN (BS3)** button once to display "First digit" of error code.

Confirmation of error 2

Press the **SET (BS2)** button once to display "Second digit" of error code.

Confirmation of error 3

Press the **SET (BS2)** button once to display "error location".

Confirmation of error 4

Press the **SET (BS2)** button once to display "master or slave 1 or slave 2" and "error location".

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

* Press the **MODE (BS1)** button and return to "Setting mode 1".

Detailed description on next page.

| Error Description | | Error Code |
|--|--|------------|
| Inverter circuit capacitor high voltage | Imbalance of inverter power supply voltage | P1 |
| Defective temperature sensor of inverter radiation fin | Defective thermistor of inverter fin | P4 |
| Refrigerant shortage | Refrigerant shortage alarm | U0 |
| | Liquid pipe temperature abnormality | |
| Abnormal power supply voltage | Insufficient Inverter voltage | U2 |
| | Open phase in inverter (Phase T) | |
| | Error due to SP-PAM overvoltage | |
| | Error due to P-N short circuit | |
| No implementation of test-run | | U3 |
| Transmission error between indoor and outdoor unit | I/O transmission error | U4 |
| | Indoor unit system error | |
| Transmission error of other system | Indoor unit system abnormal in other system or other indoor unit system abnormal in own system | U9 |
| Erroneous field setting | System transmission error | UA |
| | Overconnection error of indoor units | |
| | Error of field setting | |
| | Refrigerant abnormal | |
| | Connection error (BP unit) | |
| Conflict in wiring and piping, no setting for system | Conflict in wiring and piping | UF |
| Defective system | Wiring error (Auto-address error) | UH |

○: ON ●: OFF ◐: Blink

| Error Code | Confirmation of Error 1 | | | | | | | Confirmation of Error 2 | | | | | | | Confirmation of Error 3 | | | | | | | Confirmation of Error 4 | | | | | | |
|------------|-------------------------|-----|-----|-----|-----|-----|-----|-------------------------|-----|-----|-----|-----|-----|-----|-------------------------|-----|-----|-----|-----|-----|-----|-------------------------|-----|-----|-----|-----|-----|-----|
| | H1P | H2P | H3P | H4P | H5P | H6P | H7P | H1P | H2P | H3P | H4P | H5P | H6P | H7P | H1P | H2P | H3P | H4P | H5P | H6P | H7P | H1P | H2P | H3P | H4P | H5P | H6P | H7P |
| P1 | ◐ | ◐ | ● | ◐ | ● | ● | ● | ◐ | ● | ○ | ● | ● | ● | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | ● | ● |
| P4 | | | | | | | | ◐ | ● | ○ | ● | ◐ | ● | ● | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | ● | ● |
| U0 | ◐ | ◐ | ● | ◐ | ● | ● | ◐ | ◐ | ● | ○ | ● | ● | ● | ● | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | ● | ◐ |
| U2 | | | | | | | | ◐ | ● | ○ | ● | ● | ◐ | ● | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | ● | ● |
| U3 | | | | | | | | ◐ | ● | ○ | ● | ● | ◐ | ● | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | ● | ◐ |
| U4 | | | | | | | | ◐ | ● | ○ | ● | ◐ | ● | ● | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | ● | ◐ |
| U9 | | | | | | | | ◐ | ● | ○ | ◐ | ● | ● | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | ● | ◐ |
| UA | | | | | | | | ◐ | ● | ○ | ◐ | ● | ◐ | ● | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | ● | ◐ |
| UF | | | | | | | | ◐ | ● | ○ | ◐ | ◐ | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | ● | ◐ |
| UH | | | | | | | | ◐ | ● | ○ | ◐ | ● | ◐ | ◐ | ◐ | ○ | ● | ● | ● | ● | ● | ◐ | ○ | ○ | ● | ● | ● | ◐ |

Display of error description (first digit)

Display of error description (second digit)

Display 1 of error in detail

Display 2 of error in detail

*1

| | | |
|---|---|--------|
| ● | ● | Master |
| ● | ◐ | Slave1 |
| ◐ | ● | Slave2 |
| ◐ | ◐ | System |

5. Troubleshooting by Error Codes

5.1 Error Codes and Description

○: ON ●: OFF◐: Blink

| | Error code | Operation lamp | Description | Reference Page |
|-------------|------------|--|---|----------------|
| Indoor Unit | A0 | ● | External protection device abnormality | 279 |
| | | | External protection device abnormality (FTQ-TA, FTQ-TB only) | 280 |
| | A1 | ● | Indoor unit PCB abnormality | 281 |
| | A3 | ● | Drain level control system (S1L) abnormality | 282 |
| | A6 | ● | Indoor fan motor (M1F) lock, overload | 284 |
| | | | Indoor fan motor abnormality | 286 |
| | | | Blower motor not running (FTQ-TA, FTQ-TB only) | 292 |
| | | | Indoor fan motor status abnormality (FTQ-TA, FTQ-TB only) | 293 |
| | | | Low indoor airflow (FTQ-TA, FTQ-TB only) | 294 |
| | A7★ | ○ | Swing flap motor abnormality | 295 |
| | A8 | ● | Power supply voltage abnormality | 297 |
| | | | Blower motor stops for over/under voltage (FTQ-TA, FTQ-TB only) | 298 |
| | A9 | ● | Electronic expansion valve coil abnormality, dust clogging | 299 |
| | AF★ | ○ | Drain level above limit | 300 |
| | AH | ● | Self-cleaning decoration panel abnormality | 301 |
| | AJ | ● | Defective capacity setting | 312 |
| | C1 | ● | Transmission abnormality (between indoor unit PCB and fan PCB) | 313 |
| | | | Blower motor communication error (FTQ-TA, FTQ-TB only) | 315 |
| | C4 | ● | Heat exchanger liquid pipe thermistor abnormality | 316 |
| | C5 | ● | Heat exchanger gas pipe thermistor abnormality | 316 |
| | C6 | ● | Combination abnormality (between indoor unit PCB and fan PCB) | 317 |
| | | | Blower motor HP mismatch (FTQ-TA, FTQ-TB only) | 318 |
| | | | Indoor blower does not have required parameters to function (FTQ-TA, FTQ-TB only) | 319 |
| C9 | ● | Suction air thermistor abnormality | 316 | |
| | | Remote sensor abnormality | 320 | |
| CA | ○ | Discharge air thermistor abnormality | 316 | |
| CE★ | ○ | Infrared presence/floor sensor error | 321 | |
| CJ (*1) | ○ | Remote controller thermistor abnormality | 326 | |

| | Error code | Operation lamp | Description | Reference Page |
|--------------|------------|--------------------------------------|--|----------------|
| Outdoor Unit | E1 | ● | Outdoor main PCB abnormality | 327 |
| | E3 | ● | Activation of high pressure switch | 328 |
| | E4 | ● | Activation of low pressure sensor | 330 |
| | E5 | ● | Compressor motor lock | 332 |
| | E7 | ● | Outdoor fan motor abnormality | 334 |
| | E9 | ● | Electronic expansion valve coil abnormality | 336 |
| | F3 | ● | Discharge pipe temperature abnormality | 337 |
| | F6 | ● | Refrigerant overcharged | 339 |
| | H9 | ● | Outdoor air thermistor abnormality | 340 |
| | J3 | ● | Discharge pipe thermistor abnormality | 340 |
| | J5 | ● | Suction pipe thermistor abnormality | 340 |
| | J6 | ● | Outdoor heat exchanger deicer thermistor abnormality | 340 |
| | J7 | ● | Outdoor heat exchanger liquid pipe thermistor abnormality | 340 |
| | J9 | ● | Subcooling heat exchanger gas pipe thermistor abnormality | 340 |
| | JA | ● | High pressure sensor abnormality | 341 |
| | JC | ● | Low pressure sensor abnormality | 342 |
| | L1 | ● | Inverter PCB abnormality | 343 |
| | L4 | ● | Radiation fin temperature rise abnormality | 344 |
| | L5 | ● | Compressor instantaneous overcurrent | 345 |
| | L8 | ● | Compressor overcurrent | 346 |
| | L9 | ● | Compressor startup abnormality | 347 |
| | LC | ● | Transmission error between microcomputers on outdoor unit main PCB | 348 |
| | P1 | ● | Inverter circuit capacitor high voltage | 349 |
| P4★ | ○ | Radiation fin thermistor abnormality | 350 | |
| System | U0★ | ○ | Refrigerant shortage | 351 |
| | U2 | ● | Power supply insufficient or instantaneous abnormality | 353 |
| | U3 | ● | Check operation not executed | 355 |
| | U4 | ● | Transmission error between indoor units and outdoor units | 356 |
| | U5 | ● | Transmission error between remote controller and indoor unit | 358 |
| | U8 | ● | Transmission error between main and sub remote controllers | 359 |
| | U9 | ● | Transmission error between indoor and outdoor units in the same system | 360 |
| | UA | ● | Improper combination of indoor and outdoor units, indoor units and remote controller | 361 |
| | | | Incorrect electric heater capacity setting (FTQ-TA, FTQ-TB only) | 363 |
| | UC★ | ○ | Address duplication of centralized controller | 364 |
| | UE | ● | Transmission error between centralized controller and indoor unit | 365 |
| | UF | ● | System not set | 366 |
| | UH | ● | System abnormality, refrigerant system address undefined | 367 |

★: In the case of error codes identified, system operation continues, however, be sure to check and repair.



Note(s)

*1. The system may continue operation depending on the conditions.

5.2 Error Codes (Sub Codes)

If an error code like the one shown below is displayed when a wired remote controller is in use, make a detailed diagnosis.

5.2.1 Indoor Unit

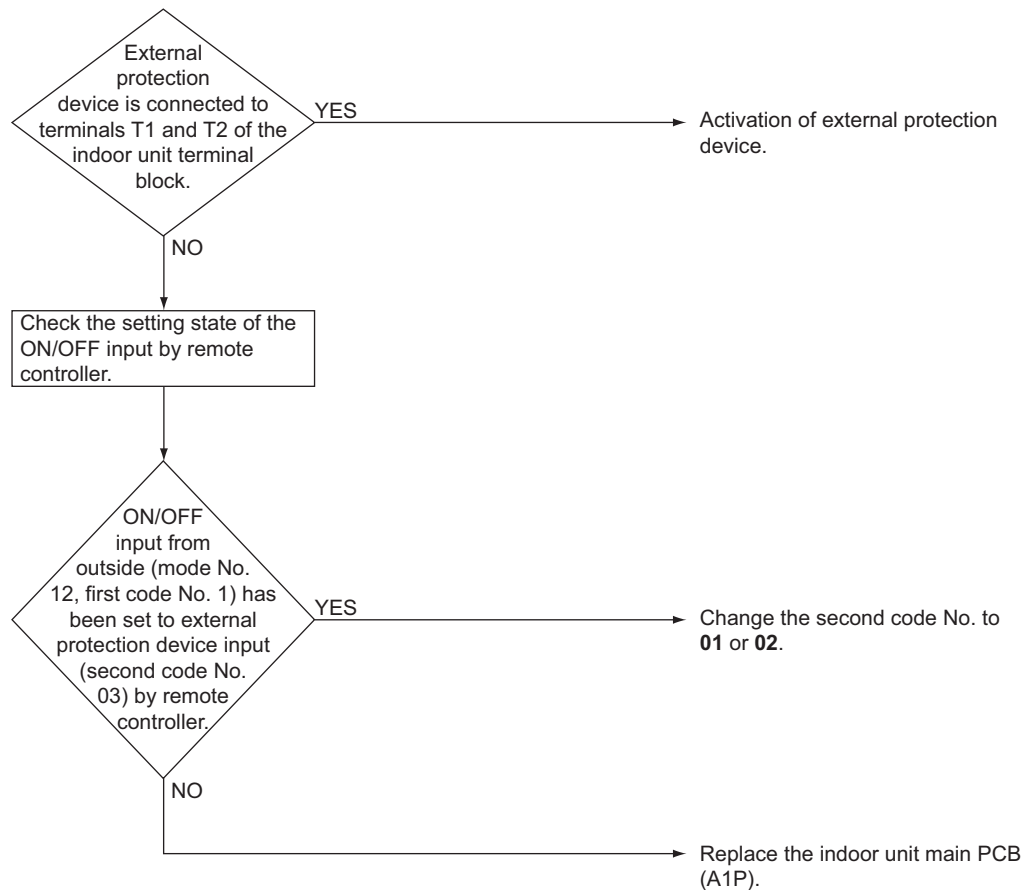
| Error code | Troubleshooting | |
|------------|--|---|
| | Description of error | Description of diagnosis |
| A0 - 01 | External protection device abnormality | Refer to page 280. |
| A6 - 01 | Fan motor locked | A locked fan motor current has been detected. Turn the fan by hand to check for the connection of connectors. |
| A6 - 10 | Fan overcurrent error | A fan motor overcurrent has been detected. Check for the connection of the connector between the fan motor and the fan PCB. If the connection is normal, replace the fan motor. If this still cannot solve the error, replace the fan PCB. |
| A6 - 11 | Fan position detection error | An error in the detection of position of the fan motor. Check for the connection of the connector between the fan motor and the fan PCB. If the connection is normal, replace the fan motor. If this still cannot solve the error, replace the fan PCB. |
| A6 - 20 | Indoor fan motor status abnormality | Refer to page 293. |
| A6 - 21 | Low indoor airflow | Refer to page 294. |
| A8 - 01 | Power supply voltage error | Check for the input voltage of the fan motor. |
| A9 - 01 | Electronic expansion valve error | There is an error in the electronic expansion valve coil or a connector disconnected. |
| A9 - 02 | Refrigerant leakage detection error | Refrigerant leaks even if the electronic expansion valve is closed. Replace the electronic expansion valve. |
| AH - 03 | Transmission error (between the self-cleaning decoration panel and the indoor unit) (when the self-cleaning decoration panel is mounted) | Check for the connection of the harness connector between the panel PCB and the indoor unit PCB. |
| AH - 04 | Dust detection sensor error (when the self-cleaning decoration panel is mounted) | Check for the connections of the connector X12A on the panel PCB and the connectors X18A and X19A on the sensor PCB. |
| AH - 05 | Dust collection sign error (when the self-cleaning decoration panel is mounted) | Check for clogging with dust at the dust collection port as well as in the brush unit, S-shaped pipe, and dust box. Furthermore, check for any stains of the light receiving and emitting parts of the infrared unit. |
| AH - 06 | Air filter rotation error (when the self-cleaning decoration panel is mounted) | Check for anything getting in the way of rotating the filter (e.g. the filter comes off or the drive gear is clogged with foreign matter). |
| AH - 07 | Damper rotation error (when the self-cleaning decoration panel is mounted) | The damper does not rotate normally. Check for any foreign matter around the damper and for the operation of the gear and limit switch. |
| AH - 08 | Filter auto clean operation error (when the self-cleaning decoration panel is mounted) | The unit has not yet completed the filter auto clean operation even after the lapse of specified period of time. Check for any external noise, etc. |
| AH - 09 | Filter auto clean operation start disabled error (when the self-cleaning decoration panel is mounted) | The unit has been put into a state in which the filter auto clean operation is disabled. Check the unit for the operating conditions. |
| AJ - 01 | Capacity setting error | There is an error in the capacity setting of the indoor unit PCB. |
| AJ - 02 | Electronic expansion valve setting error | There is a fault in the setting of the gear type electronic expansion valve/direct acting type electronic expansion valve. |
| C1 - 01 | Transmission abnormality between indoor unit PCB and fan PCB | Check for the conditions of transmission between the indoor unit PCB and the fan PCB. |
| C1 - 07 | Blower motor communication error | Refer to page 315. |
| C6 - 01 | Defective combination of indoor unit PCB and the fan PCB | A combination of indoor unit PCB and the fan PCB is defective. Check whether the capacity setting adaptor is correct and the type of the fan PCB is correct. |
| | Blower motor HP mismatch | Refer to page 318. |
| C6 - 02 | Indoor blower does not have required parameters to function | Refer to page 319. |
| U4 - 01 | Indoor-outdoor transmission error | Refer to the U4 flowchart. |
| UA - 13 | Refrigerant type error | The type of refrigerant used for the indoor unit is different from that used for the outdoor unit. |
| UA - 15 | Not applicable for self-cleaning decoration panel [when the self-cleaning decoration panel is mounted] | An outdoor unit is not applicable for the self-cleaning decoration panel is connected. |
| UA - 17 | Incorrect electric heater capacity setting | Refer to page 363. |

5.3 External Protection Device Abnormality (Except FTQ-TA, FTQ-TB)

| | |
|----------------------------------|---|
| Error Code | A0 |
| Applicable Models | All indoor models (except FTQ-TA, FTQ-TB) |
| Method of Error Detection | Detect open or short circuit between external input terminals in indoor unit. |
| Error Decision Conditions | When an open circuit occurs between external input terminals with the remote controller set for external ON/OFF terminal. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Activation of external protection device ■ Improper field setting ■ Defective indoor unit PCB |
| Troubleshooting | |

**Caution**

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



5.4 External Protection Device Abnormality (FTQ-TA, FTQ-TB Only)

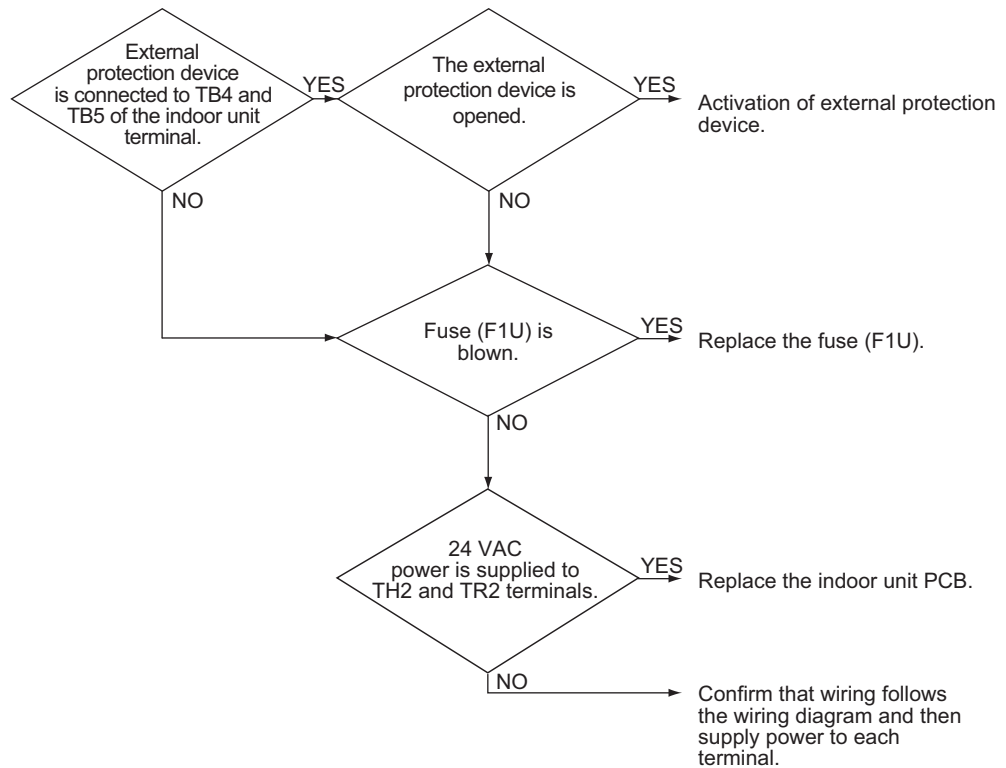
| | |
|----------------------------------|--|
| Error Code | A0-01 |
| Applicable Models | FTQ-TA, FTQ-TB |
| Method of Error Detection | Detect open or short circuit between external input terminals in indoor unit. |
| Error Decision Conditions | When an open circuit occurs between external input terminals. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Activation of external protection device ■ Defective indoor unit PCB ■ Indoor unit fuse blown ■ 24 VAC power is not supplied to TH2 and TR2 terminals on the indoor unit PCB. |

Troubleshooting



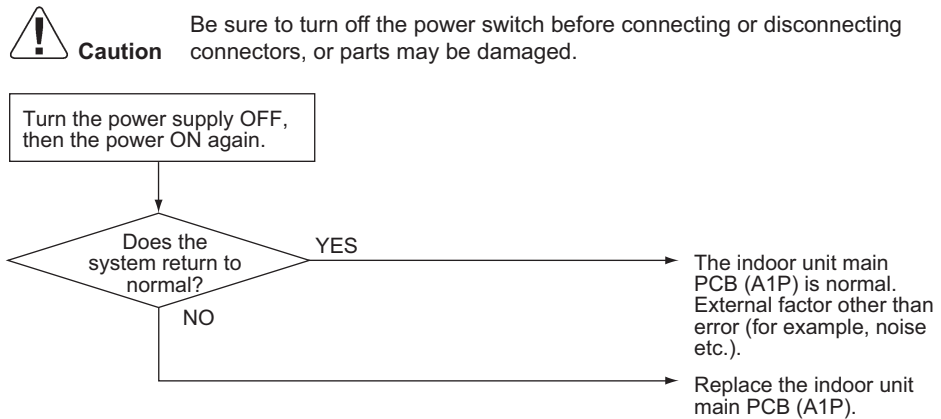
Caution

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



5.5 Indoor Unit PCB Abnormality

| | |
|----------------------------------|---|
| Error Code | A1 |
| Applicable Models | All indoor models |
| Method of Error Detection | Data from EEPROM is checked. |
| Error Decision Conditions | When data cannot be correctly received from the EEPROM EEPROM: Type of nonvolatile memory. Maintains memory contents even when the power supply is turned OFF. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Defective indoor unit PCB ■ External factor (Noise etc.) |
| Troubleshooting | |



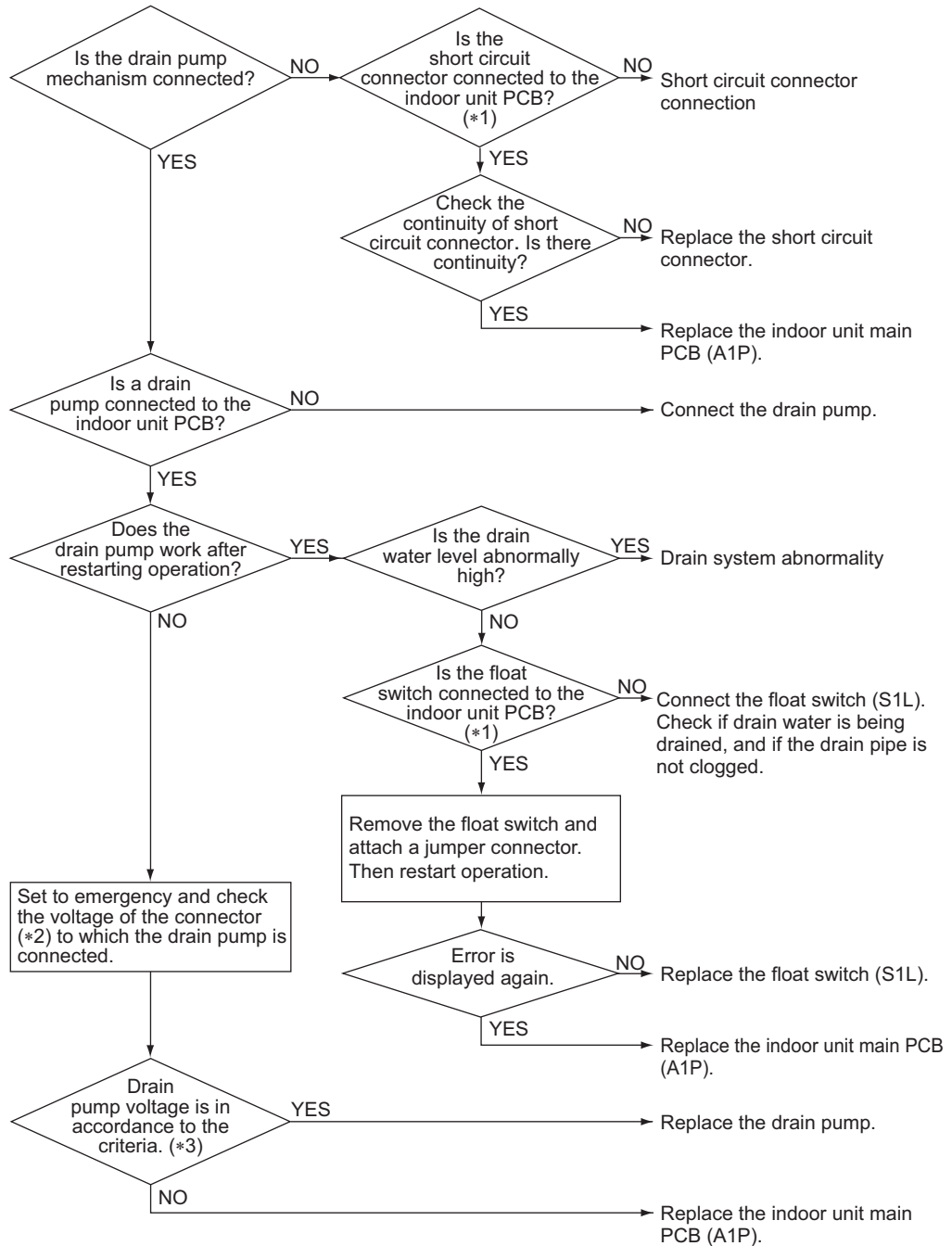
5.6 Drain Level Control System (S1L) Abnormality

| | |
|----------------------------------|---|
| Error Code | A3 |
| Applicable Models | FCQ-TA, FCQ-AA, FBQ-P, FBQ-TB |
| Method of Error Detection | By float switch OFF detection |
| Error Decision Conditions | When the float switch goes OFF when conditions for rise of water level are not met |
| Supposed Causes | <ul style="list-style-type: none">■ Defective drain pump■ Improper drain piping work■ Drain piping clogging■ Defective float switch■ Defective indoor unit PCB■ Defective short circuit connector on PCB |

Troubleshooting



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



i Note(s)

| Model | *1: Float switch (S1L) / short circuit connector | *2: Drain pump (M1P) connector | *3: Drain pump (M1P) voltage |
|--------|--|--------------------------------|------------------------------|
| FCQ-TA | X15A | X10A | 13 VDC |
| FCQ-AA | X15A | X25A | 13 VDC |
| FBQ-P | X15A | X25A | 220-240 VAC |
| FBQ-TB | X15A | X25A | 13 VDC |

Note: If a PCB that does not have X15A connector detects **A3** error code, the PCB is defective.

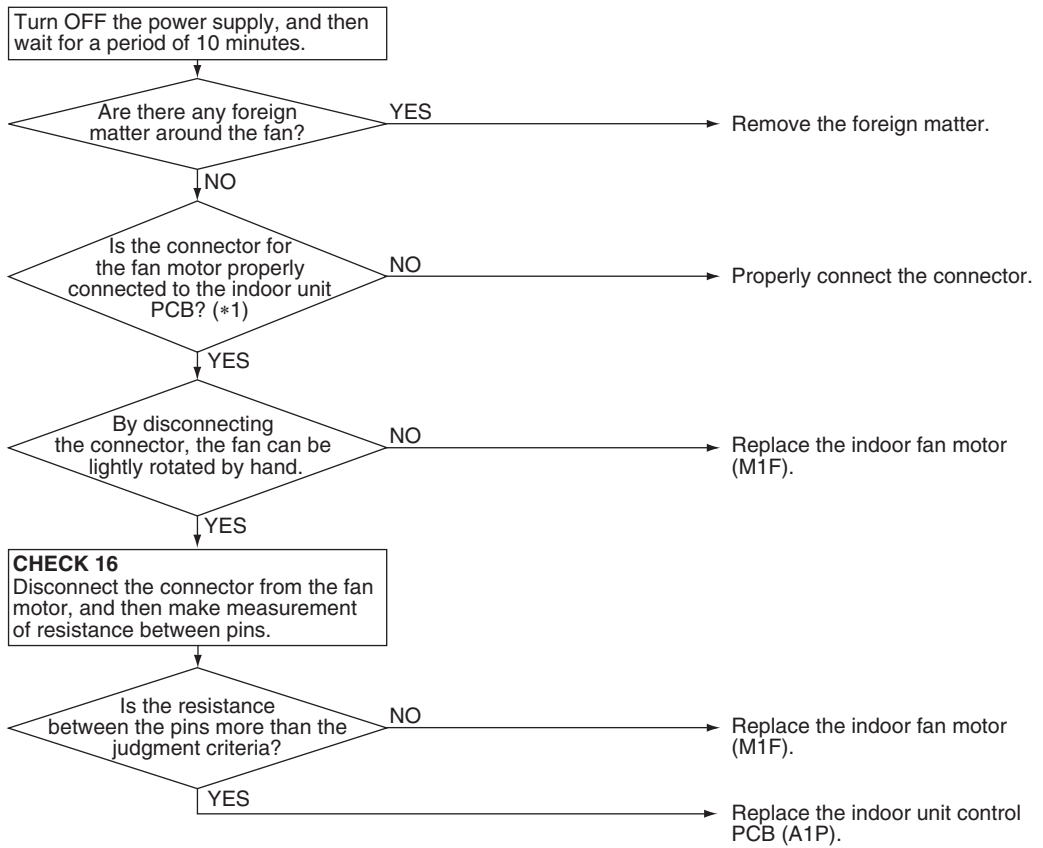
5.7 Indoor Fan Motor (M1F) Lock, Overload

| | |
|----------------------------------|--|
| Error Code | A6 |
| Applicable Models | FCQ-TA, FAQ-TA, FBQ18/24TB |
| Method of Error Detection | Abnormal fan revolutions are detected by signal output from the fan motor. |
| Error Decision Conditions | When the fan revolutions do not increase |
| Supposed Causes | <ul style="list-style-type: none"> ■ Broken wires in, short circuit of, or disconnection of connectors from the fan motor harness ■ Defective fan motor (Broken wires or defective insulation) ■ Abnormal signal output from the fan motor (defective circuit) ■ Defective indoor unit main PCB ■ Instantaneous disturbance in the power supply voltage ■ Fan motor lock (Due to motor or external causes) ■ The fan does not rotate due to foreign matter blocking the fan. ■ Disconnection of the connector between the indoor unit PCB (A1P) and the fan PCB (A2P) (FBQ18/24TB only) ■ Blowout of the fuse connected between the indoor unit PCB and the fan motor harness (FAQ-TA only) |

Troubleshooting



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



Note(s)

*1. Check the following connectors.

| Model | Connector | PCB |
|------------|-----------------------|-----|
| FCQ-TA | X20A, Relay connector | A1P |
| FAQ-TA | X20A | A1P |
| FBQ18/24TB | X8A | A2P |



Reference

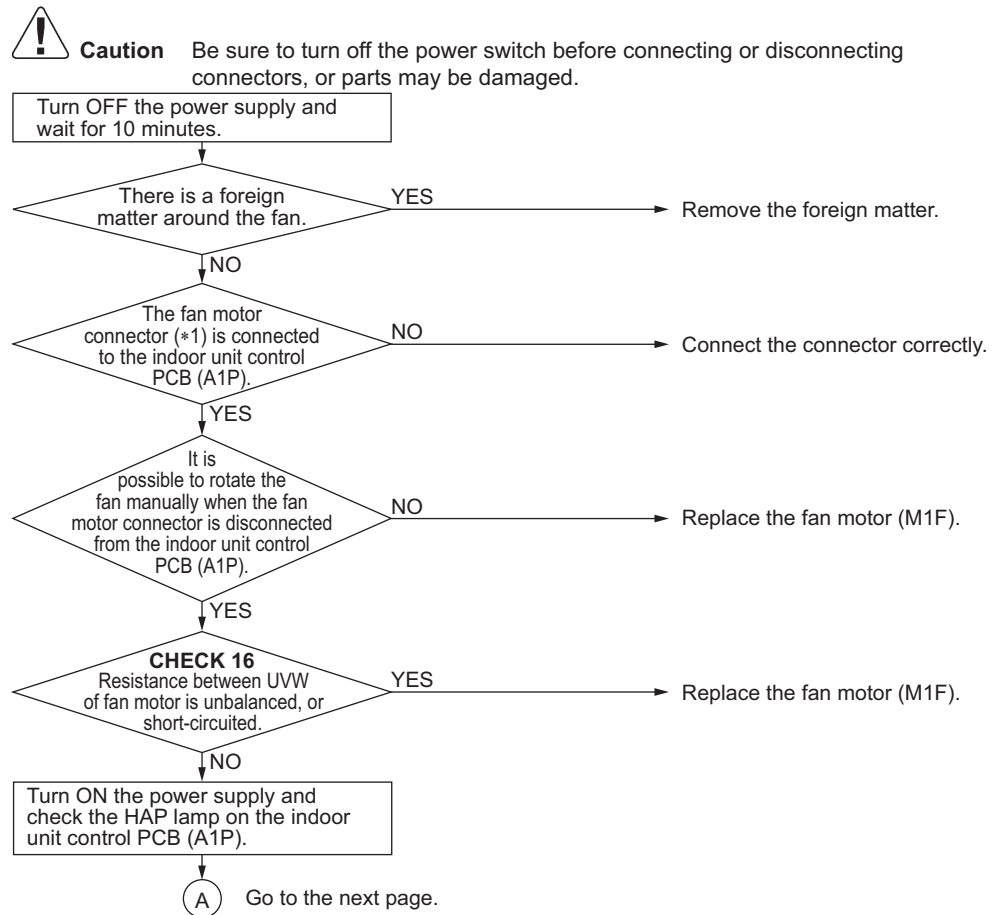
CHECK 16 Refer to page 384.

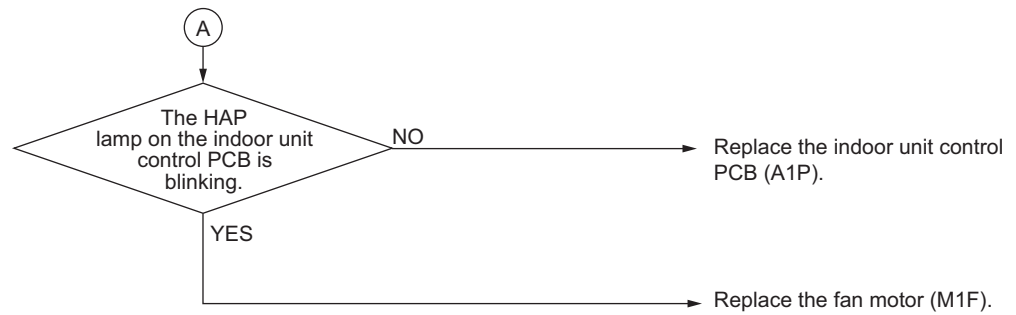
5.8 Indoor Fan Motor Abnormality

5.8.1 Indoor Fan Motor Abnormality (FCQ-AA Models)

| | |
|----------------------------------|---|
| Error Code | A6 |
| Applicable Models | FCQ-AA |
| Method of Error Detection | <ul style="list-style-type: none"> ■ Detection from the current flow on the PCB (A1P) ■ Detection from the current flow on the PCB when the fan motor starting operation |
| Error Decision Conditions | <ul style="list-style-type: none"> ■ An overcurrent flows ■ The rotation speed is less than a certain level for 6 seconds. ■ A position error in the fan rotor continues for 5 seconds or more. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Fan does not rotate due to clogged foreign matter. ■ Disconnection, short circuit, or loose connection of the harness of the fan motor ■ Fan motor lock (motor-related or external factors) ■ Defective fan motor (disconnection or insulation failure) ■ Defective indoor unit PCB |

Troubleshooting





*1. Check also if the relay connector between the indoor unit control PCB and the fan motor are correctly connected.



Reference

CHECK 16 Refer to page 384.

5.8.2 Indoor Fan Motor Abnormality (FHQ-P, FHQ-M Models)

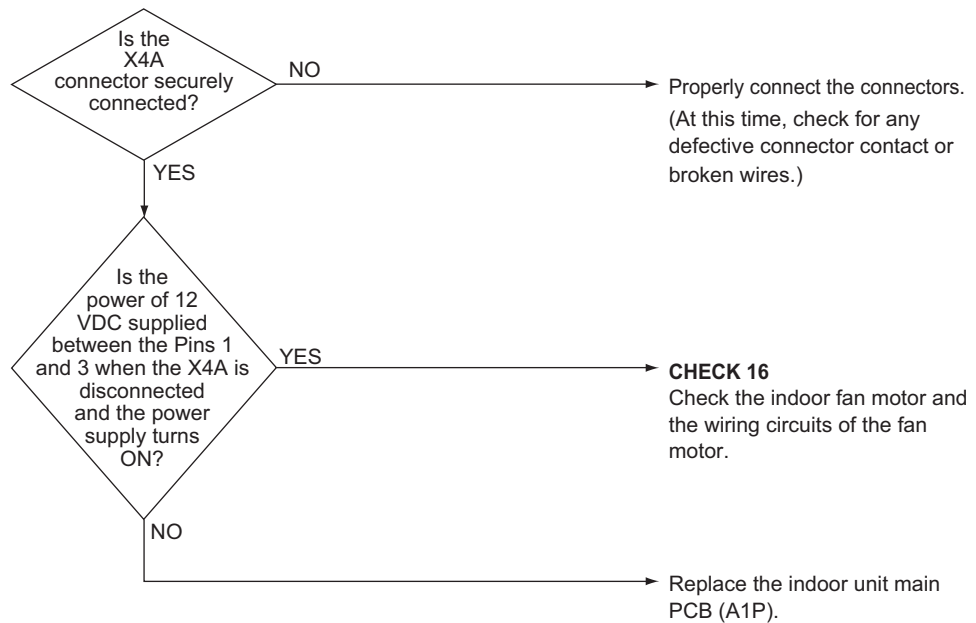
| | |
|----------------------------------|--|
| Error Code | A6 |
| Applicable Models | FHQ-P, FHQ-M |
| Method of Error Detection | This error is detected if there is no revolution detection signal output from the fan motor. |
| Error Decision Conditions | When no revolutions can be detected even at the maximum output voltage to the fan |
| Supposed Causes | <ul style="list-style-type: none"> ■ Defective indoor fan motor ■ Broken wires ■ Defective contact. |

Troubleshooting



Caution

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



Reference

CHECK 16 Refer to page 384.

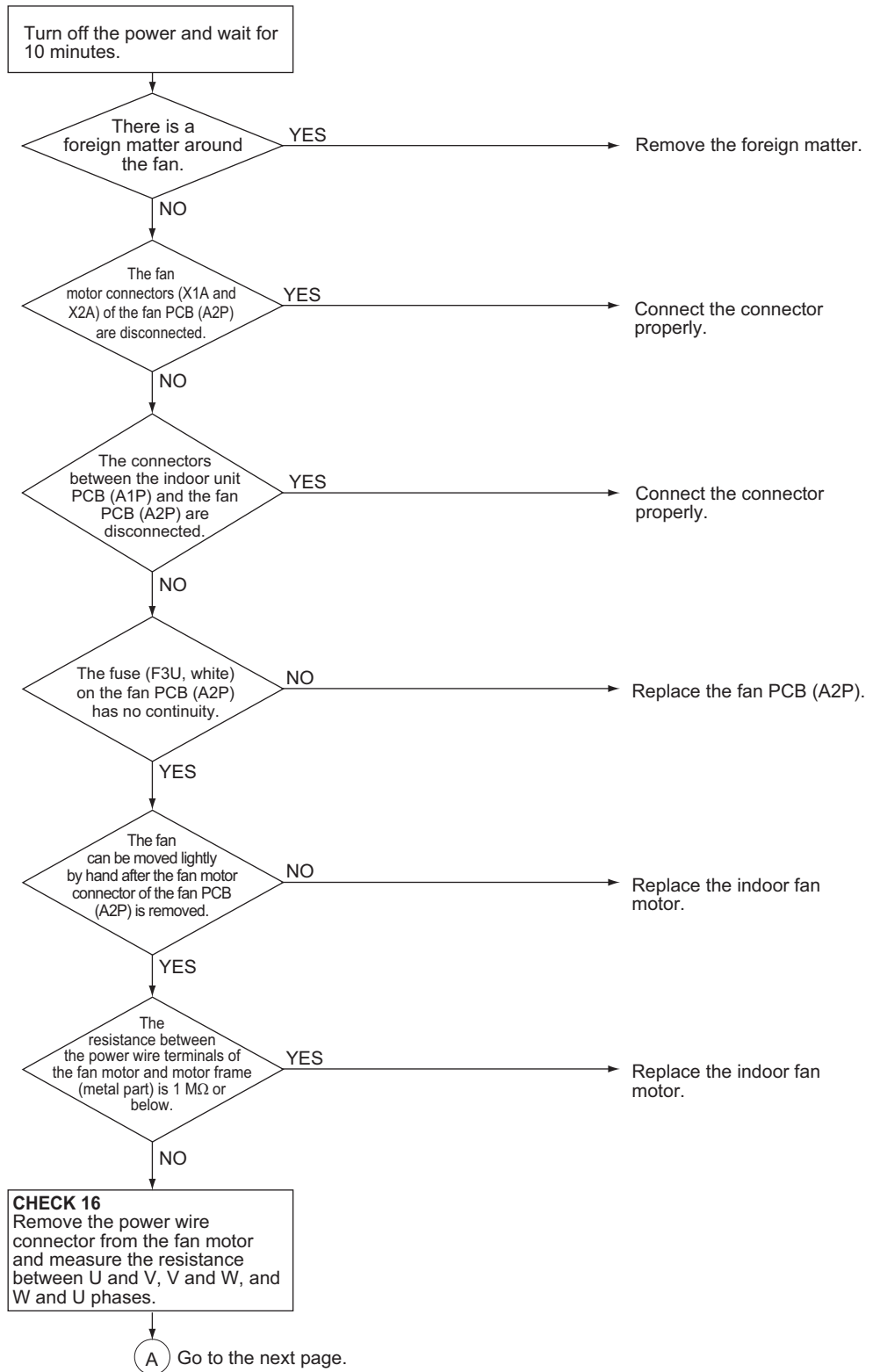
5.8.3 Indoor Fan Motor Abnormality (FBQ-P, FBQ30-48TB Models)

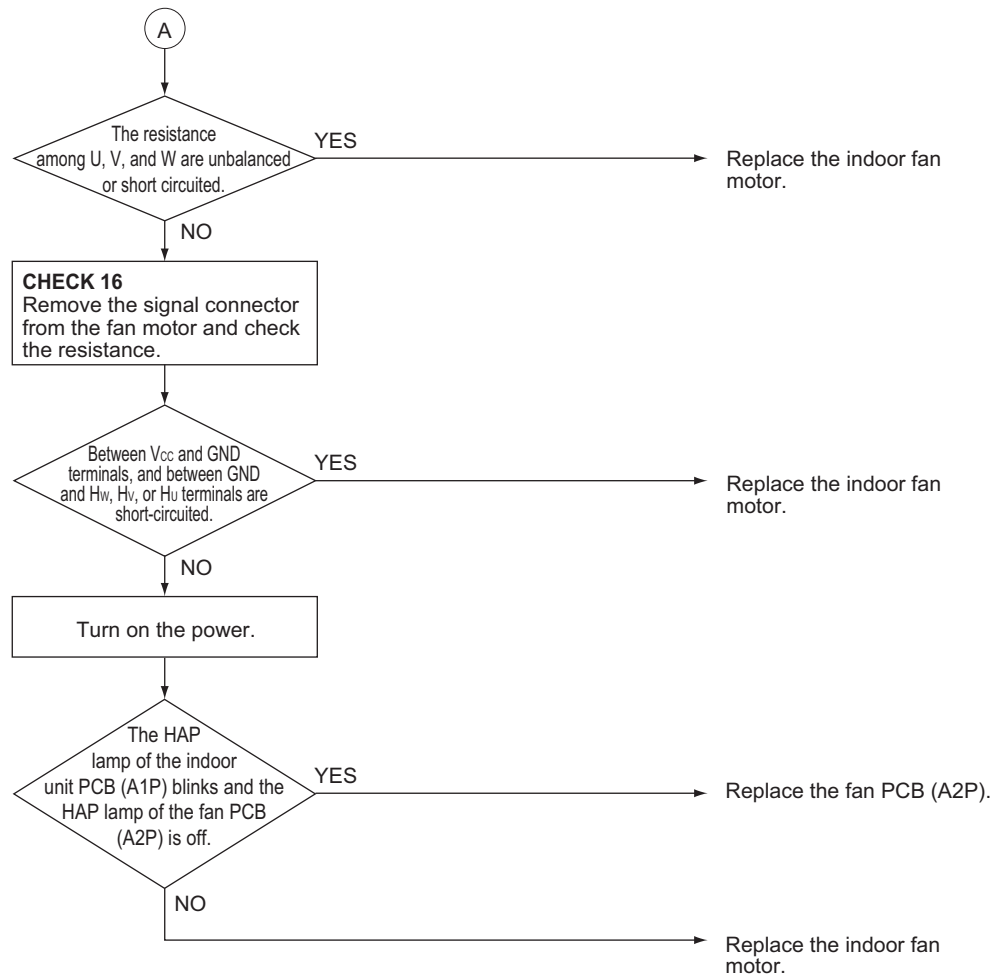
| | |
|----------------------------------|--|
| Error Code | A6 |
| Applicable Models | FBQ-P, FBQ30-48TB |
| Method of Error Detection | <ul style="list-style-type: none"> ■ Error from the current flow on the fan PCB ■ Error from the rotation speed of the fan motor in operation ■ Error from the position signal of the fan motor ■ Error from the current flow on the fan PCB when the fan motor starting operation |
| Error Decision Conditions | <ul style="list-style-type: none"> ■ An overcurrent flows. ■ The rotation speed is less than a certain level for 6 seconds. ■ A position error in the fan rotor continues for 5 seconds or more. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Clogging of a foreign matter ■ Disconnection of the fan motor connectors (X1A and X2A) ■ Disconnection of the connectors between the indoor unit PCB (A1P) and fan PCB (A2P) ■ Defective fan PCB (A2P) ■ Defective fan motor |

Troubleshooting



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





Reference CHECK 16 Refer to page 384.

5.9 Blower Motor Not Running


| | |
|----------------------------------|---|
| Error Code | A6 |
| Applicable Models | FTQ-TA, FTQ-TB |
| Outline | Error is issued if the indoor unit determines that the indoor fan motor cannot rotate. |
| Error Decision Conditions | <ul style="list-style-type: none"> ■ Determining successive abnormalities Checks the rotation speed at 5-second intervals using the feedback of the fan motor. If that figure falls below 50 rpm for the specified number of consecutive times successively, it is deemed abnormal operation. If, during operation, the rotation command is stopped, the 5-second interval check is halted and the counted number will be cleared. ■ Determining long-term abnormalities Checks the rotation speed at 5-second intervals using the feedback of the fan motor. Performs rotation sampling 720 times (takes approx. one hour), and if the rotation speed falls below 50 rpm over 100 times, it is deemed abnormal operation. When the sampling reaches 720 times, the counted number will be cleared and the 720 times sampling restarts. If, during this, the rotation command is stopped, the 5-second interval check is halted, but the counted number will be kept. When the rotation command is restarted, the checks will resume. |
| Error Reset Conditions | Reset by remote controller |
| Supposed Causes | <ul style="list-style-type: none"> ■ Fan or motor obstruction ■ Power interruption (low voltage) ■ Incorrect or loose wiring |
| Corrective Actions | <ul style="list-style-type: none"> ■ Check for obstruction on the fan or motor. ■ Verify the input voltage at the motor. ■ Check wiring or tighten wiring connections if needed. ■ Replace the indoor unit PCB or motor. |



Reference

CHECK 19 Refer to page 389.

5.10 Indoor Fan Motor Status Abnormality

| | |
|--|--|
| Error Code | A6-20 |
| Applicable Models | FTQ-TA, FTQ-TB |
| Outline | The indoor unit periodically receives control status information from the fan motor. Error is issued when the information shows abnormality. |
| Error Decision Conditions | If the information shows Power Limit or Temp Limit status, it will be deemed a MOTOR LIMIT abnormal operation. (The system can keep operating.) If the information shows Motor Lost Control or Current Trip status, it will be deemed a MOTOR TRIP abnormal operation. (The system stops operating.) |
| Error Reset Conditions | If the indoor unit stops receiving abnormal information, the error will be cleared. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Fan or motor obstruction ■ Blocked filters ■ Power interruption (low voltage) ■ Incorrect wiring ■ Blockage in the airflow (ductwork) or ductwork undersized ■ High loading conditions |
| Corrective Actions | <ul style="list-style-type: none"> ■ Check for obstruction on the fan, motor, or ductwork. ■ Clean filters. ■ Check filters, grille, duct system, heat exchanger air inlet/outlet for blockages. ■ Verify the input voltage at the motor. ■ Check wiring. ■ Replace motor. |
|  Reference | CHECK 19 Refer to page 389. |

5.11 Low Indoor Airflow

| | |
|----------------------------------|---|
| Error Code | A6-21 |
| Applicable Models | FTQ-TA, FTQ-TB |
| Outline | Error is issued if the indoor unit determines that the indoor fan motor rotation is insufficient, regardless of the rotation command from indoor unit. |
| Error Decision Conditions | <ul style="list-style-type: none"> ■ Determining successive abnormalities Checks the rotation speed at 5-second intervals using the feedback of the fan motor. If that figure exceeds 50 rpm and falls below 150 rpm 10 times successively, it is deemed abnormal operation. If, during operation, the rotation command is stopped, the 5-second interval check is halted and the counted number will be cleared. ■ Determining long-term abnormalities Checks the rotation speed at 5-second intervals using the feedback of the fan motor. Performs rotation sampling 720 times (takes approx. one hour), and if the rotation speed exceeds 50 rpm and falls below 150 rpm over 360 times, it is deemed abnormal operation. When the counter reaches 720 times, the counted number will be cleared and the 720 times sampling restarts. If, during this, the rotation command is stopped, the 5-second interval check is halted, but the counted number will be kept. When the rotation command is restarted, the checks will resume. |
| Error Reset Conditions | <ul style="list-style-type: none"> ■ Determining successive abnormalities Checks the rotation speed at 5-second intervals using the feedback of the fan motor. If that figure exceeds 150 rpm even once, the error will be cleared. ■ Determining long-term abnormalities Checks the rotation speed at 5-second intervals using the feedback of the fan motor. If that figure exceeds 150 rpm 36 times successively, the error will be cleared. At that point, the counted number and sampling number will be cleared, and the 720 times sampling starts again from the beginning. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Fan or motor obstruction ■ Blocked filters ■ Restrictive ductwork or ductwork undersized ■ Wiring disconnected ■ Wrong outdoor and indoor combination ■ Indoor fan motor failure |
| Corrective Actions | <ul style="list-style-type: none"> ■ Check for obstruction on the fan or motor. ■ Check ductwork and filter for blockage. ■ Clean filters. ■ Remove obstruction. Verify all registers are fully open. ■ Check the connections and the rotation of the motor. ■ Verify the input voltage at the motor. ■ Verify ductwork is appropriately sized for system. Resize or replace ductwork if needed. ■ Replace motor. |



Reference

CHECK 19 Refer to page 389.

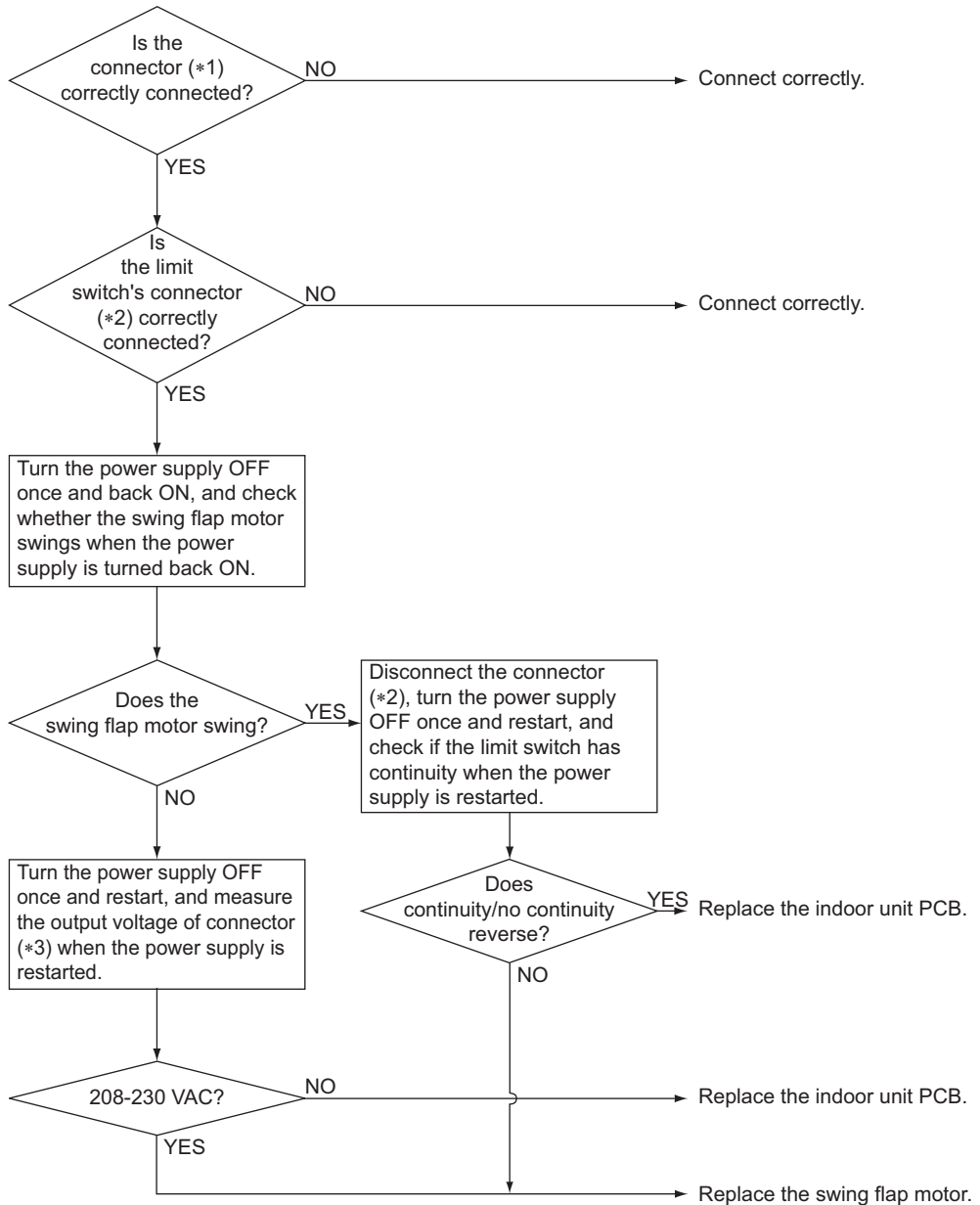
5.12 Swing Flap Motor Abnormality

| | |
|----------------------------------|--|
| Error Code | A7 |
| Applicable Models | FHQ-P, FHQ-M |
| Method of Error Detection | Utilizes ON/OFF of the limit switch when the motor turns. |
| Error Decision Conditions | When ON/OFF of the micro-switch for positioning cannot be reversed even though the swing flap motor is energized for a specified amount of time (about 30 seconds). * Error code is displayed but the system operates continuously. |
| Supposed Causes | <ul style="list-style-type: none">■ Defective swing motor■ Defective connection cable (power supply and limit switch)■ Defective micro-switch■ Defective indoor unit main PCB |

Troubleshooting



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



Note(s)

*1. Connector and indoor unit PCB

| Model | Connector for swing flap motor | | | PCB |
|-------|--------------------------------|-----|-----|-----|
| | *1 | *2 | *3 | |
| FHQ | X6A, X9A | X9A | X6A | A1P |

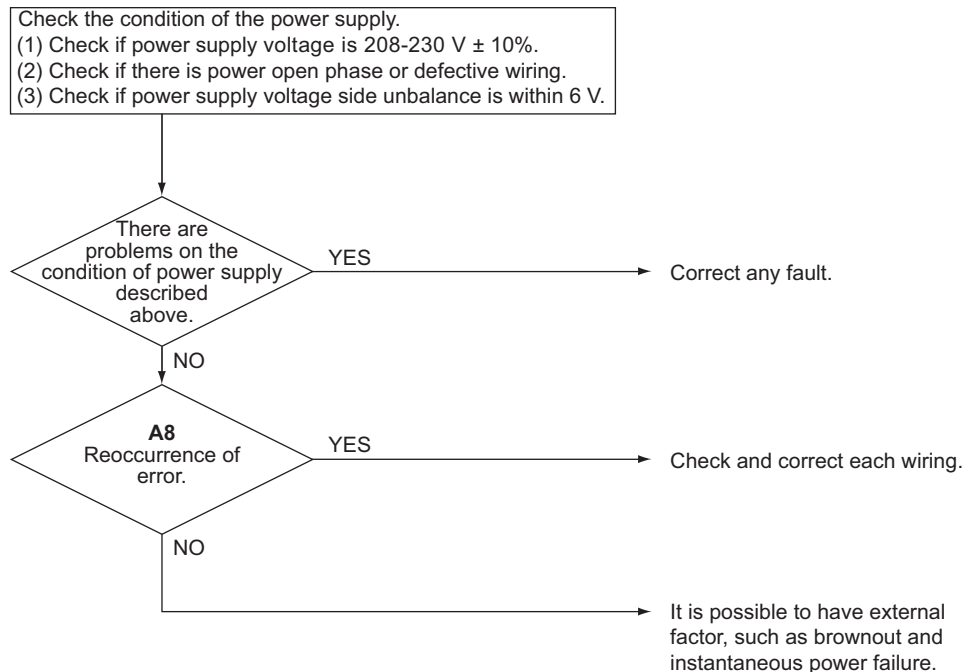
5.13 Power Supply Voltage Abnormality

| | |
|----------------------------------|--|
| Error Code | A8 |
| Applicable Models | FBQ-P, FBQ-TB |
| Method of Error Detection | Error is detected by checking the input voltage of the fan motor. |
| Error Decision Conditions | When the input voltage of fan motor is 150 V or less, or 386 V or more. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Defective power supply voltage ■ Defective connection on signal line ■ Defective wiring ■ Instantaneous power failure, others |

Troubleshooting


Caution

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



5.14 Blower Motor Stops for Over/Under Voltage

| | |
|----------------------------------|---|
| Error Code | A8 |
| Applicable Models | FTQ-TA, FTQ-TB |
| Outline | The indoor unit periodically receives control status information from the fan motor. Error is issued when the information shows abnormality. |
| Error Decision Conditions | If the information shows Over/Under Voltage status, it will be deemed a MOTOR VOLTS abnormal operation. |
| Error Reset Conditions | If the information is normal, the error will be cleared. |
| Supposed Causes | <ul style="list-style-type: none"> ■ High AC line voltage to indoor blower motor ■ Low AC line voltage to indoor blower motor ■ Incorrect wiring |
| Corrective Actions | <ul style="list-style-type: none"> ■ Verify line voltage to indoor blower motor is within the range specified on the ID blower rating plate. ■ Check power to indoor blower motor. ■ Check wiring. ■ Replace motor. |

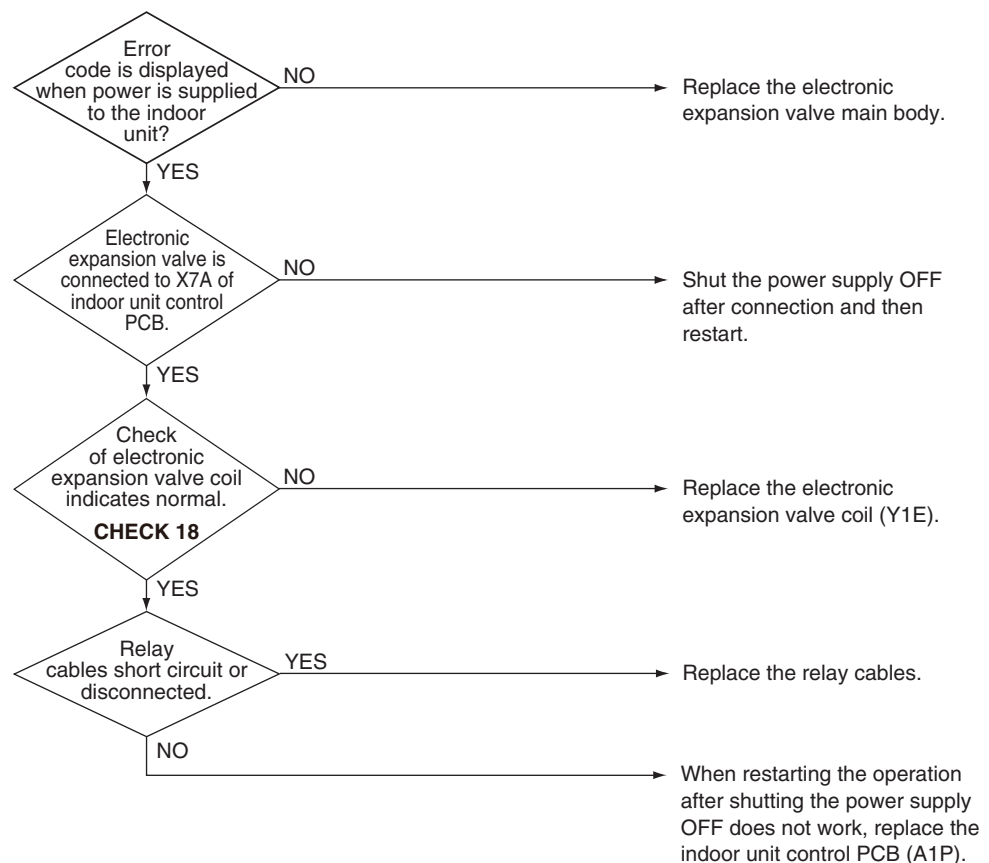
5.15 Electronic Expansion Valve Coil Abnormality, Dust Clogging

| | |
|----------------------------------|---|
| Error Code | A9 |
| Applicable Models | All indoor models |
| Method of Error Detection | Electronic expansion valve coil conditions are checked via microcomputer. The electronic expansion valve main body is checked for dust clogging via microcomputer. |
| Error Decision Conditions | Pin input for electronic expansion valve coil is abnormal when initializing microcomputer. Either of the following conditions is seen/caused/occurs while the unit stops operation. <ul style="list-style-type: none"> ● R1T – R2T > 8°C (14.4°F) ● R2T shows fixed degrees or below. R1T: temperature of suction air R2T: temperature of liquid pipe of heat exchanger. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Defective electronic expansion valve coil ■ Defective indoor unit main PCB ■ Defective relay cables |

Troubleshooting


Caution

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


Reference
CHECK 18 Refer to page 386.

5.16 Drain Level Above Limit

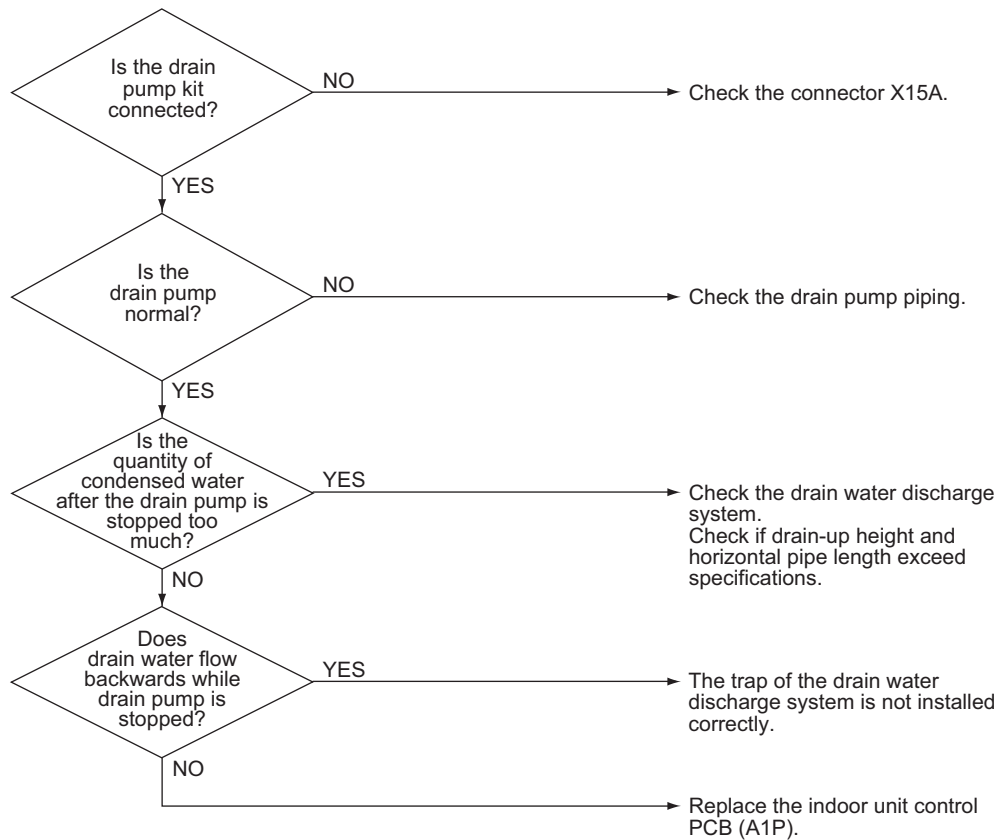
| | |
|----------------------------------|---|
| Error Code | AF |
| Applicable Models | FCQ-TA, FCQ-AA, FBQ-P, FBQ-TB |
| Method of Error Detection | Water leakage is detected based on float switch ON/OFF operation while the compressor is not in operation. |
| Error Decision Conditions | When the float switch changes from ON to OFF while the compressor is not in operation. * Error code is displayed but the system operates continuously. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Error in the drain pipe installation ■ Defective float switch ■ Defective indoor unit PCB ■ Defective connector connection ■ Defective drain pump |

Troubleshooting



Caution

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



5.17 Self-Cleaning Decoration Panel Abnormality

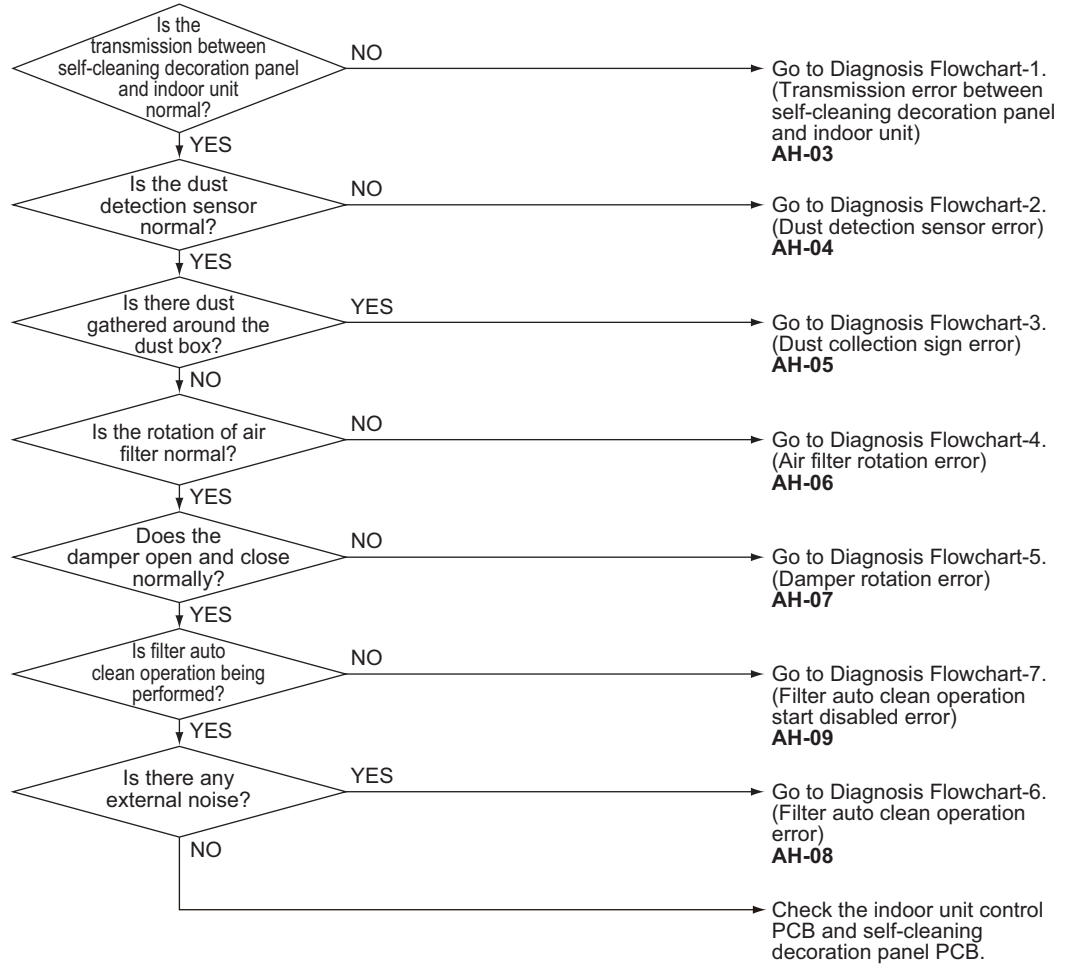
| | |
|----------------------------------|--|
| Error Code | AH |
| Applicable Models | FCQ-TA (when self-cleaning decoration panel BYCQ125BGW1 is installed) FCQ-AA (when self-cleaning decoration panel BYCQ54EEGFU is installed) |
| Method of Error Detection | Error is detected by abnormal signal from the self-cleaning decoration panel. |
| Error Decision Conditions | Any of the following conditions is met while the unit is in operation. <ul style="list-style-type: none"> ■ There is a transmission error between self-cleaning decoration panel and indoor unit. ■ Dust detection sensor (light receiving side) is short-circuited. ■ The total of fan operation time exceeds a specified value after dust collection sign display. ■ Limit switch does not detect when air filter rotates or air filter does not rotate. ■ Limit switch does not detect when damper opens (or closes) or damper does not work. ■ Filter auto clean operation does not complete even after a specified time has elapsed. ■ Filter auto clean operation does not start even after a specified time has elapsed. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Transmission error (between self-cleaning decoration panel and indoor unit) ■ Dust detection sensor error ■ Dust collection sign ■ Air filter rotation error ■ Damper rotation error ■ Filter auto clean operation error ■ Filter auto clean operation start disabled error |

Troubleshooting



Caution

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



Reference

Refer to the diagnosis flowchart below.

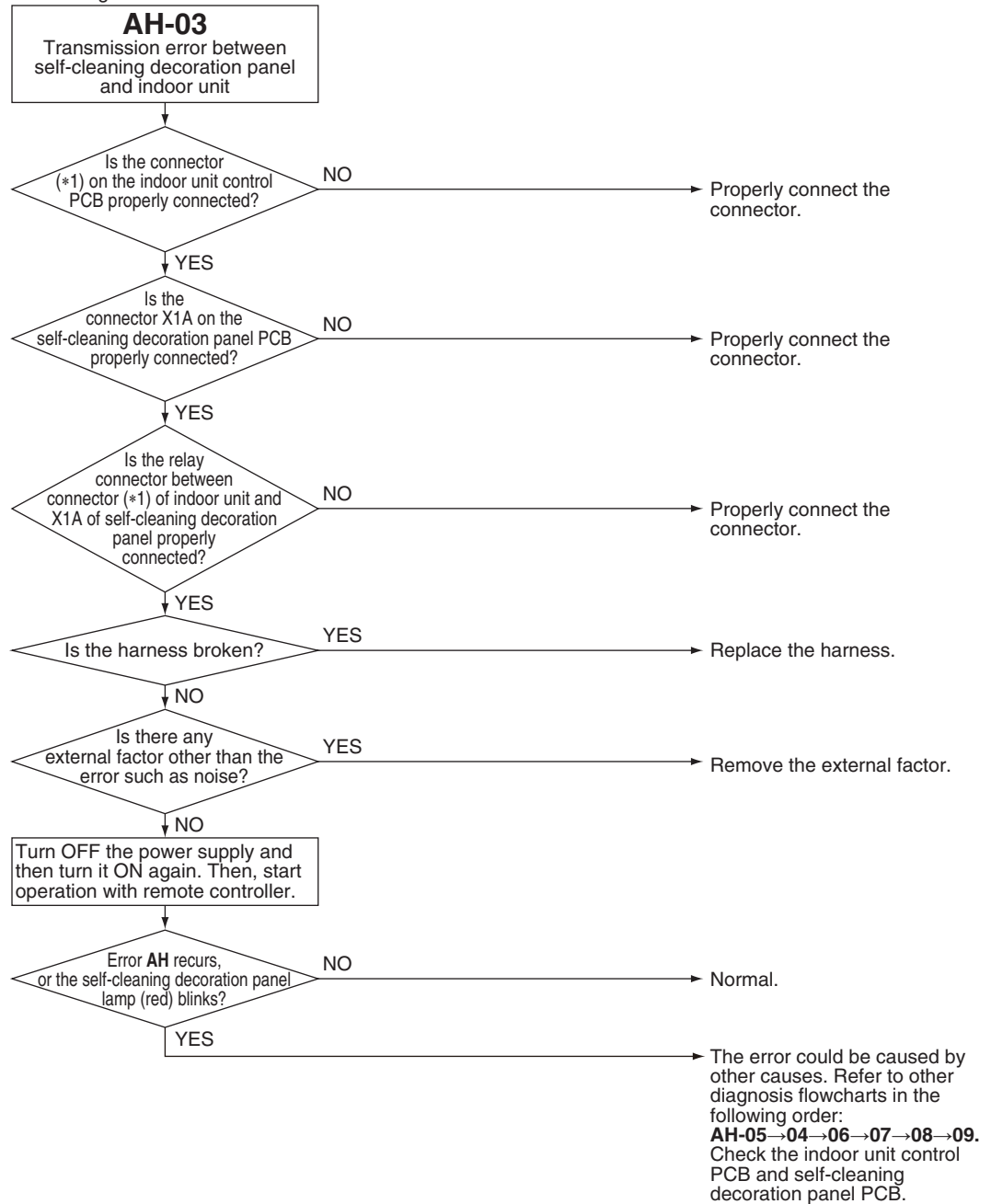
| Error code | Diagnosis Flowchart |
|--------------|-----------------------------------|
| AH-03 | Diagnosis Flowchart-1 on page 303 |
| AH-04 | Diagnosis Flowchart-2 on page 304 |
| AH-05 | Diagnosis Flowchart-3 on page 305 |
| AH-06 | Diagnosis Flowchart-4 on page 306 |
| AH-07 | Diagnosis Flowchart-5 on page 308 |
| AH-08 | Diagnosis Flowchart-6 on page 310 |
| AH-09 | Diagnosis Flowchart-7 on page 311 |



Caution

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

Diagnosis Flowchart-1



Note(s)

*1. Connector

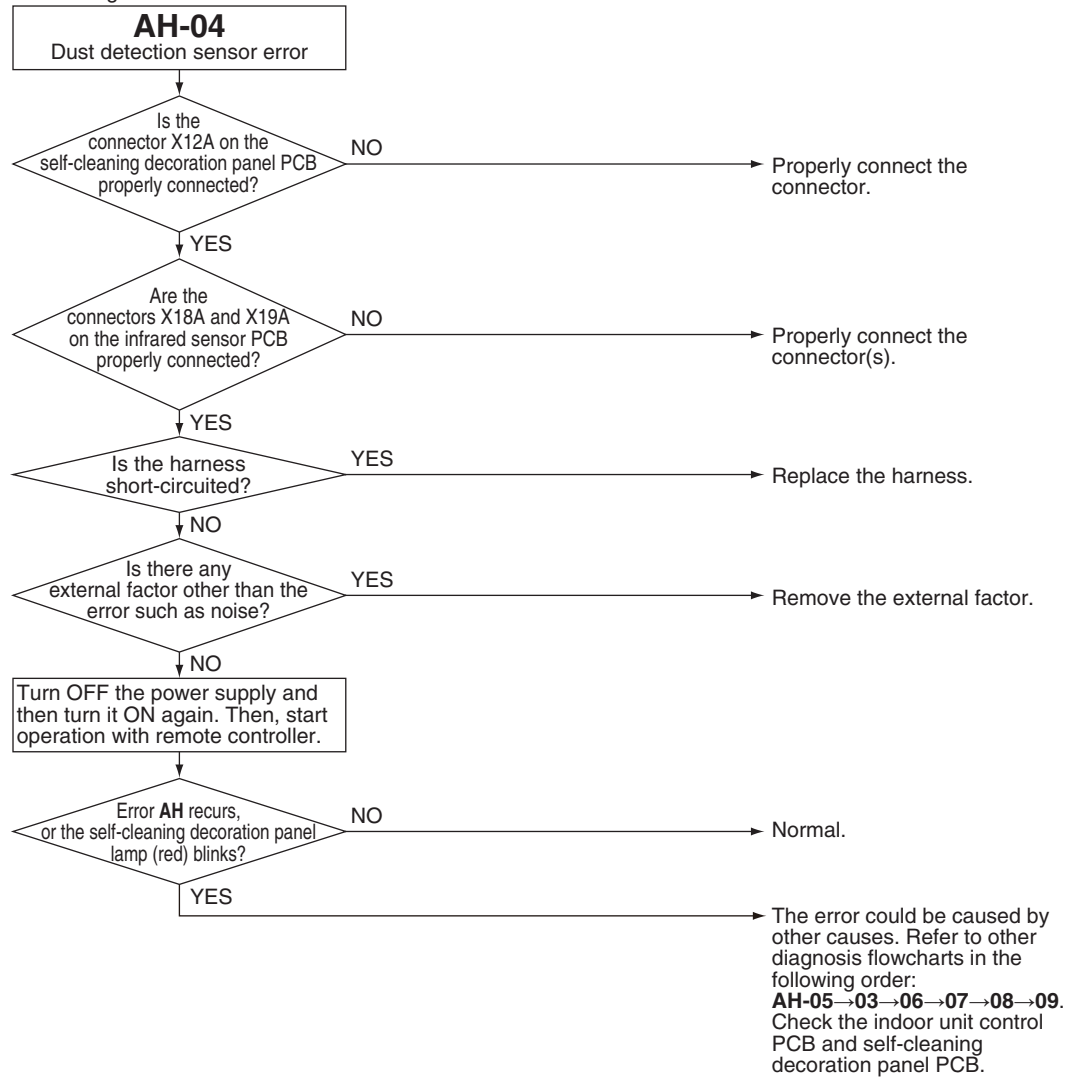
| Model | Connector |
|--------|-----------|
| FCQ-TA | X8A |
| FCQ-AA | X70A |



Caution

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

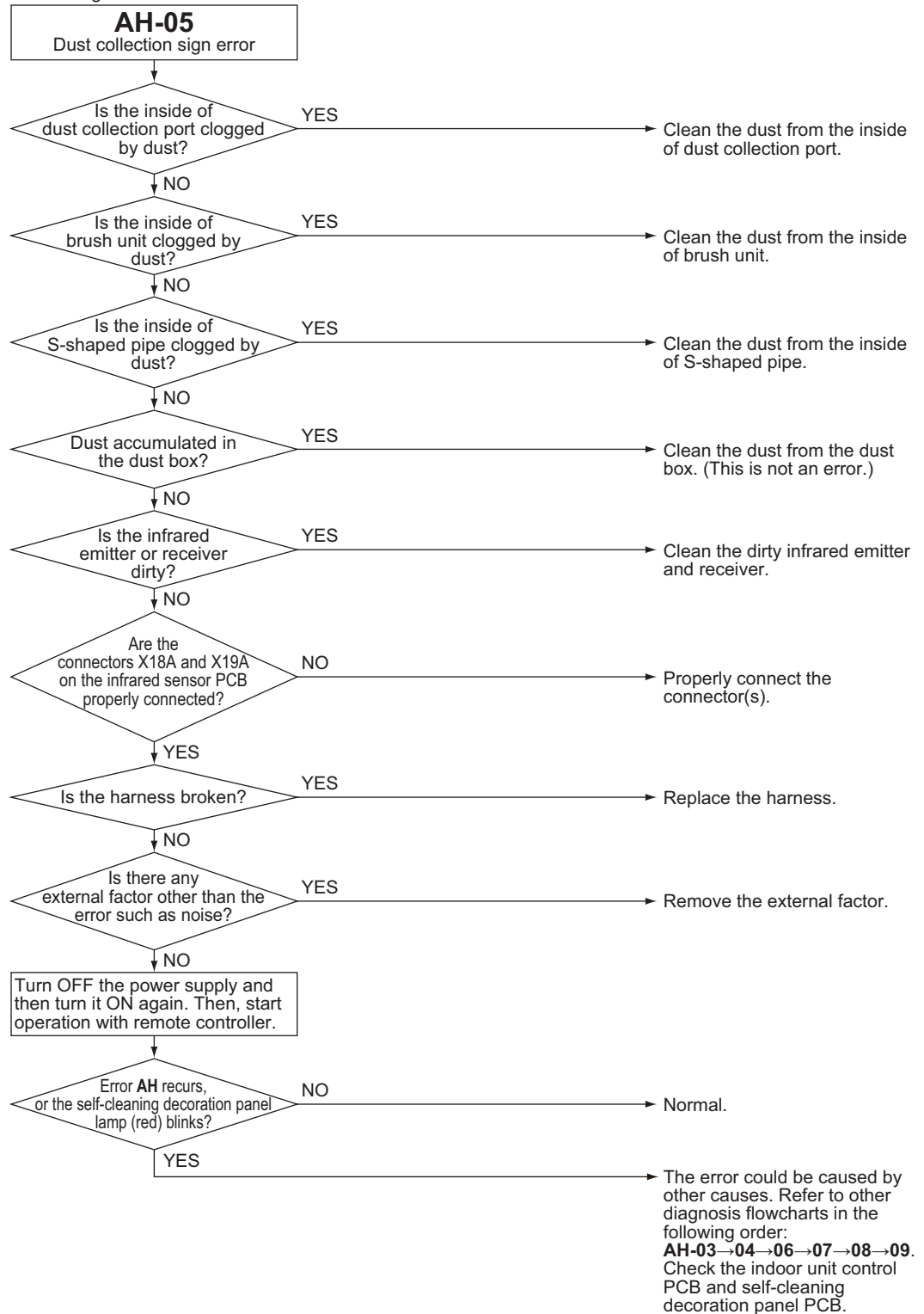
Diagnosis Flowchart-2



**Caution**

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

Diagnosis Flowchart-3

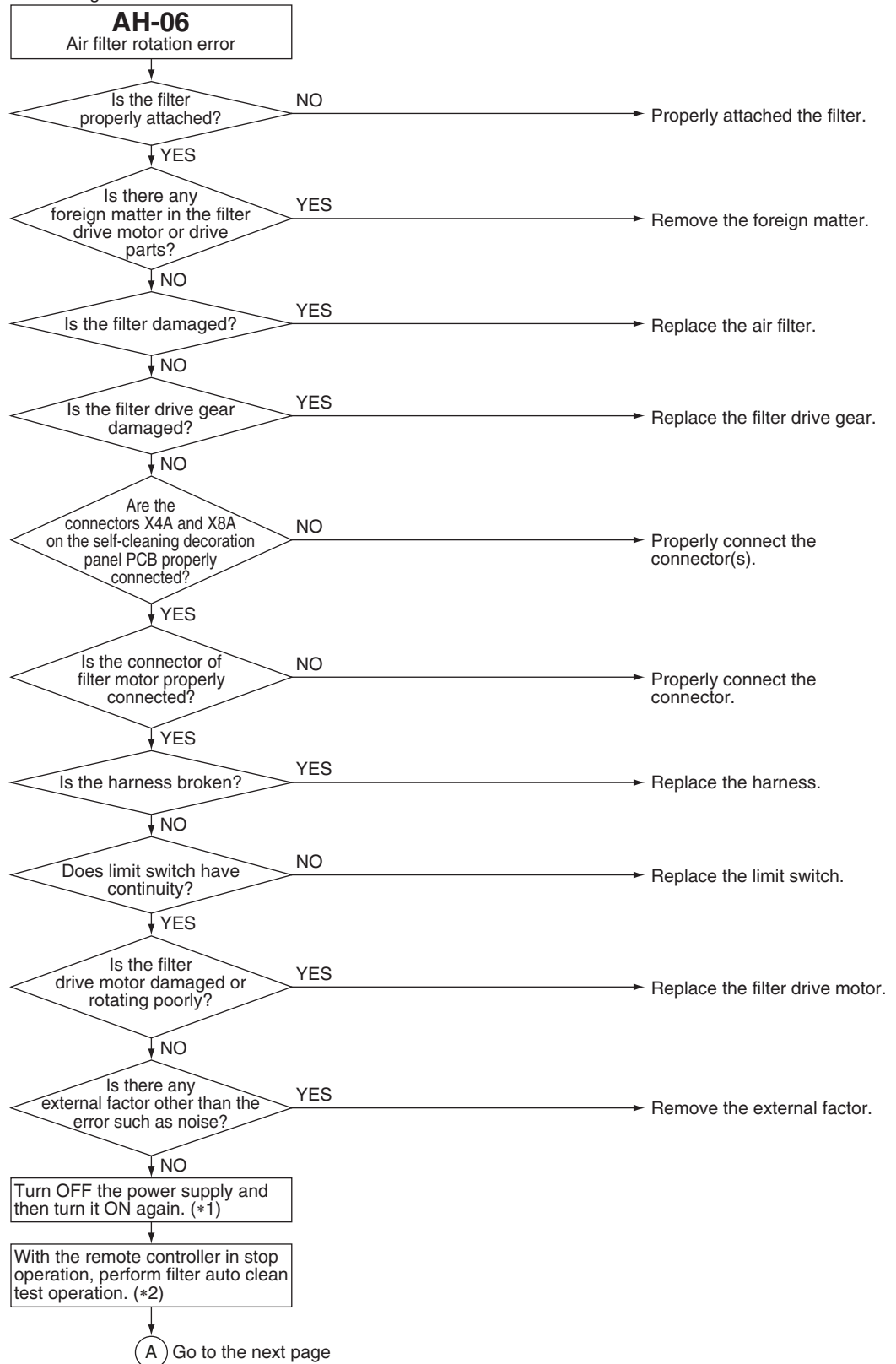


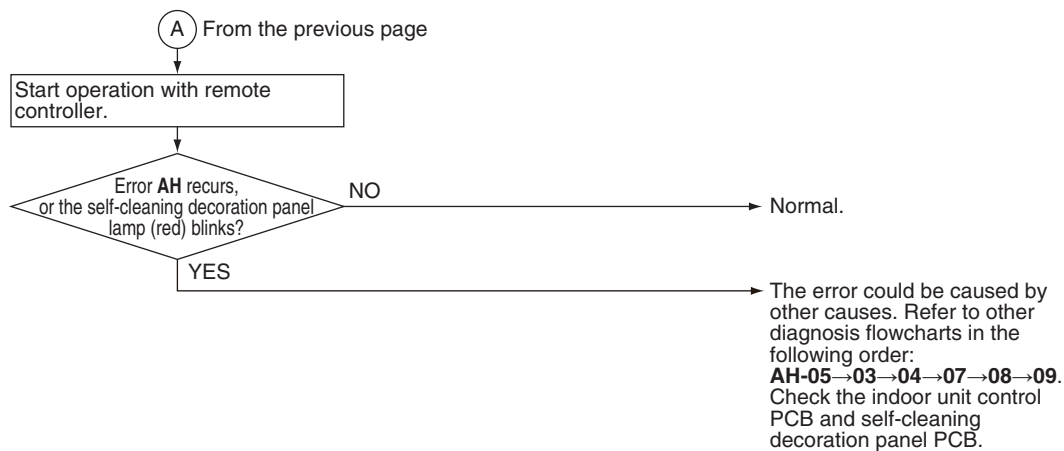


Caution

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

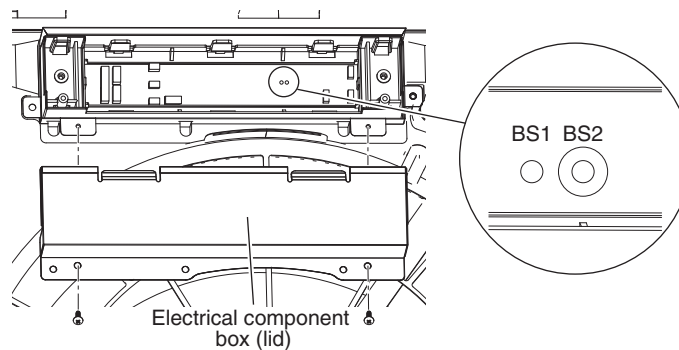
Diagnosis Flowchart-4





Note(s)

- *1. Temporary error code reset operation can be performed by pressing the push switch button **(BS2)** on the self-cleaning decoration panel PCB



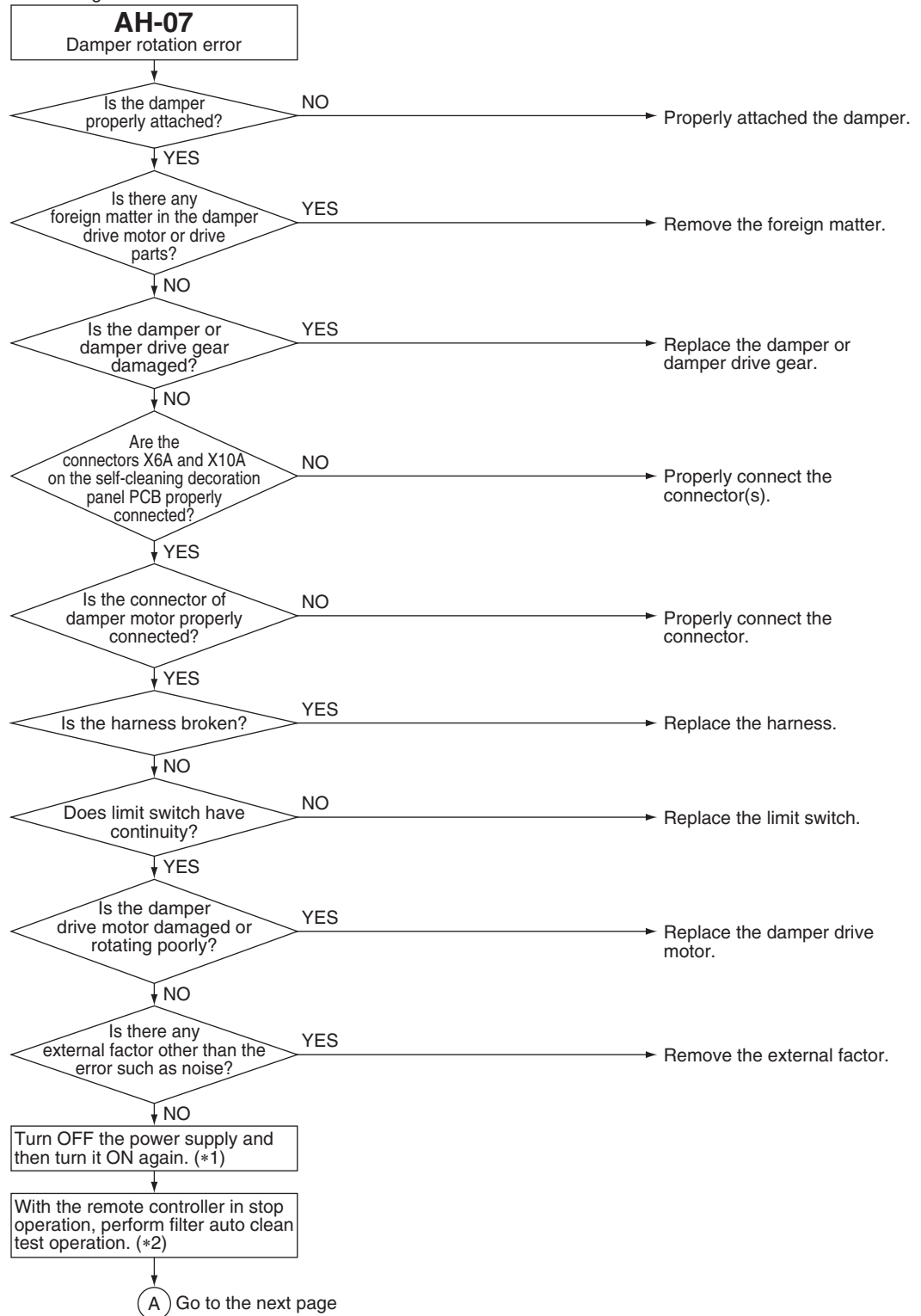
- *2. For details on performing filter auto clean test operation, refer to the operation manual of the self-cleaning decoration panel.

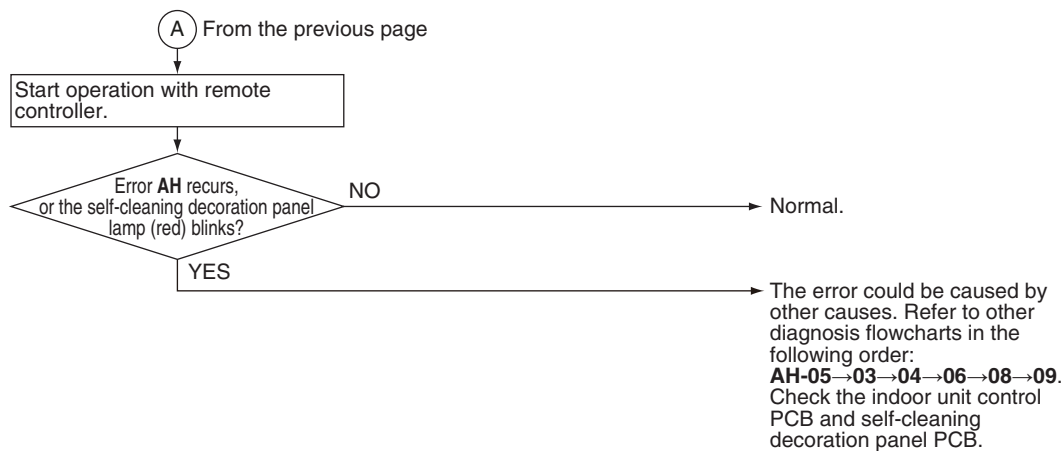


Caution

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

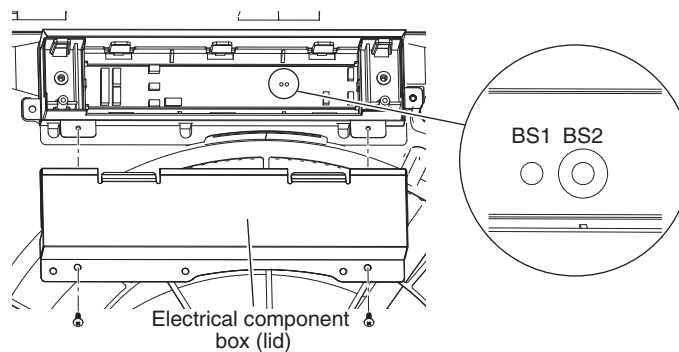
Diagnosis Flowchart-5



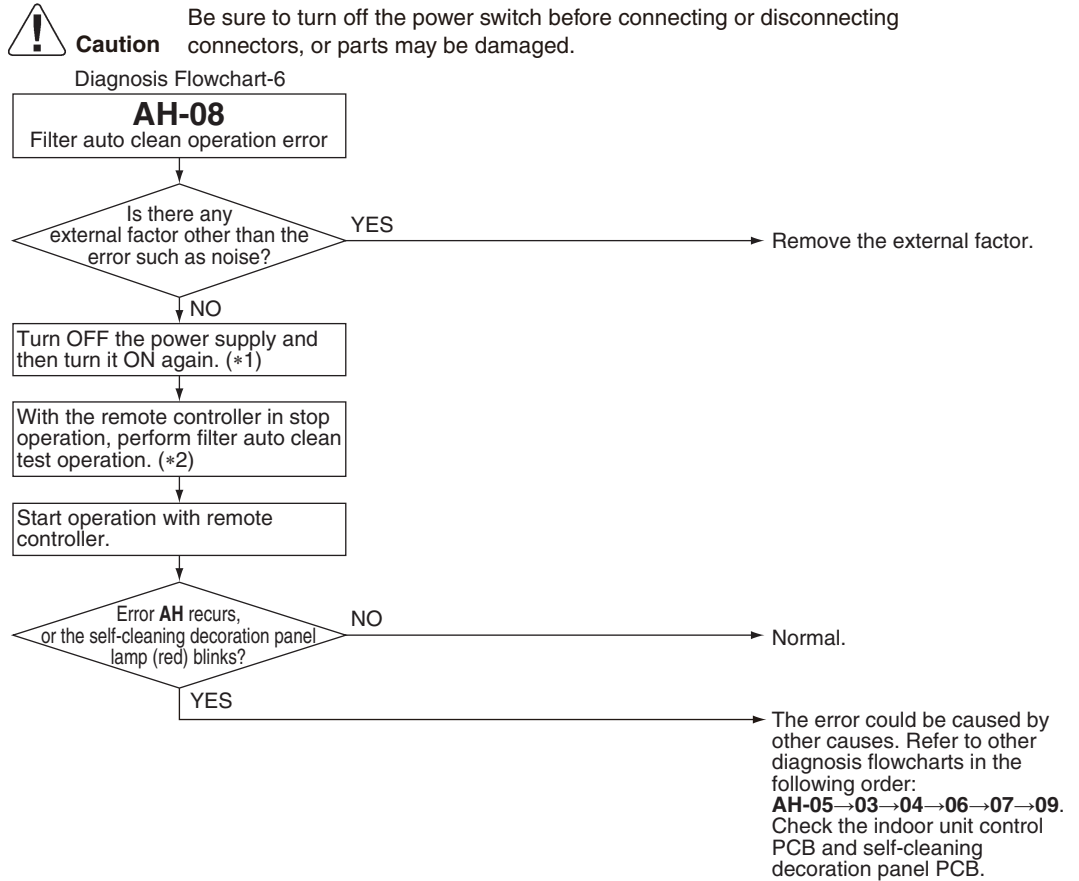


Note(s)

- *1. Temporary error code reset operation can be performed by pressing the push switch button **(BS2)** on the self-cleaning decoration panel PCB

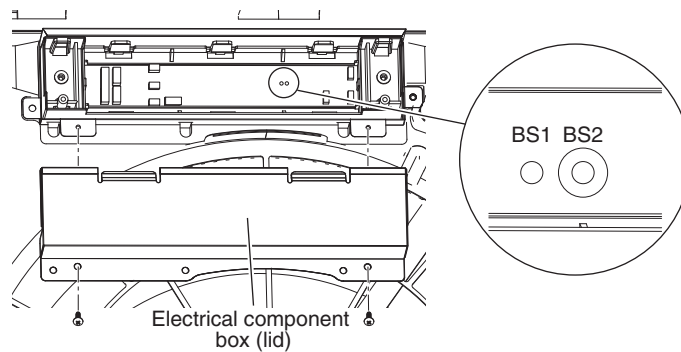


- *2. For details on performing filter auto clean test operation, refer to the operation manual of the self-cleaning decoration panel.

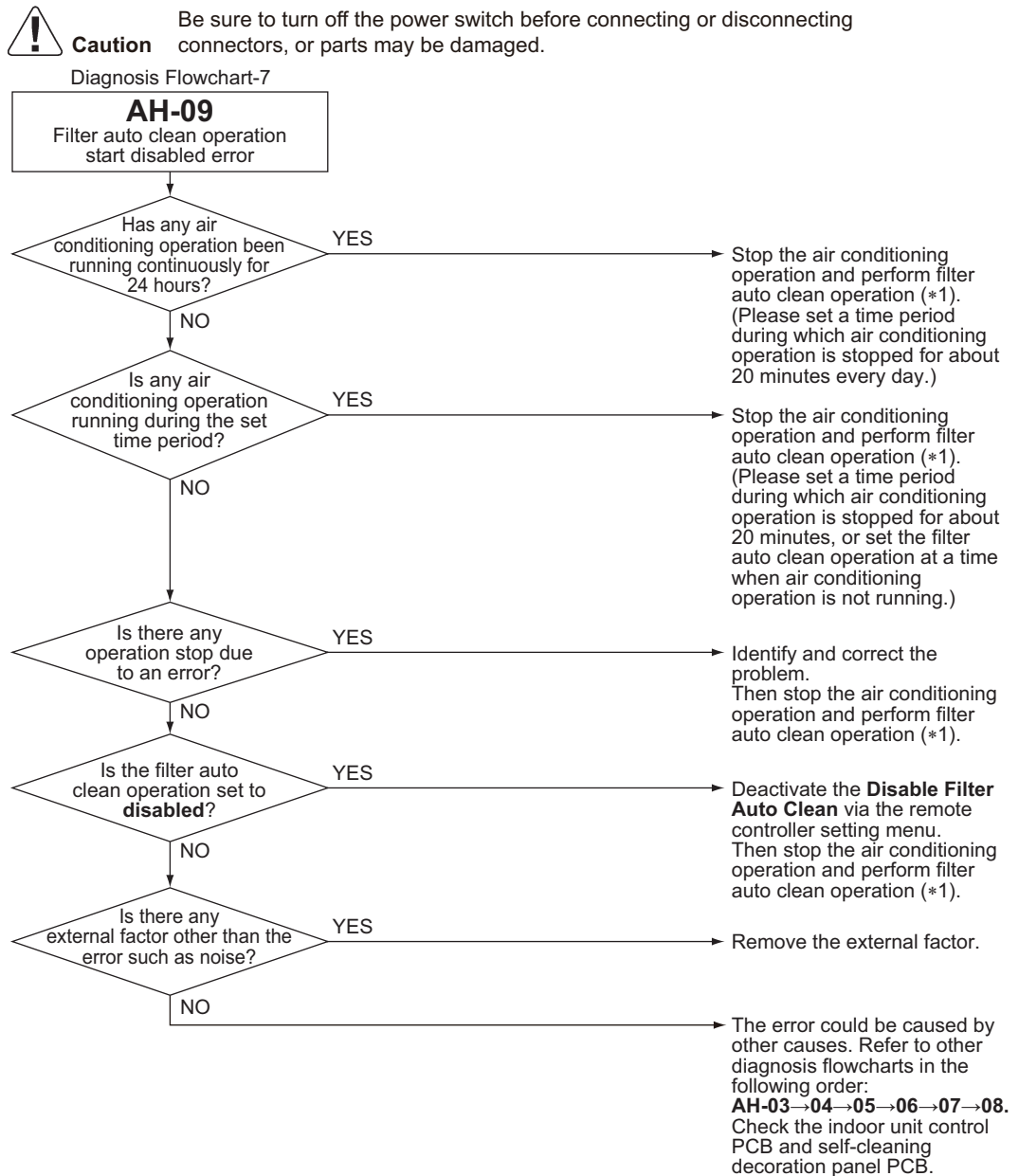


i Note(s)

*1. Temporary error code reset operation can be performed by pressing the push switch button (BS2) on the self-cleaning decoration panel PCB



*2. For details on performing filter auto clean test operation, refer to the operation manual of the self-cleaning decoration panel.

**Note(s)**

*1. If the filter auto clean operation mode is set to a designated time period, perform a filter auto clean operation as described below to clear the **AH** error code. (If scheduled operation time is not set, the filter auto clean operation will be performed automatically after air conditioning operation is stopped, so the following operation is unnecessary.)

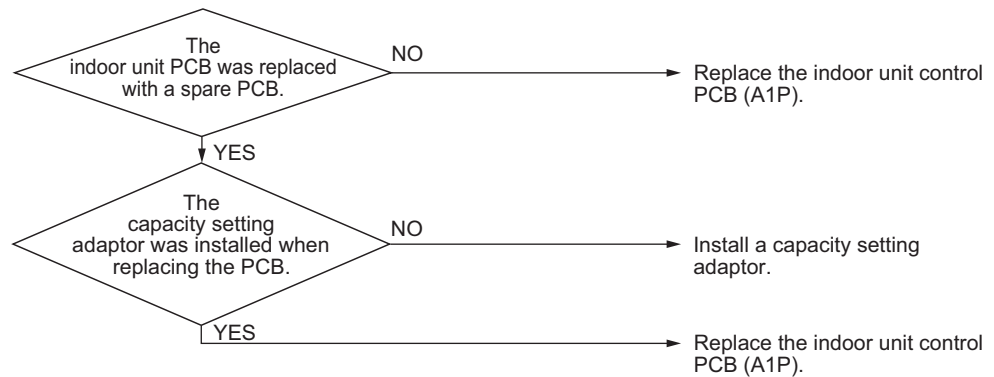
1. On the remote controller, select **Filter Auto Clean** menu. The screen will change into a cleaning time period setting screen. Confirm the set time period. (Example: 0:00 to 3:00)
2. Select **Clock & Calendar** on the remote controller and set the current time to the time one minute before the beginning of the time set in step 1. (Example: If the set time is from 0:00 to 3:00, set the current time to 23:59, one minute before 0:00)
3. After about 1 minute, filter auto clean operation will start. (**AH** error cleared)
4. After confirming that the filter auto clean operation is finished, return the time changed in step 2 to the regular time.

5.18 Defective Capacity Setting

| | |
|----------------------------------|---|
| Error Code | AJ |
| Applicable Models | All indoor models |
| Method of Error Detection | Capacity is determined according to resistance of the capacity setting adaptor and the memory inside the IC memory on the indoor unit PCB, and whether the value is normal or abnormal is determined. |
| Error Decision Conditions | The capacity code is not saved to the PCB, and the capacity setting adaptor is not connected. A capacity that does not exist for that unit is set. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Defective capacity setting adaptor connection ■ Defective indoor unit PCB |
| Troubleshooting | |



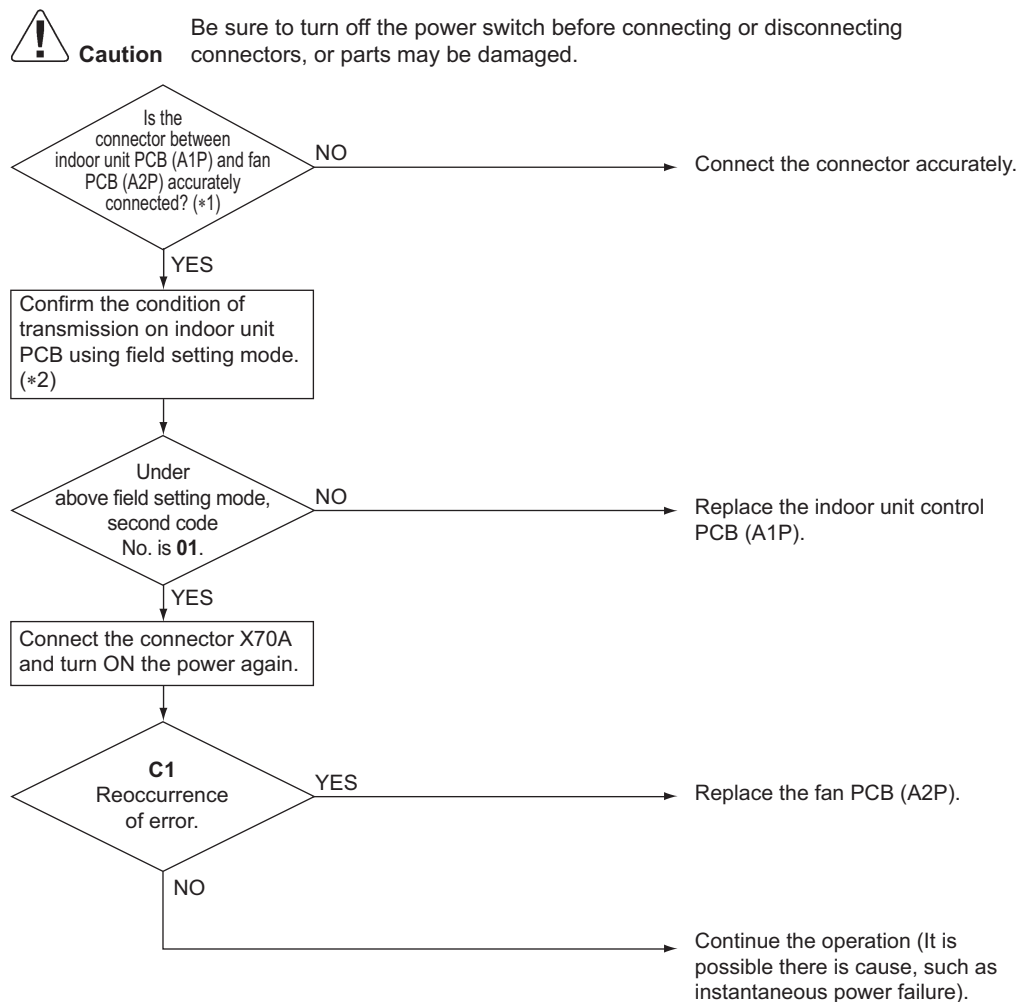
Caution Be sure to turn off the power switch before connecting or disconnecting connectors, or parts may be damaged.



5.19 Transmission Abnormality (between Indoor Unit PCB and Fan PCB)

| | |
|----------------------------------|---|
| Error Code | C1 |
| Applicable Models | FBQ-P, FBQ-TB |
| Method of Error Detection | Transmission conditions between the indoor unit main PCB (A1P) and fan PCB (A2P) are checked via microcomputer. |
| Error Decision Conditions | Normal transmission is not carried out for a certain duration. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Defective connection of the connector between indoor unit main PCB (A1P) and fan PCB (A2P) ■ Defective indoor unit main PCB (A1P) ■ Defective fan PCB (A2P) ■ External factor, such as instantaneous power failure |

Troubleshooting



Note(s)

*1. Pull out and insert the connector once and check if it is absolutely connected.

*2. Method to check transmission part of indoor unit control PCB.

(1) Turn OFF the power and remove the connector X70A of indoor unit control PCB (A1P).

(2) Short circuit X70A.

(3) After turning ON the power, check below numbers under field setting from remote controller.

(Confirmation: Second code No. at the condition of first code No. 21 on mode No. 41)

Determination 01: Normal

Other than 01: Transmission error on indoor unit control PCB

* After confirmation, turn OFF the power, take off the short circuit and connect X70A back to original condition.

5.20 Blower Motor Communication Error

| | |
|----------------------------------|--|
| Error Code | C1-07 |
| Applicable Models | FTQ-TA, FTQ-TB |
| Outline | Error is issued if transmission abnormalities occur between indoor unit and fan motor. |
| Error Decision Conditions | If the response message from the fan motor is an abnormal message, and determined as such by the indoor unit, the indoor unit will execute a retry. If everything fails for 5 seconds, it is deemed to be a transmission abnormality. |
| Error Reset Conditions | If the indoor unit receives even a single normal response message from the fan motor, the error will be cleared. |
| Supposed Causes | <ul style="list-style-type: none">■ Incorrect or loose wiring■ Power interruption (low voltage) |
| Corrective Actions | <ul style="list-style-type: none">■ Check wiring or tighten wiring connections if needed.■ Verify the input voltage at the motor.■ Replace the indoor unit PCB or motor. |

5.21 Thermistor Abnormality

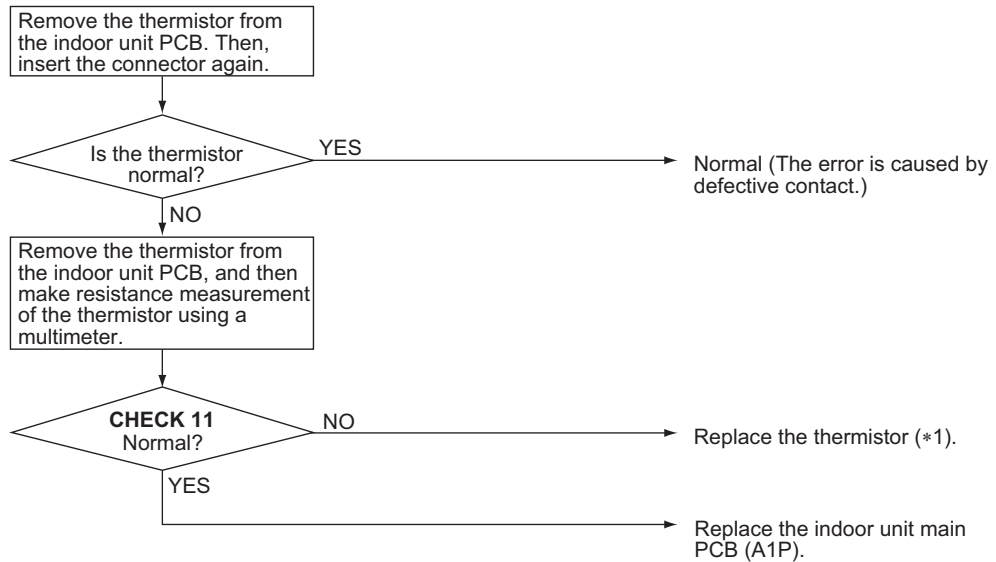
| | |
|----------------------------------|--|
| Error Code | C4, C5, C9, CA |
| Applicable Models | C4, C5: All indoor units C9: except FTQ-TA, FTQ-TB models CA: FBQ-P models only |
| Method of Error Detection | The error is determined by the temperature detected by the thermistor. |
| Error Decision Conditions | The thermistor becomes disconnected or shorted while the unit is running. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Defective thermistor ■ Defective indoor unit PCB ■ Defective connector connection ■ Broken or disconnected wire |

Troubleshooting



Caution

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



Note(s)

*1. Error code and thermistor

| Error Code | Thermistor | Except FBQ-P FTQ-TA FTQ-TB | FBQ-P | FTQ-TA FTQ-TB |
|------------|---------------------------------------|----------------------------------|-------|------------------|
| C4 | Heat exchanger liquid pipe thermistor | R2T | R2T | R2T |
| C5 | Heat exchanger gas pipe thermistor | R3T | R3T | R3T |
| C9 | Suction air thermistor | R1T | R1T | *2 |
| CA | Discharge air thermistor | — | R4T | — |

*2. Refer to page 320 for **C9** for FTQ-TA, FTQ-TB models.



Reference

CHECK 11 Refer to page 379.

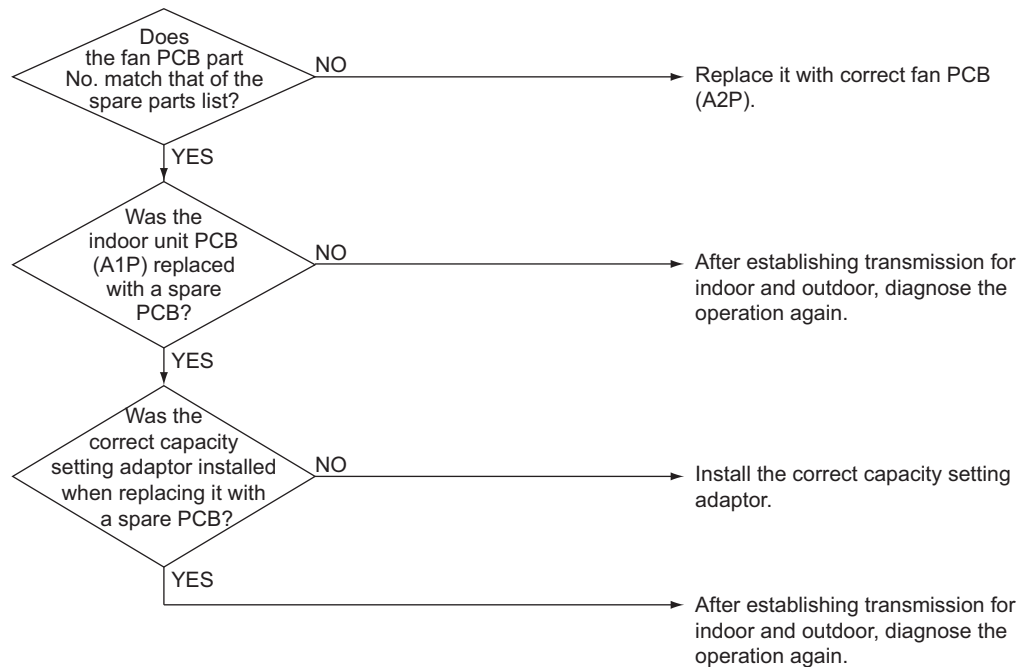
5.22 Combination Abnormality (between Indoor Unit PCB and Fan PCB)

| | |
|----------------------------------|---|
| Error Code | C6 |
| Applicable Models | FBQ-P, FBQ-TB |
| Method of Error Detection | Transmission conditions with fan PCB (A2P) are checked using the indoor unit PCB (A1P). |
| Error Decision Conditions | Communication data of fan PCB (A2P) is determined as incorrect. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Defective fan PCB (A2P). ■ Defective connection of capacity setting adaptor ■ Defective setting error |

Troubleshooting


Caution

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



5.23 Blower Motor HP Mismatch

| | |
|----------------------------------|---|
| Error Code | C6-01 |
| Applicable Models | FTQ-TA, FTQ-TB |
| Outline | Error is issued if the manufacturer ID and output of the connected fan motor do not match those recognized by the indoor unit. |
| Error Decision Conditions | Gathers information on the manufacturer ID and output of the fan motor when initializing the fan motor. If those figures are not the values recognized by the indoor unit, it will be deemed abnormal operation. If deemed abnormal operation, it will keep retrying until the figures match. |
| Error Reset Conditions | If the manufacturer ID and output match, the error will be cleared. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Incorrect size motor ■ Indoor unit capacity setting error |
| Corrective Actions | <ul style="list-style-type: none"> ■ Correct motor installation. ■ Correct the indoor unit capacity setting. |

5.24 Indoor Blower Does Not Have Required Parameters to Function

| | |
|----------------------------------|---|
| Error Code | C6-02 |
| Applicable Models | FTQ-TA, FTQ-TB |
| Outline | Indoor units perform required settings for control on the fan motor, but if the minimum required settings are not made then information indicating as such will be included among the periodic control status information. Error is issued when the information shows abnormality. |
| Error Decision Conditions | If the parameter information shows abnormality, it will be deemed abnormal operation. At that point, parameter settings when initializing the fan motor will be implemented from the beginning. |
| Error Reset Conditions | If the parameter information is normal, the error will be cleared. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Locked motor rotor condition |
| Corrective Actions | <ul style="list-style-type: none"> ■ Check for locked rotor condition. ■ Replace the indoor unit PCB or motor. |

5.25 Remote Sensor Abnormality

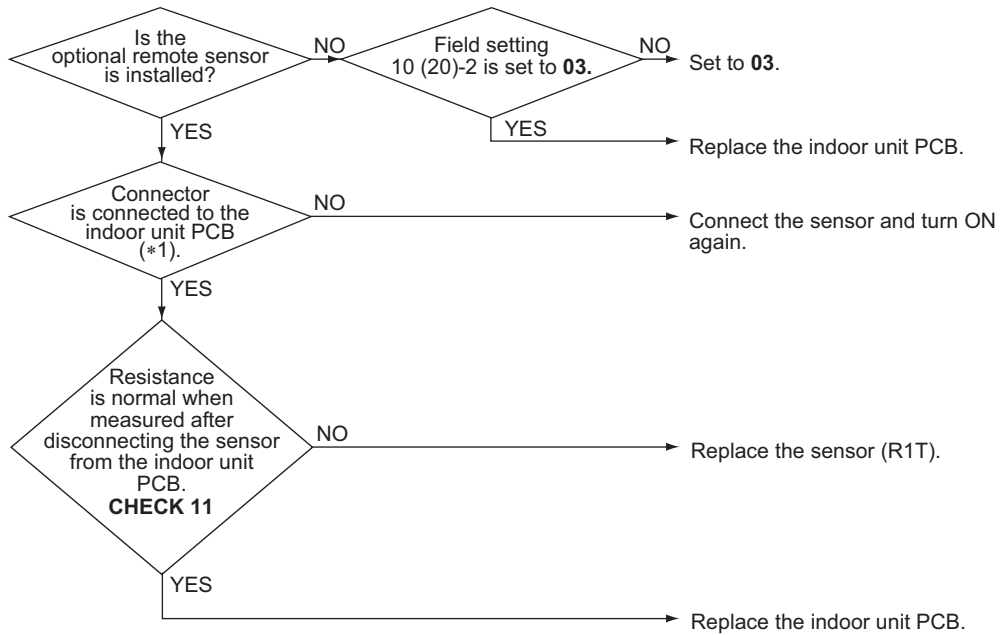
| | |
|----------------------------------|--|
| Error Code | C9 |
| Applicable Models | FTQ-TA, FTQ-TB |
| Method of Error Detection | The error is detected by remote sensor temperature. |
| Error Decision Conditions | When the remote sensor becomes disconnected or shorted while the unit is running. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Defective indoor unit thermistor (R1T) for room temperature ■ Defective indoor unit PCB |

Troubleshooting



Caution

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



Note(s)

*1. Connector and indoor unit PCB

| | |
|-----------------------------|-----|
| Connector for remote sensor | PCB |
| X4A | A1P |



Reference

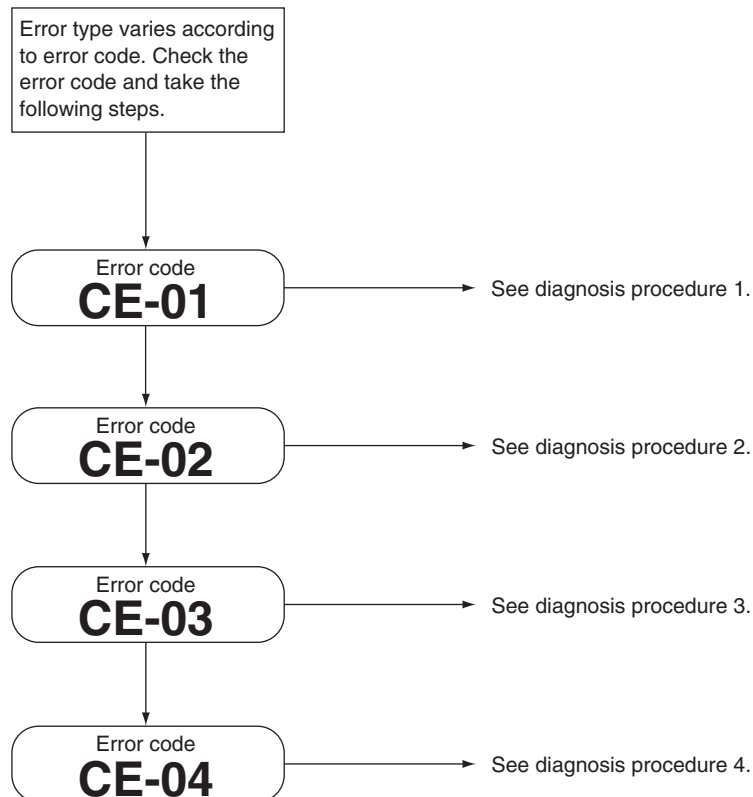
CHECK 11 Refer to page 379.

5.26 Infrared Presence/Floor Sensor Error

| | |
|----------------------------------|---|
| Error Code | CE |
| Applicable Models | FCQ-TA, FCQ-AA |
| Method of Error Detection | The contents of a failure vary with the detailed error code. Check the code and proceed with the flowchart. |
| Error Decision Conditions | Error is detected based on sensor output signals |
| Supposed Causes | <ul style="list-style-type: none"> ■ Defective or disconnected infrared presence sensor connector: CE-01 ■ Defective infrared floor sensor (Temperature compensation circuit disconnection): CE-02 ■ Defective infrared floor sensor (Temperature compensation short circuit): CE-03 ■ Defective infrared floor sensor element: CE-04 |
| Troubleshooting | |

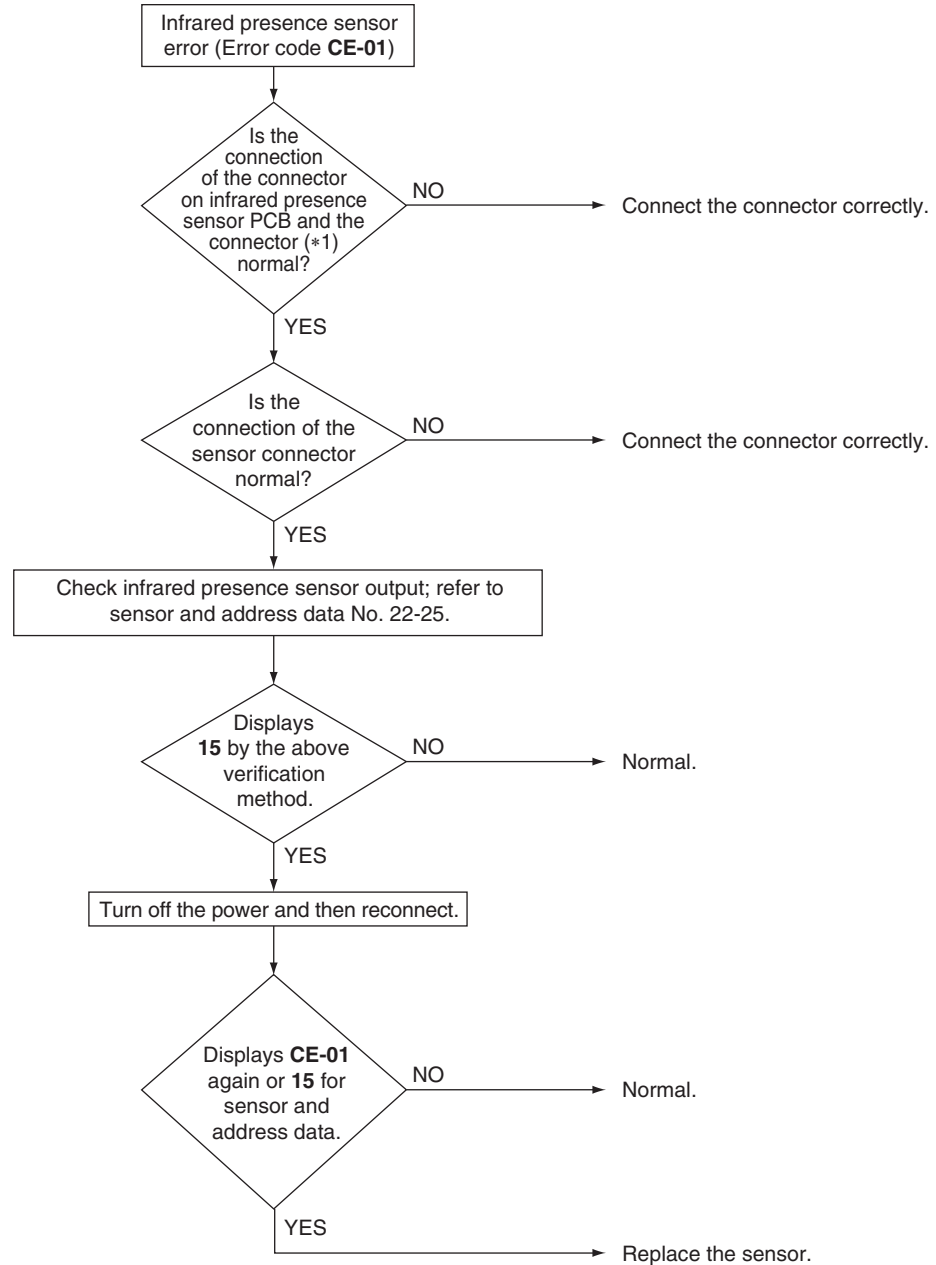

Caution

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



Troubleshooting

Diagnosis procedure 1



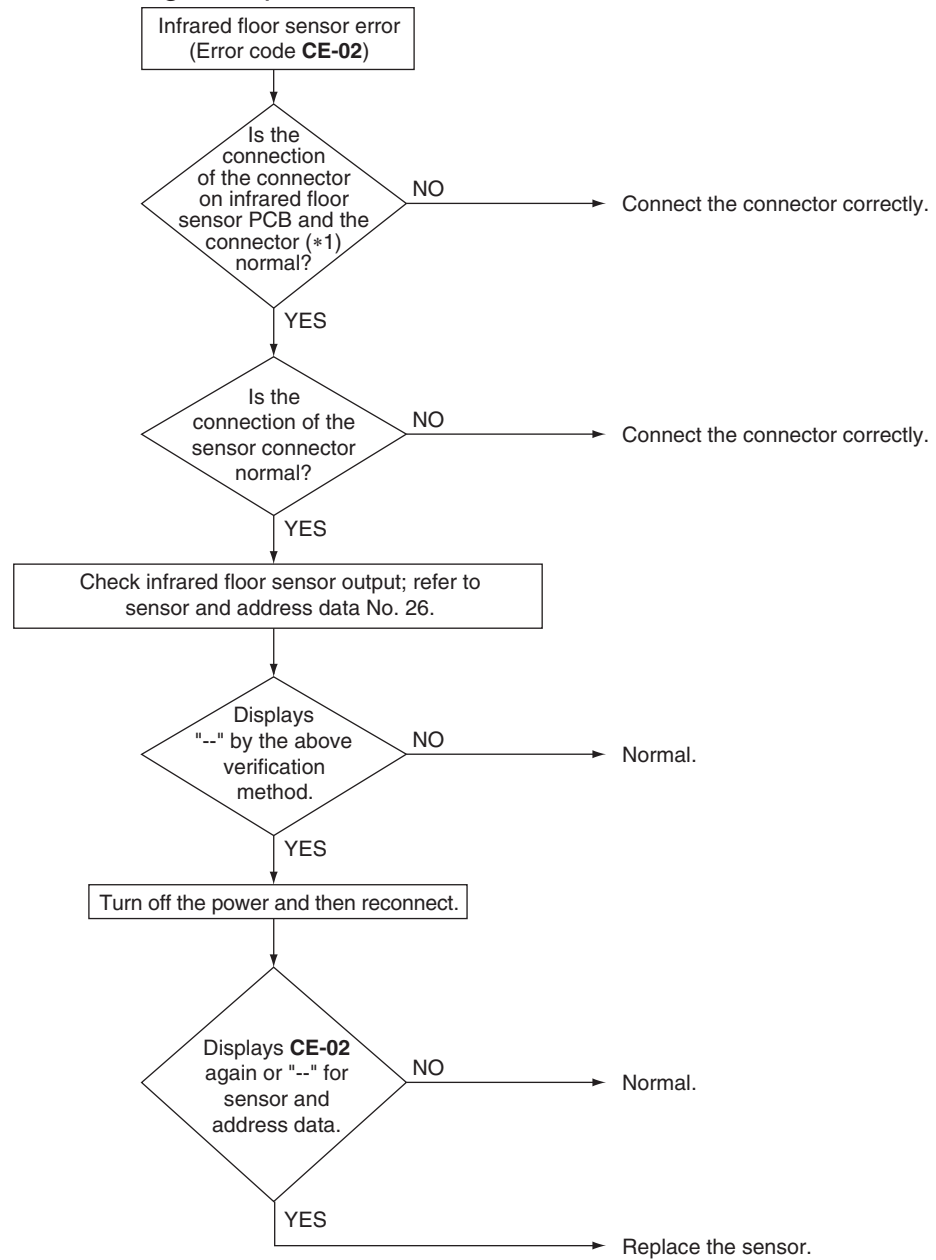
Note(s)

*1. Infrared presence sensor PCB and connector

| Model | Infrared presence sensor PCB | Connector |
|--------|------------------------------|------------|
| FCQ-TA | A4P | X2A (A2P) |
| FCQ-AA | A3P | X81A (A1P) |

Troubleshooting

Diagnosis procedure 2



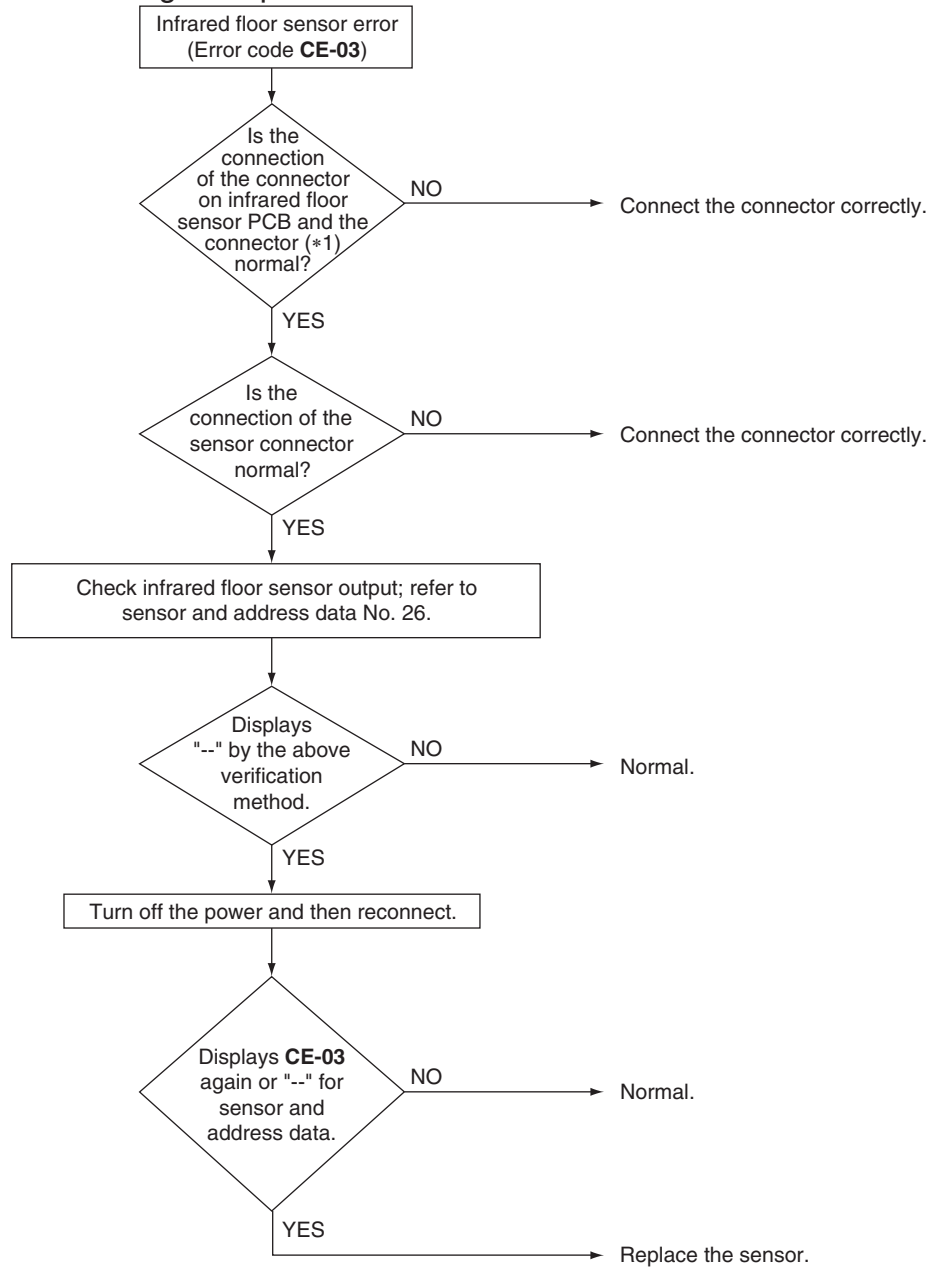
Note(s)

*1. Infrared floor sensor PCB and connector

| Model | Infrared floor sensor PCB | Connector |
|--------|---------------------------|------------|
| FCQ-TA | A3P | X2A (A2P) |
| FCQ-AA | A2P | X81A (A1P) |

Troubleshooting

Diagnosis procedure 3



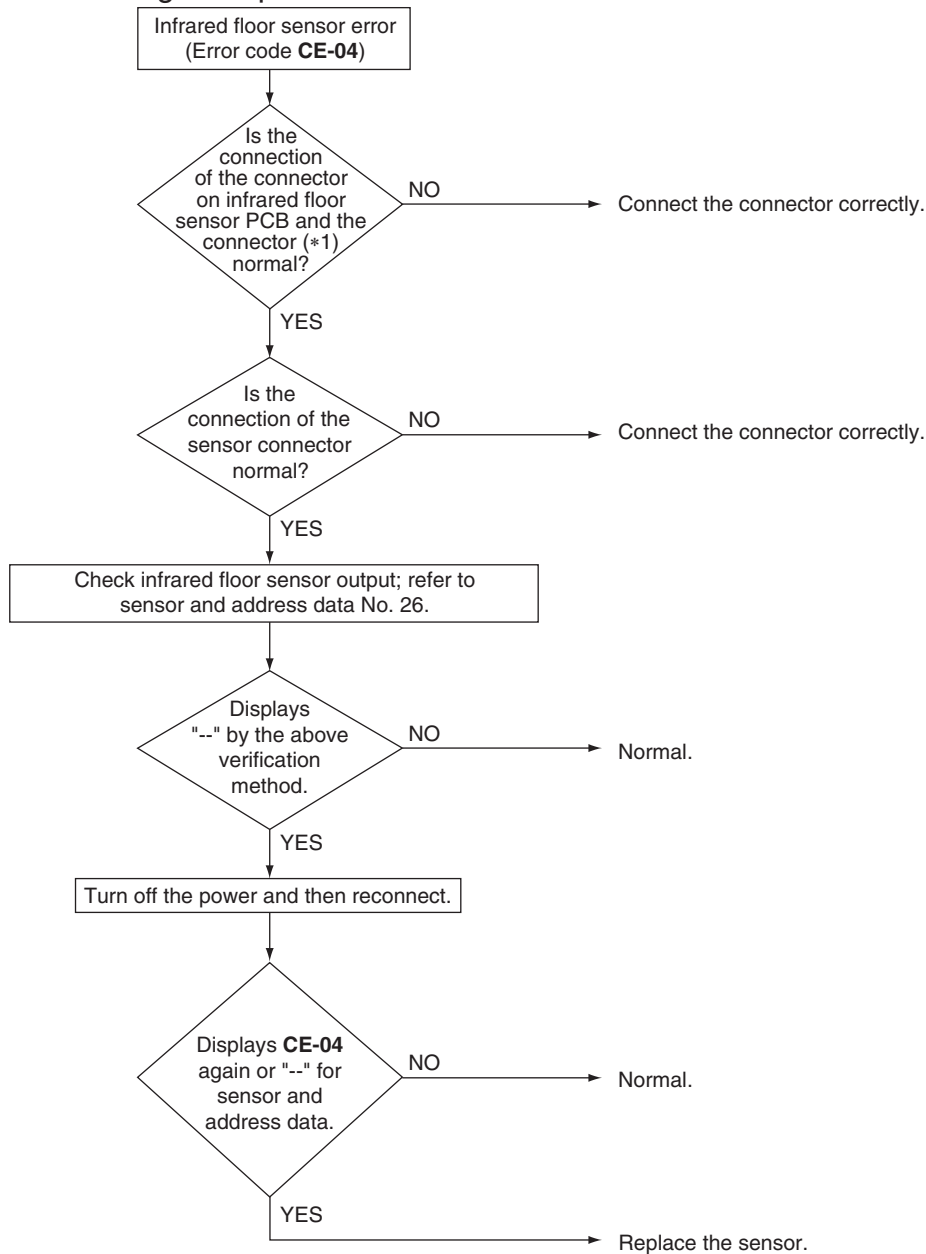
Note(s)

*1. Infrared floor sensor PCB and connector

| Model | Infrared floor sensor PCB | Connector |
|--------|---------------------------|------------|
| FCQ-TA | A3P | X2A (A2P) |
| FCQ-AA | A2P | X81A (A1P) |

Troubleshooting

Diagnosis procedure 4



Note(s)

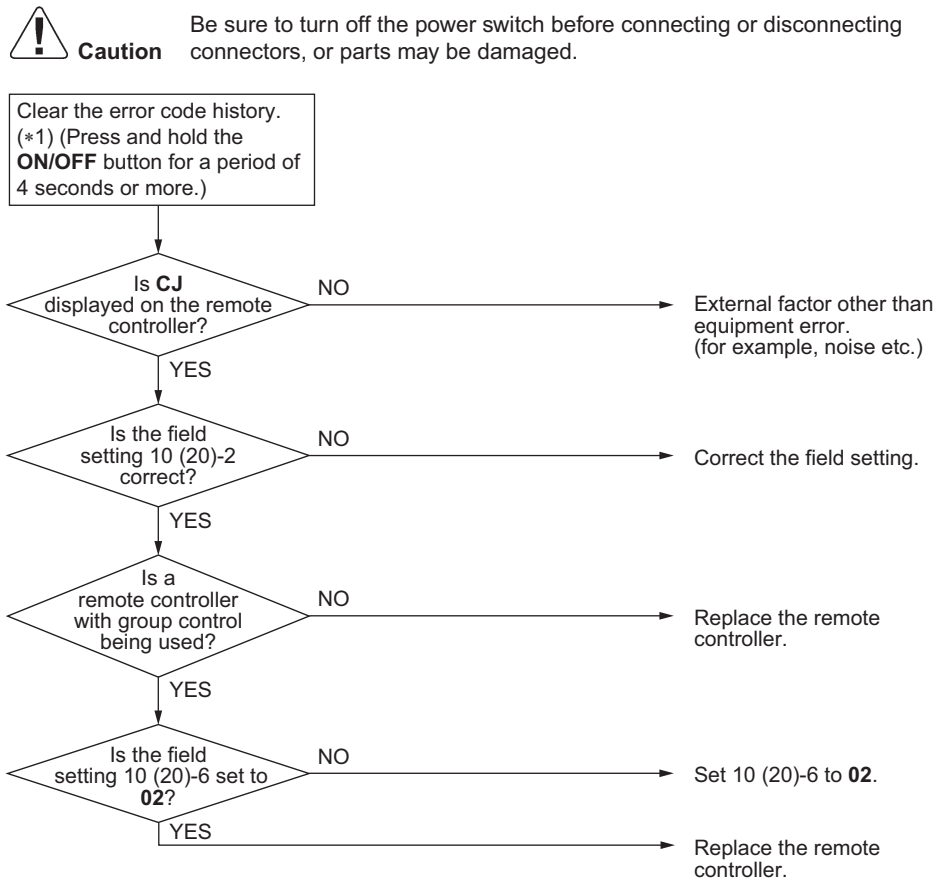
*1. Infrared floor sensor PCB and connector

| Model | Infrared floor sensor PCB | Connector |
|--------|---------------------------|------------|
| FCQ-TA | A3P | X2A (A2P) |
| FCQ-AA | A2P | X81A (A1P) |

5.27 Remote Controller Thermistor Abnormality

| | |
|----------------------------------|--|
| Error Code | CJ |
| Applicable Models | All indoor models |
| Method of Error Detection | Error detection is carried out by the temperature detected by remote controller thermistor. |
| Error Decision Conditions | When the remote controller thermistor becomes disconnected or shorted while the unit is running. * Error code is displayed but the system operates continuously. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Defective remote controller thermistor ■ Defective remote controller PCB ■ External factor (Noise, etc.) |

Troubleshooting

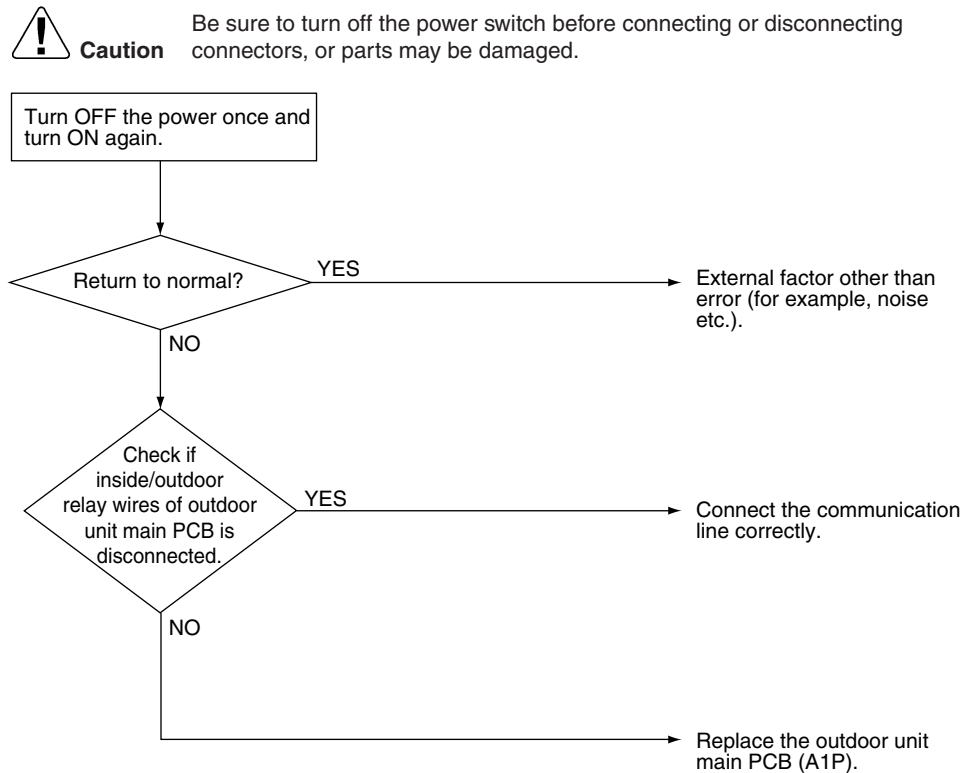


 **Note(s)**

- *1. How to delete the history of error codes.
Press the **ON/OFF** button for 4 seconds and more while the error code is displayed.

5.28 Outdoor Main PCB Abnormality

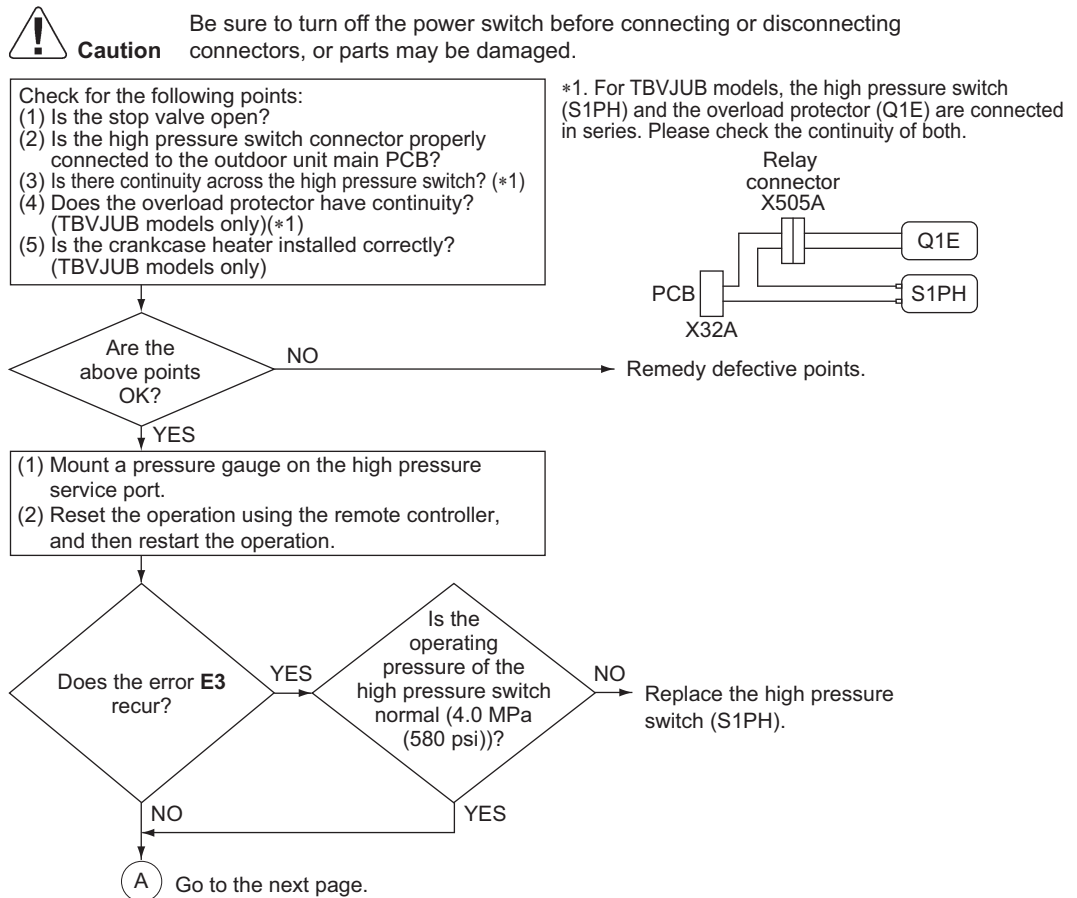
| | |
|----------------------------------|--|
| Error Code | E1 |
| Applicable Models | All outdoor units |
| Method of Error Detection | Abnormality is detected under the communication conditions in the hardware section between the indoor unit and outdoor unit. |
| Error Decision Conditions | When the communication conditions in the hardware section between the indoor unit and the outdoor unit are not normal. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Defective outdoor unit main PCB (A1P) ■ Disconnection of the inside/outside relay wires |
| Troubleshooting | |

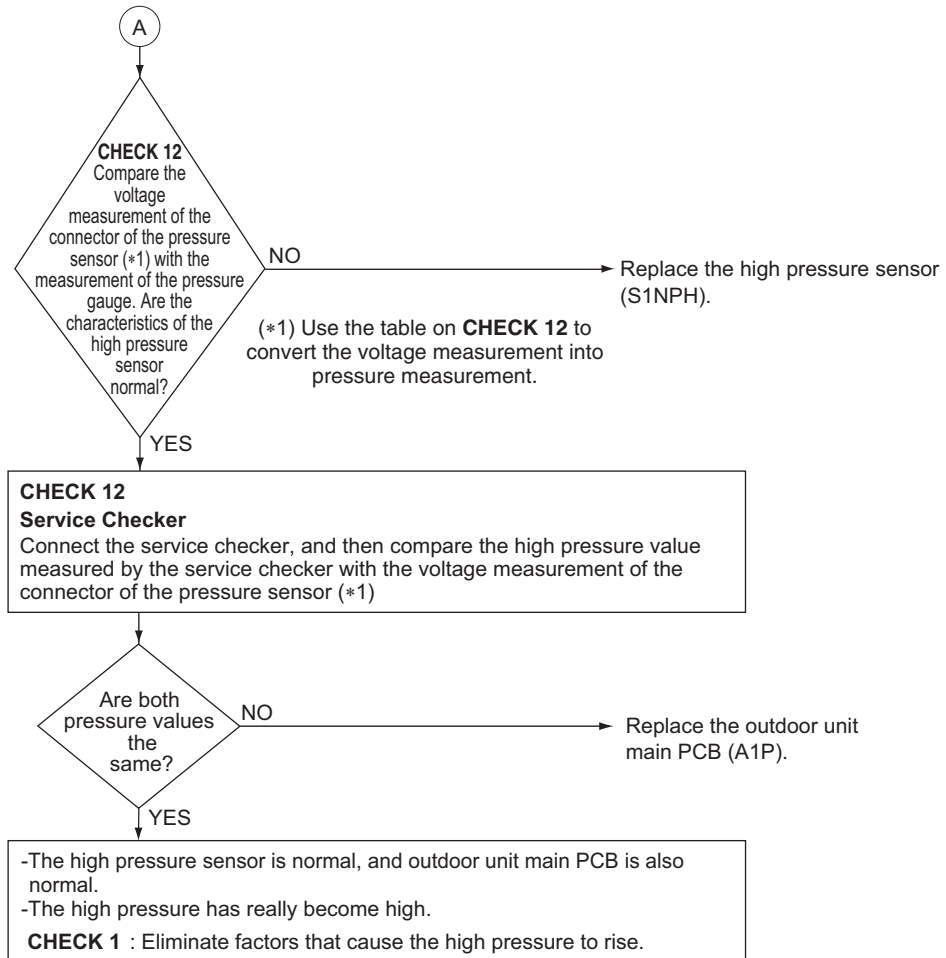


5.29 Activation of High Pressure Switch

| | |
|----------------------------------|--|
| Error Code | E3 |
| Applicable Models | All outdoor units |
| Method of Error Detection | Abnormality is detected when the contact of the high pressure switch opens. Use the protection device circuit to test high pressure switch conduction. |
| Error Decision Conditions | Part of the protection device has an open circuit. Error is generated when the high pressure switch activation count reaches the number specific to the operation mode. Reference Operating pressure: 4.0 MPa (580 psi) Reset pressure: 3.0 MPa (435 psi) |
| Supposed Causes | <ul style="list-style-type: none"> ■ Activation of outdoor unit high pressure switch ■ Defective high pressure switch ■ Defective outdoor unit main PCB ■ Defective overload protector (TBVJUB models only) ■ Instantaneous power failure ■ Defective high pressure sensor ■ Contact of crankcase heater to overload protector (TBVJUB models only) |

Troubleshooting





Reference **CHECK 1** Refer to page 368.



Reference **CHECK 12** Refer to page 382.

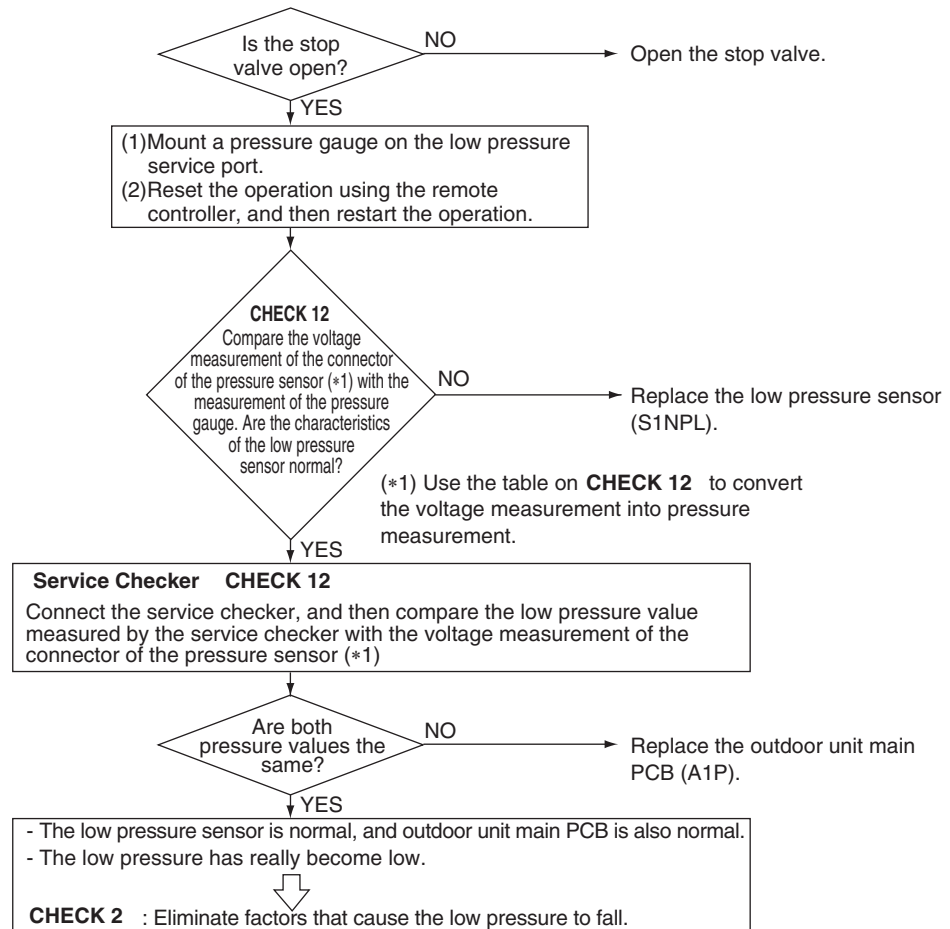
5.30 Activation of Low Pressure Sensor

| | |
|----------------------------------|---|
| Error Code | E4 |
| Applicable Models | All outdoor units |
| Method of Error Detection | Abnormality is detected by the pressure value with the low pressure sensor. Use the outdoor main PCB to determine the low pressure sensor pressure test value. |
| Error Decision Conditions | Error is generated when the low pressure drops below a specific pressure level. Low pressure drops after compressor activation. Operating pressure: 0.07 MPa (10.2 psi) |
| Supposed Causes | <ul style="list-style-type: none"> ■ Abnormal drop of low pressure ■ Defective low pressure sensor ■ Defective outdoor unit main PCB ■ Stop valve is not opened |

Troubleshooting



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



Reference **CHECK 2** Refer to page 369.



Reference **CHECK 12** Refer to page 382.

5.31 Compressor Motor Lock

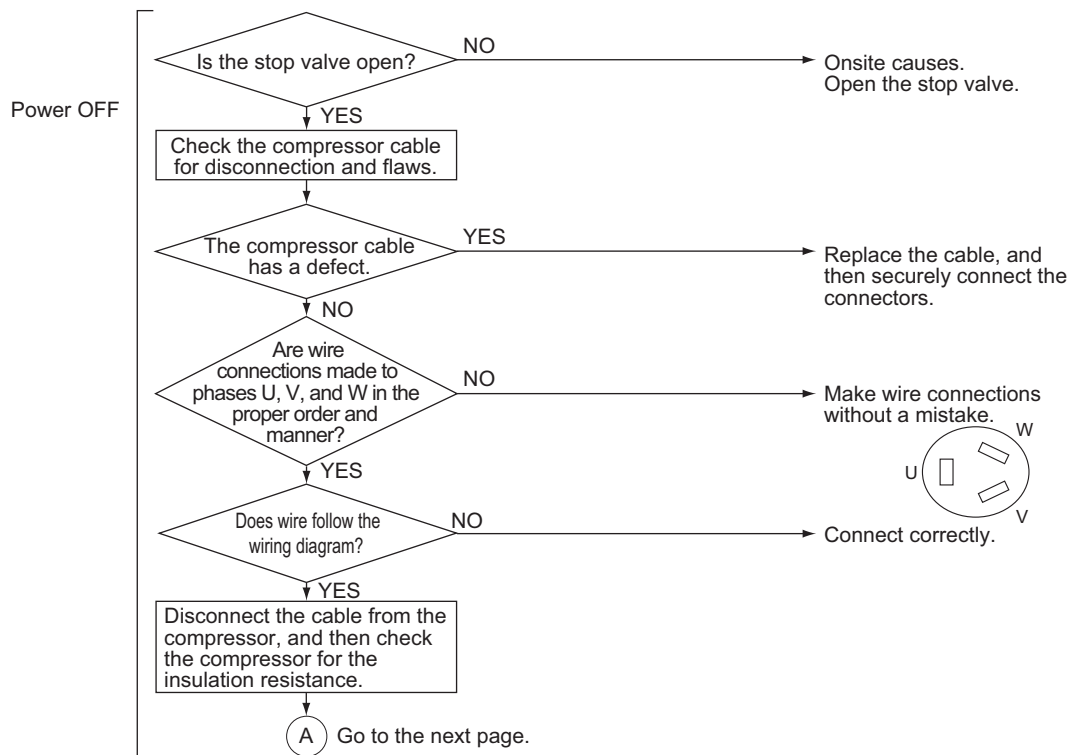
| | |
|----------------------------------|---|
| Error Code | E5 |
| Applicable Models | All outdoor units |
| Method of Error Detection | PCB takes the position signal from UVW line connected between the inverter and compressor, and the error is detected when any abnormality is observed in the phase-current waveform. |
| Error Decision Conditions | This error will be output when the compressor motor does not start up even in forced startup mode. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Compressor lock ■ High differential pressure (0.5 MPa (72.5 psi) and above) ■ Incorrect UVW wiring ■ Defective PCB ■ Stop valve is not opened |

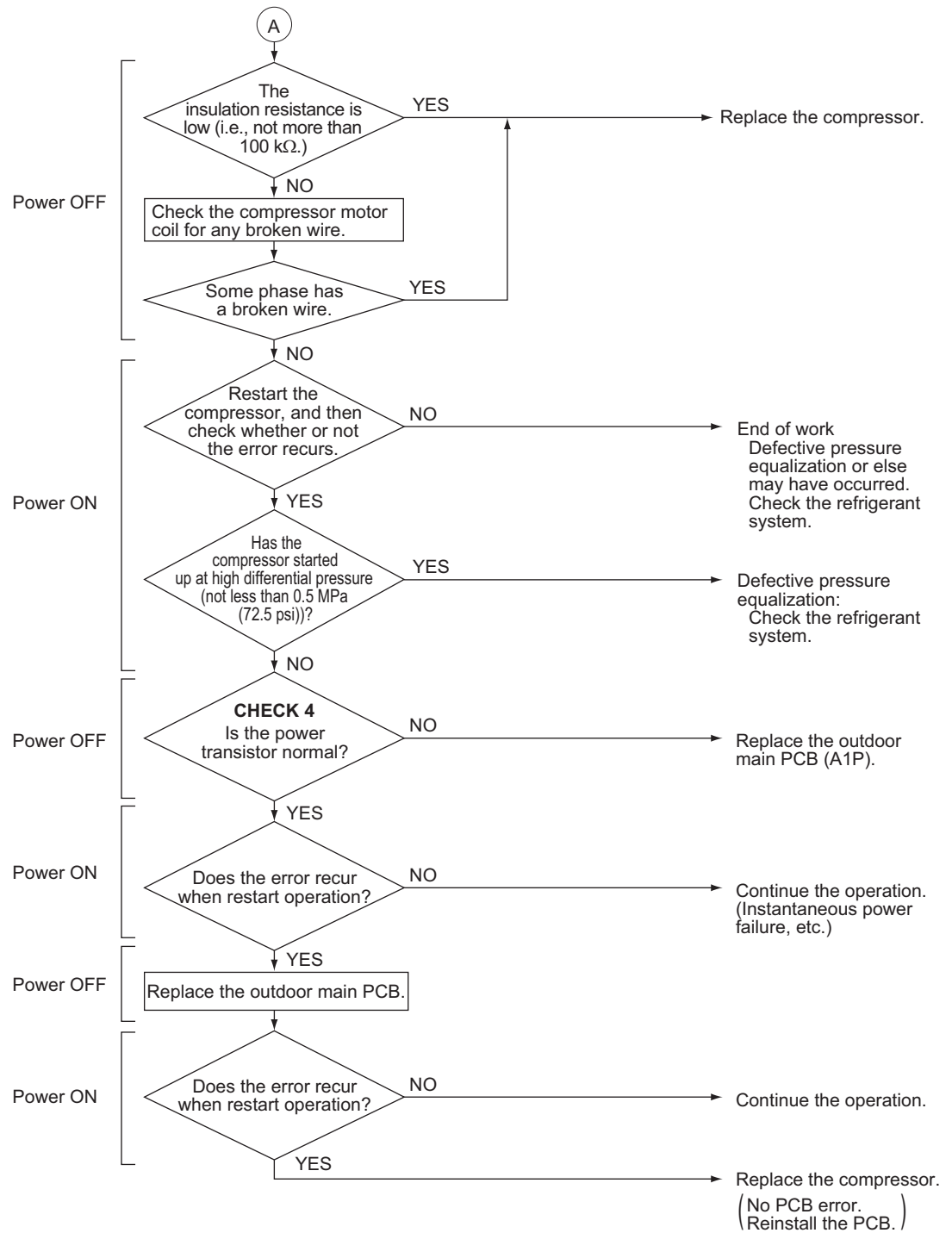
Troubleshooting



Caution

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





Reference

CHECK 4 Refer to page 373.

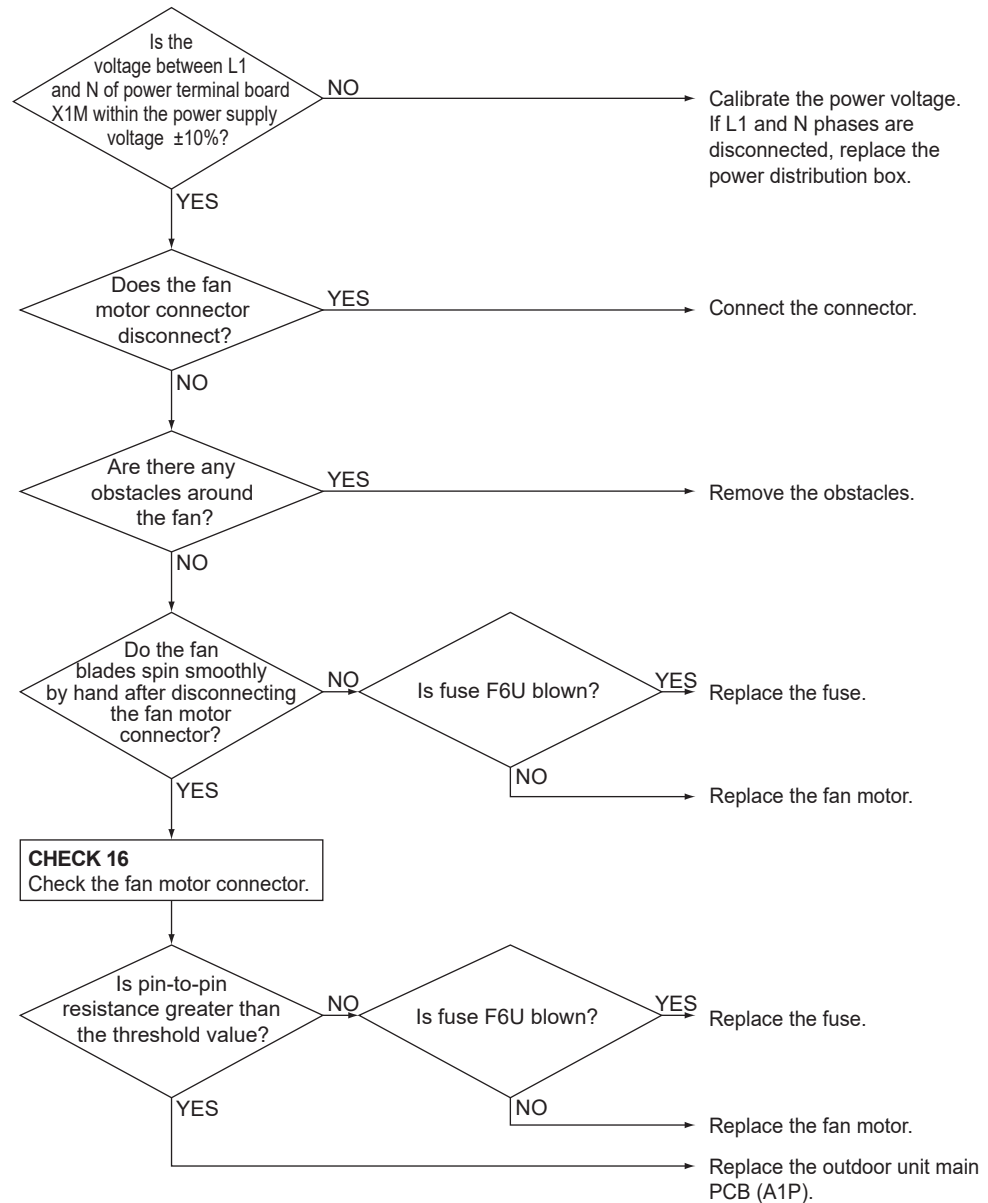
5.32 Outdoor Fan Motor Abnormality

| | |
|----------------------------------|--|
| Error Code | E7 |
| Applicable Models | All outdoor units |
| Method of Error Detection | The fan motor circuit error is detected based on the rotation frequency detected by Hall IC during the fan motor operation. |
| Error Decision Conditions | In the condition of fan motor rotation, the number of rotation is below the fixed number for more than 6 seconds. (System down is caused by 4 times of detection.) |
| Supposed Causes | <ul style="list-style-type: none">■ Defective fan motor■ Defect or connection error of the connectors/harness between the fan motor and PCB■ The fan cannot rotate due to obstruction of foreign matter.■ Clear condition: Continue normal operation for 5 minutes■ Missing phase L1 and missing phase N |

Troubleshooting

**Caution**

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



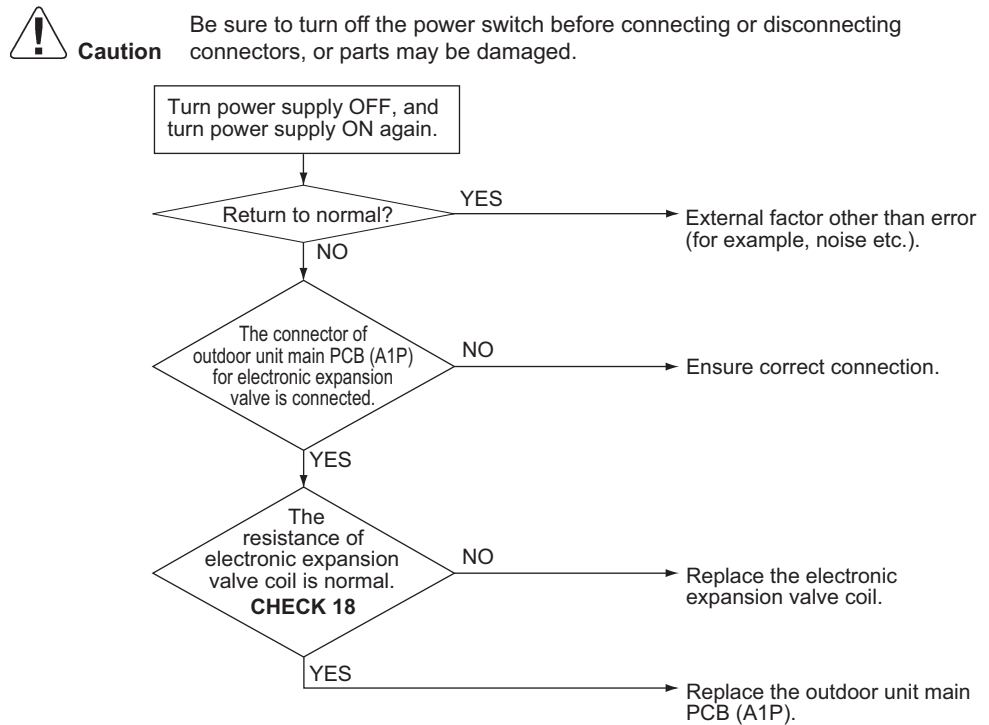
Reference

CHECK 16 Refer to page 384.

5.33 Electronic Expansion Valve Coil Abnormality

| | |
|----------------------------------|--|
| Error Code | E9 |
| Applicable Models | All outdoor units |
| Method of Error Detection | Check continuity of electronic expansion valve coil. |
| Error Decision Conditions | No current is detected in the common (COM [+]) when power supply is ON. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Defective electronic expansion valve coil ■ Defective outdoor unit main PCB ■ Disconnection of connectors for electronic expansion valve |

Troubleshooting



Reference CHECK 18 Refer to page 386.

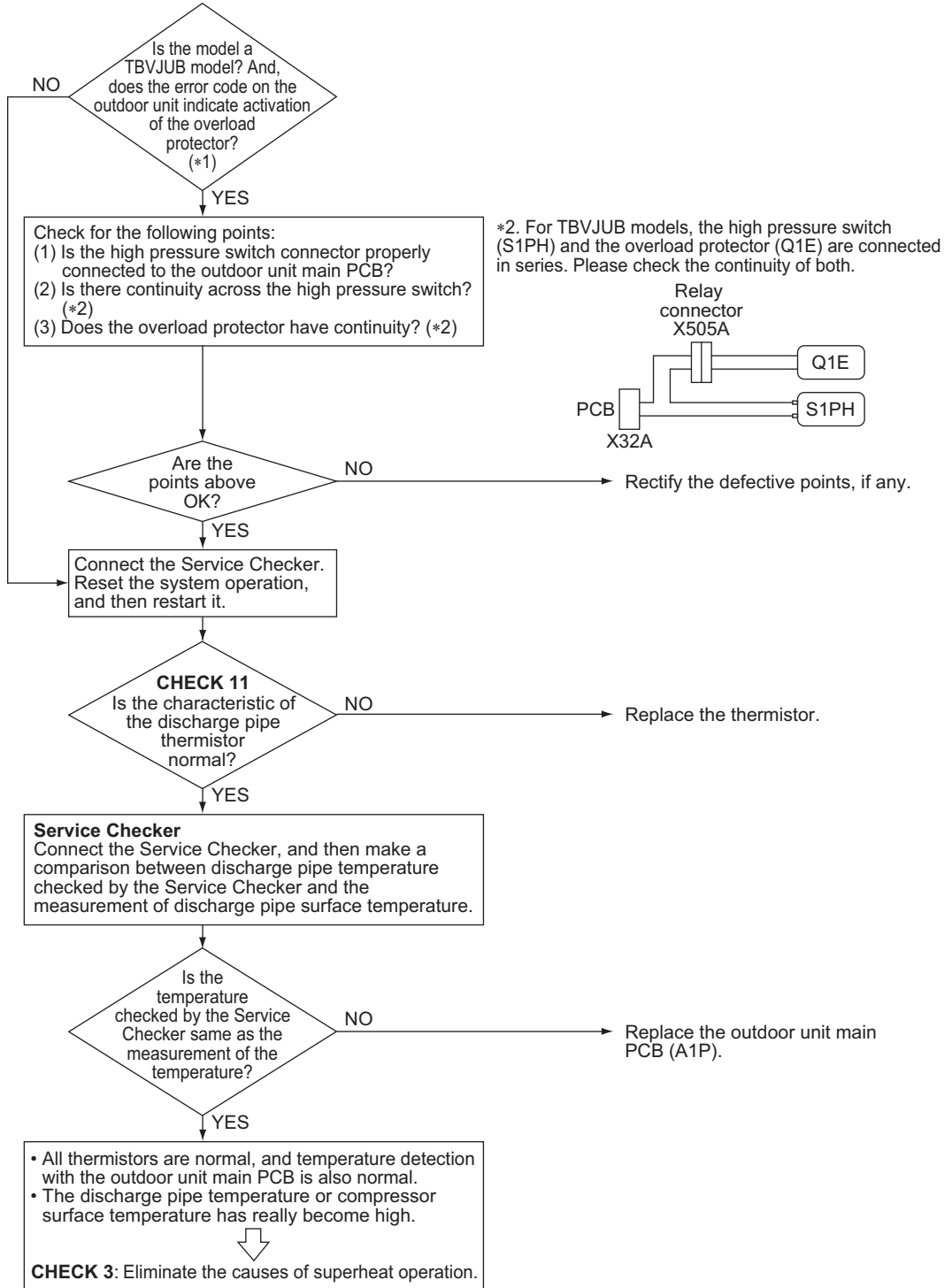
5.34 Discharge Pipe Temperature Abnormality

| | |
|----------------------------------|--|
| Error Code | F3 |
| Applicable Models | All outdoor units |
| Method of Error Detection | Abnormality is detected according to the temperature detected by the discharge pipe thermistor. |
| Error Decision Conditions | <ul style="list-style-type: none">■ The discharge pipe temperature rises to an abnormally high level.■ The discharge pipe temperature rises suddenly.■ Error is detected when overload protector for Q1 is activated at the operating temperature of $125\pm 3^{\circ}\text{C}$ ($257\pm 5.4^{\circ}\text{F}$) (TBVJUB models only). |
| Supposed Causes | <ul style="list-style-type: none">■ Defective discharge pipe thermistor (R2T)■ Disconnection of discharge pipe thermistor (R2T)■ Defective outdoor unit PCB■ Activation of overload protector (TBVJUB models only)■ Defective overload protector (TBVJUB models only)■ Defective high pressure switch (TBVJUB models only) |

Troubleshooting



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



Note(s)

*1. Refer to page 272 for error code indication by outdoor unit PCB.



Reference

CHECK 3 Refer to page 371.



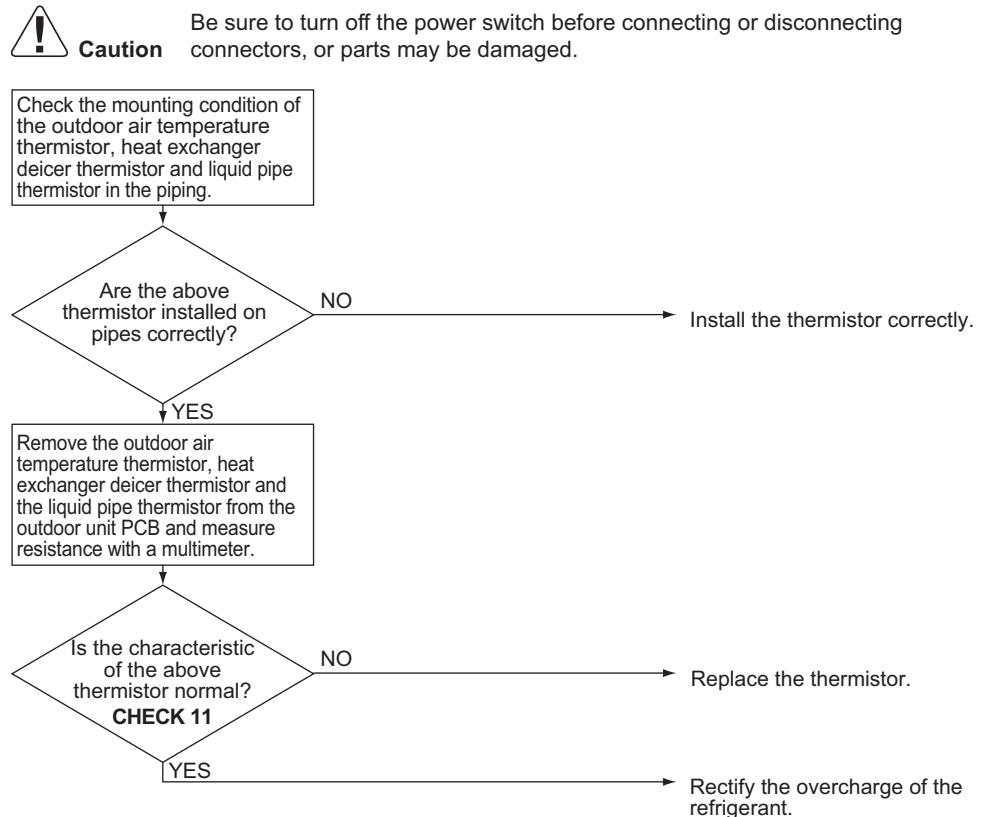
Reference

CHECK 11 Refer to page 379.

5.35 Refrigerant Overcharged

| | |
|----------------------------------|---|
| Error Code | F6 |
| Applicable Models | All outdoor units |
| Method of Error Detection | Excessive charging of refrigerant is detected by using the outdoor air temperature, heat exchanger deicer temperature and liquid pipe temperature during a check operation. |
| Error Decision Conditions | During a check operation, the amount of refrigerant will be calculated based on the outdoor temperature, the heat exchanger deicer temperature, and the liquid pipe temperature. If the calculated amount exceeds the normal amount by 30%, too much refrigerant has been added. (Adding only slightly more than the normal amount of refrigerant may also cause F6 to be displayed) |
| Supposed Causes | <ul style="list-style-type: none"> ■ Refrigerant overcharge ■ Disconnection of outdoor air thermistor, heat exchanger deicer thermistor, liquid pipe thermistor ■ Defective outdoor air thermistor, heat exchanger deicer thermistor, liquid pipe thermistor |

Troubleshooting



Reference

CHECK 11 Refer to page 379.

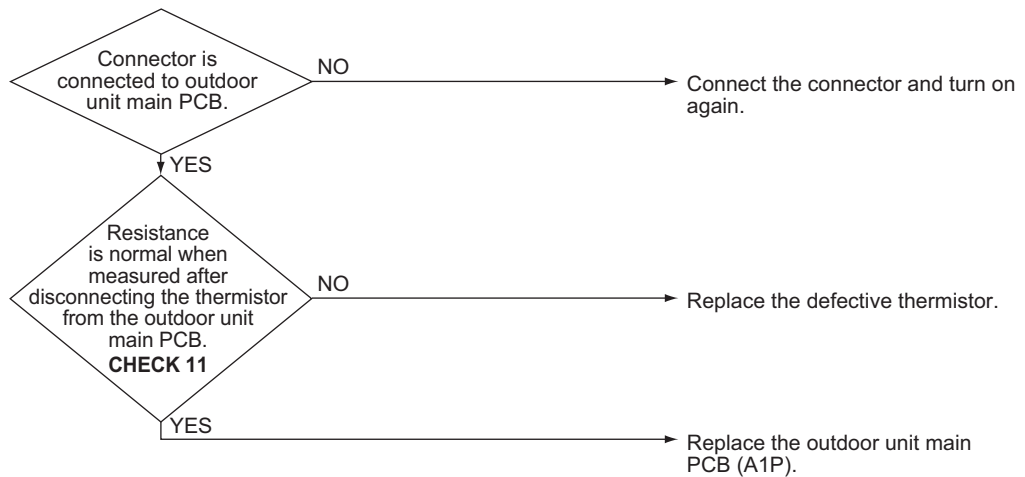
5.36 Thermistor Abnormality

| | |
|----------------------------------|---|
| Error Code | H9, J3, J5, J6, J7, J9 |
| Applicable Models | All outdoor units |
| Method of Error Detection | Error is detected from the temperature detected by the thermistor (*1). |
| Error Decision Conditions | The thermistor has short circuit or open circuit. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Defective thermistor ■ Defective outdoor unit main PCB ■ Disconnection of thermistor. |

Troubleshooting



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



Reference **CHECK 11** Refer to page 379.



Note(s) *1. Thermistor

| Error code | Thermistor | 18/24 class | | 30-48 class | |
|------------|---|-------------|-----------|-------------|-----------|
| | | Symbol | Connector | Symbol | Connector |
| H9 | Outdoor air thermistor | R1T | X11A | R1T | X11A |
| J3 | Discharge pipe thermistor | R2T | X12A | R2T | X12A |
| J5 | Suction pipe thermistor | R3T | | R3T | |
| | | R5T | | R5T | |
| J6 | Outdoor heat exchanger deicer thermistor | R4T | | R4T | |
| J7 | Outdoor heat exchanger liquid pipe thermistor | R7T | X13A | R7T | X13A |
| J9 | Subcooling heat exchanger gas pipe | — | — | R6T | |

5.37 High Pressure Sensor Abnormality

Error Code

JA

Applicable Models

All outdoor units

Method of Error Detection

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

Error Decision Conditions

The high pressure sensor is short circuit or open circuit.
 Pressure range: 0-4.3 MPa (0-624 psi)

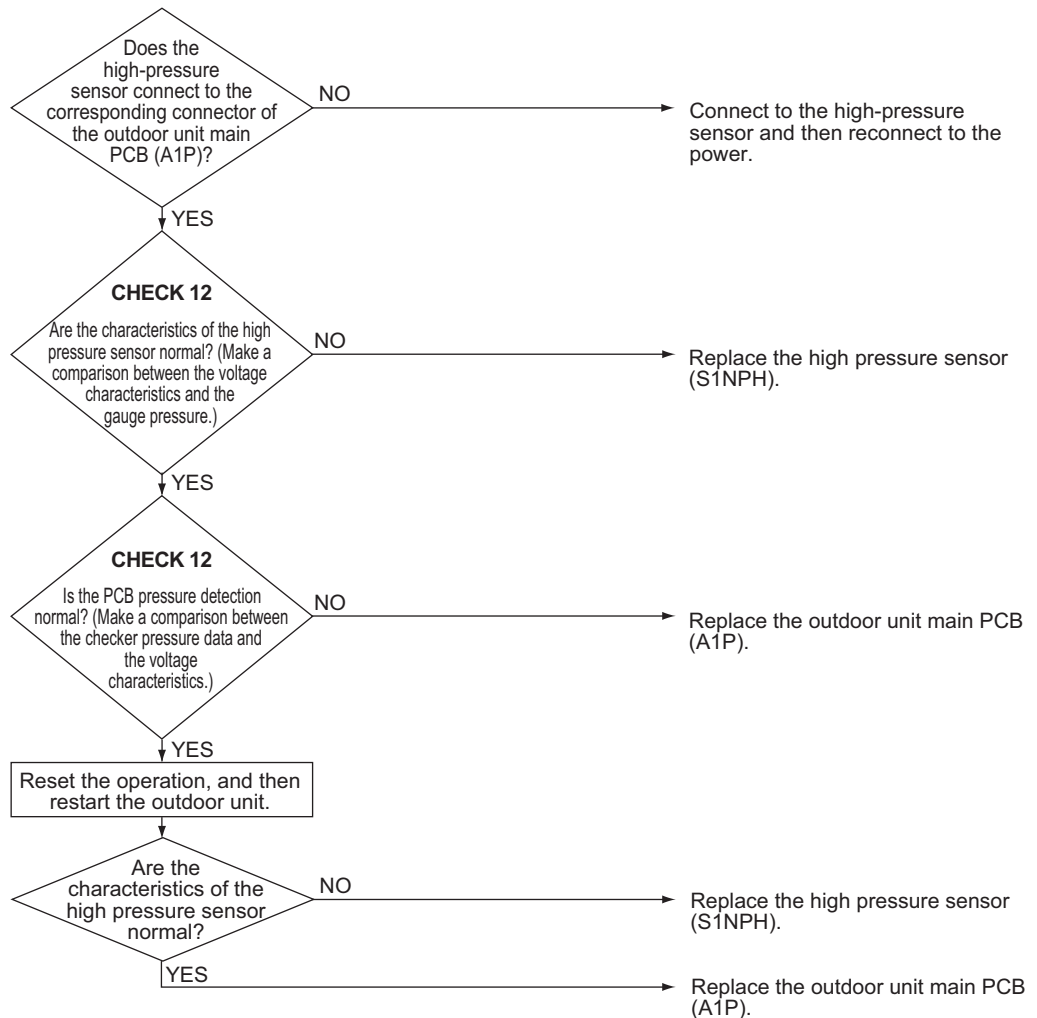
Supposed Causes

- Defective high pressure sensor
- Connection of low pressure sensor with wrong connection
- Defective outdoor unit main PCB
- Disconnection of high pressure sensor

Troubleshooting

**Caution**

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



Reference

CHECK 12 Refer to page 382.

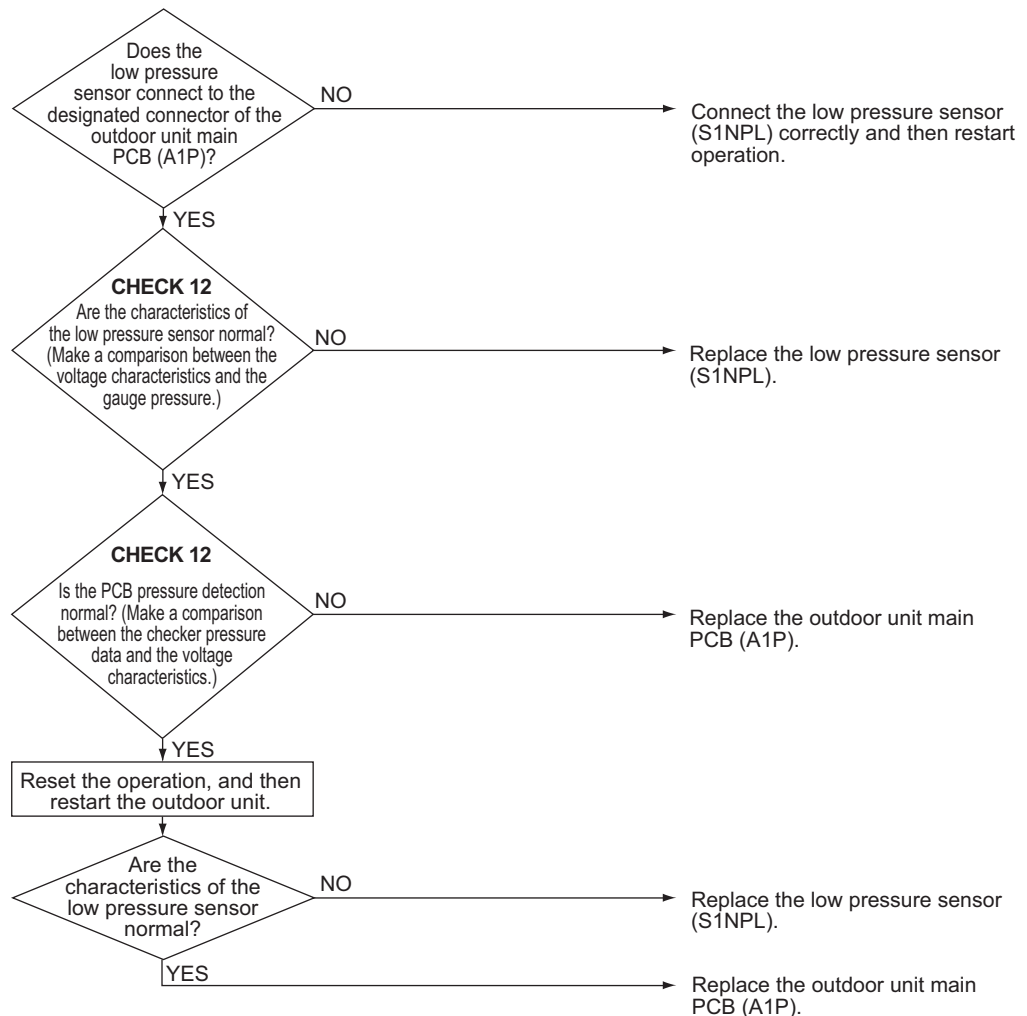
5.38 Low Pressure Sensor Abnormality

| | |
|----------------------------------|---|
| Error Code | JC |
| Applicable Models | All outdoor units |
| Method of Error Detection | Error is detected from pressure detected by low pressure sensor. |
| Error Decision Conditions | The low pressure sensor is short circuit or open circuit. Pressure range: 0-1.7 MPa (0-247 psi) |
| Supposed Causes | <ul style="list-style-type: none"> ■ Defective low pressure sensor ■ Connection of high pressure sensor with wrong connection ■ Defective outdoor main PCB ■ Disconnection of low pressure sensor |

Troubleshooting



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



Reference

CHECK 12 Refer to page 382.

5.39 Inverter PCB Abnormality

| | |
|----------------------------------|--|
| Error Code | L1 |
| Applicable Models | All outdoor units |
| Method of Error Detection | <ul style="list-style-type: none"> ■ Error is detected based on the current value during waveform output before starting compressor. ■ Error is detected based on the value from current sensor during synchronous operation when starting the unit. |
| Error Decision Conditions | <ul style="list-style-type: none"> ■ Overcurrent (OCP) flows during waveform output. ■ Error of current sensor during synchronous operation. ■ IPM failure. |
| Supposed Causes | <ul style="list-style-type: none"> ■ IPM failure ■ Current sensor failure ■ Drive circuit failure |

Troubleshooting


Caution

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

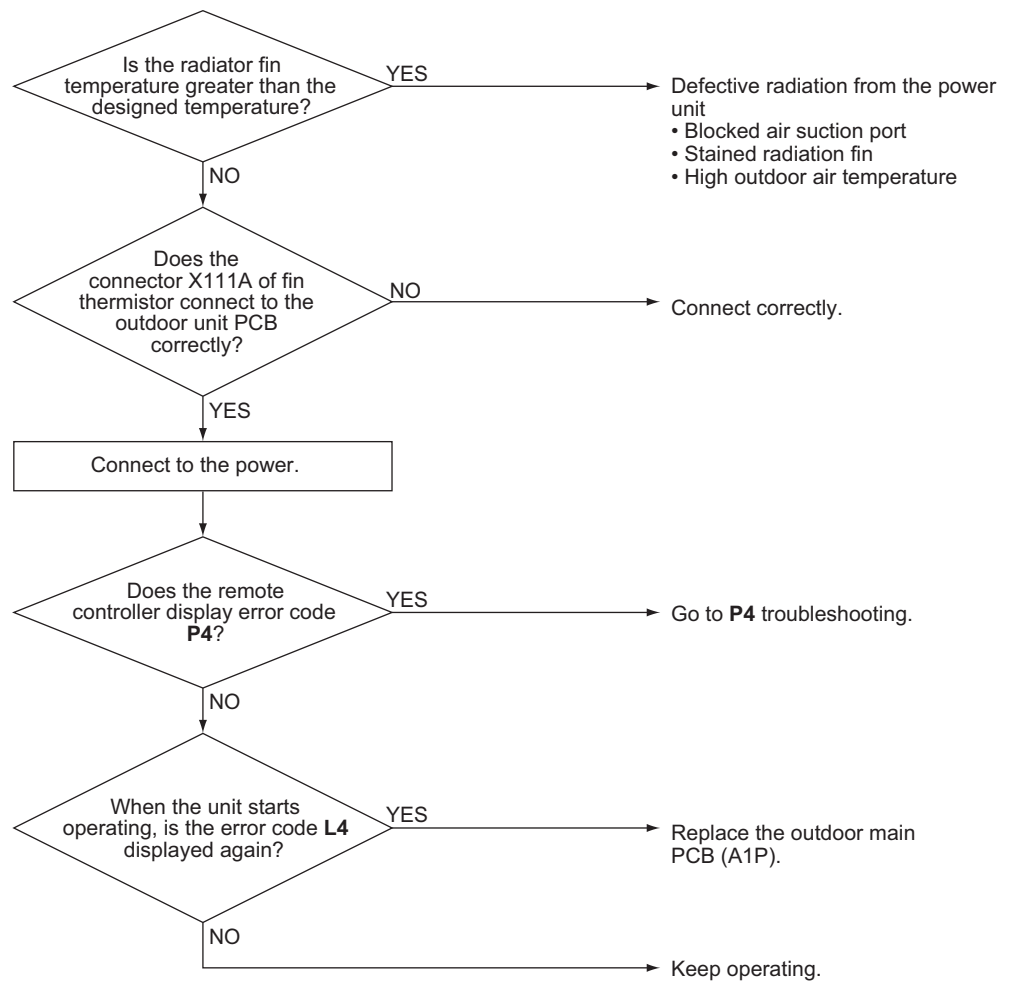


5.40 Radiation Fin Temperature Rise Abnormality

| | |
|----------------------------------|--|
| Error Code | L4 |
| Applicable Models | All outdoor units |
| Method of Error Detection | The radiation fin temperature is detected by the radiation fin thermistor. |
| Error Decision Conditions | The radiation fin temperature exceeds a certain temperature. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Activation of radiation fin thermistor ■ Defective outdoor main PCB ■ Defective radiation fin thermistor |
| Troubleshooting | |



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



5.41 Compressor Instantaneous Overcurrent

Error Code

L5

Applicable Models

All outdoor units

Method of Error Detection

Error is detected from current flowing in the power transistor.

Error Decision Conditions

An excessive current flows in the power transistor.

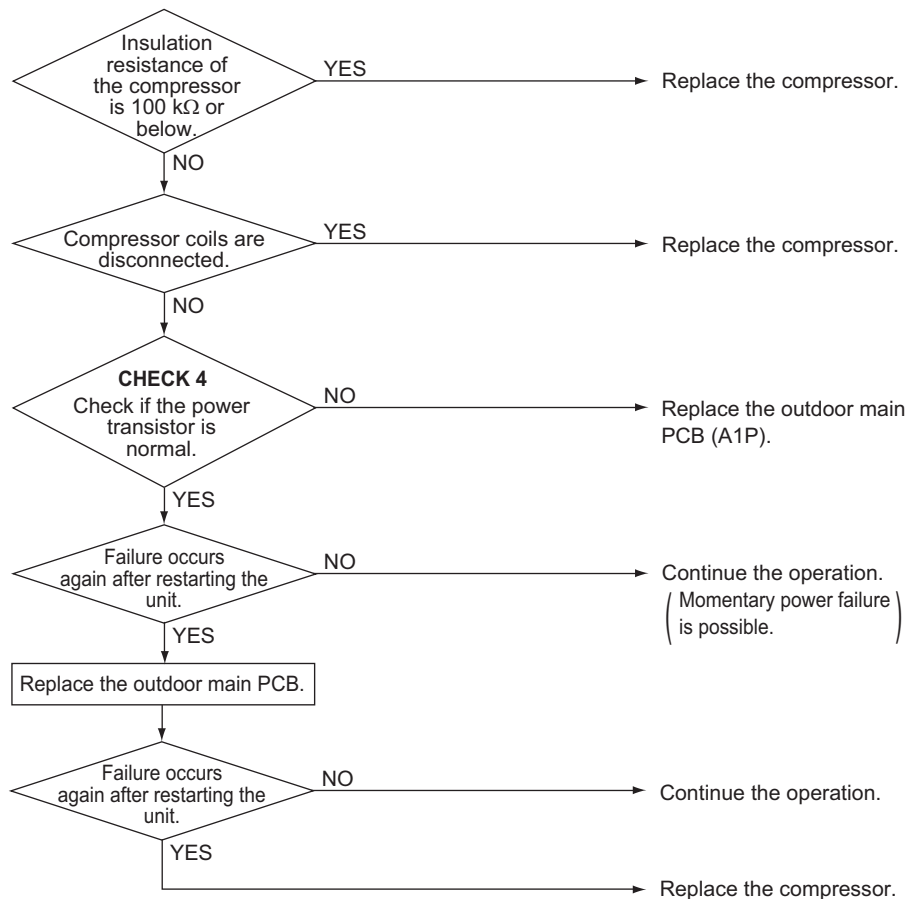
Supposed Causes

- Defective compressor coil (disconnected, defective insulation)
- Defective compressor startup (mechanical lock)
- Defective PCB

Troubleshooting

**Caution**

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



Reference

CHECK 4 Refer to page 373.

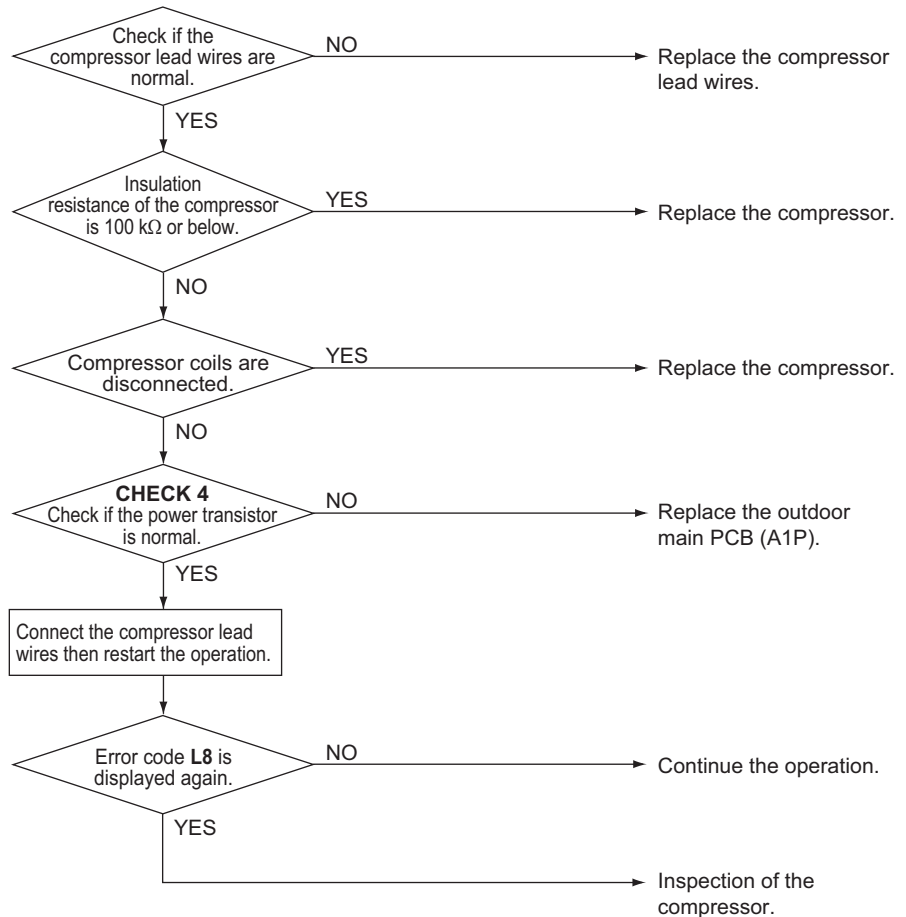
5.42 Compressor Overcurrent

| | |
|----------------------------------|--|
| Error Code | L8 |
| Applicable Models | All outdoor units |
| Method of Error Detection | Error is detected by current flowing in the power transistor. |
| Error Decision Conditions | Overload in the compressor is detected. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Compressor overload ■ Broken wire inside compressor ■ Defective PCB ■ Disconnection of compressor |

Troubleshooting



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



Reference **CHECK 4** Refer to page 373.

5.43 Compressor Startup Abnormality

Error Code

L9

Applicable Models

All outdoor units

Method of Error Detection

Error is detected by the power transistor current

Error Decision Conditions

Compressor overload during activation

Supposed Causes

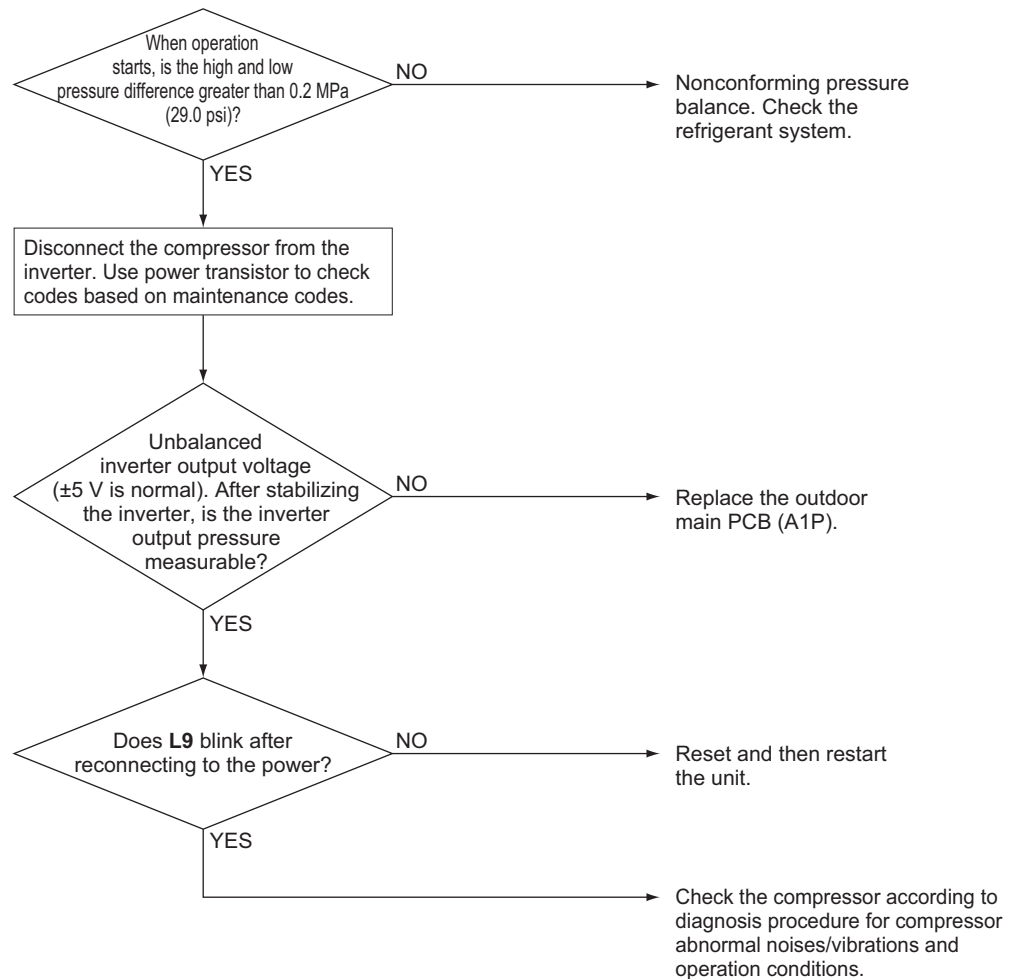
- Defective compressor
- Large pressure difference before starting the compressor
- Defective PCB

Troubleshooting



Caution

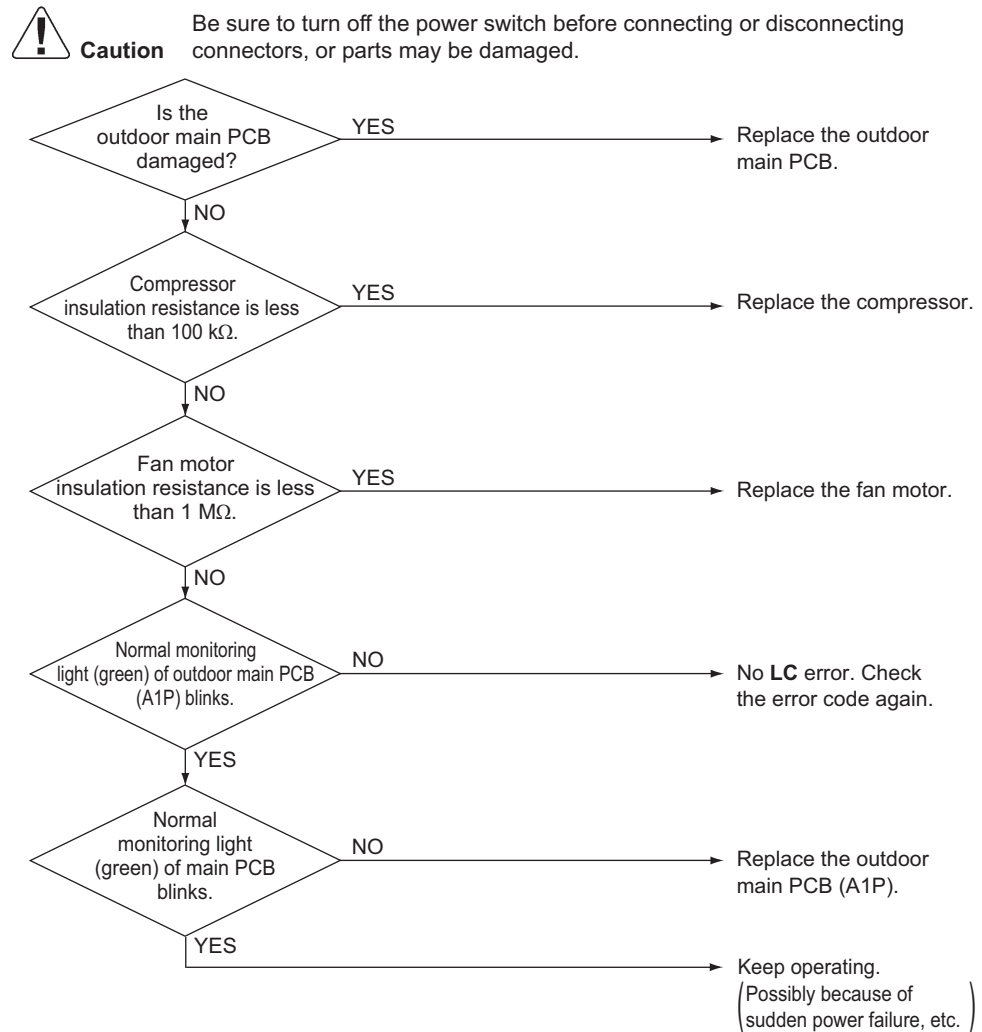
Be sure to turn off the power switch before connecting or disconnecting connectors, or parts may be damaged.



5.44 Transmission Error between Microcomputers on Outdoor Unit Main PCB

| | |
|----------------------------------|--|
| Error Code | LC |
| Applicable Models | All outdoor units |
| Method of Error Detection | Transmission conditions between microcomputers on the outdoor main PCB are tested via microcomputer. |
| Error Decision Conditions | No normal transmission after a certain period of time |
| Supposed Causes | <ul style="list-style-type: none"> ■ Connection error between microcomputers on the outdoor main PCB ■ Defective outdoor main PCB (Transmission part) ■ Defective noise filter ■ External factors (Noise, etc.) ■ Defective compressor ■ Defective fan motor |

Troubleshooting



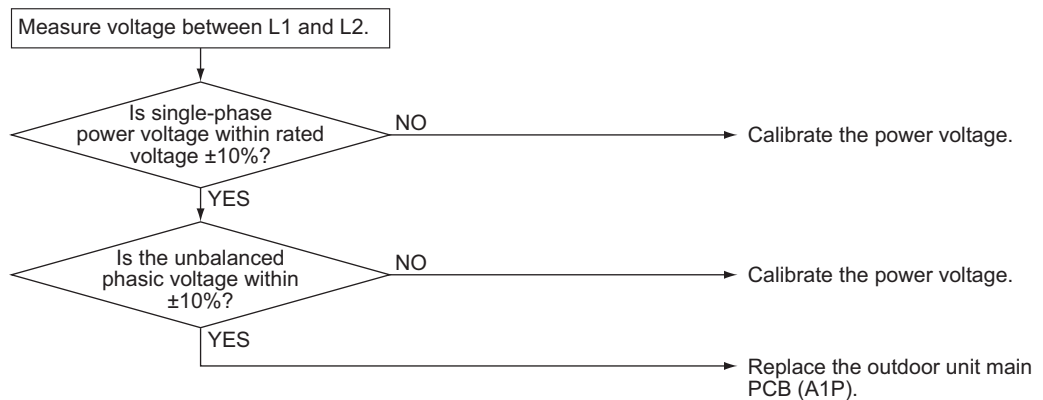
5.45 Inverter Circuit Capacitor High Voltage

| | |
|----------------------------------|---|
| Error Code | P1 |
| Applicable Models | All outdoor units |
| Method of Error Detection | The voltage waveform of the main circuit capacitor of the inverter is used to check for errors. |
| Error Decision Conditions | The above-mentioned voltage waveform looks like the waveform of the power supply with a missing phase |
| Supposed Causes | <ul style="list-style-type: none"> ■ Defective main circuit capacitor ■ Incorrect main circuit wiring ■ Defective outdoor unit PCB ■ Unbalanced voltage between phases ■ Missing phase |

Troubleshooting


Caution

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



5.46 Radiation Fin Thermistor Abnormality

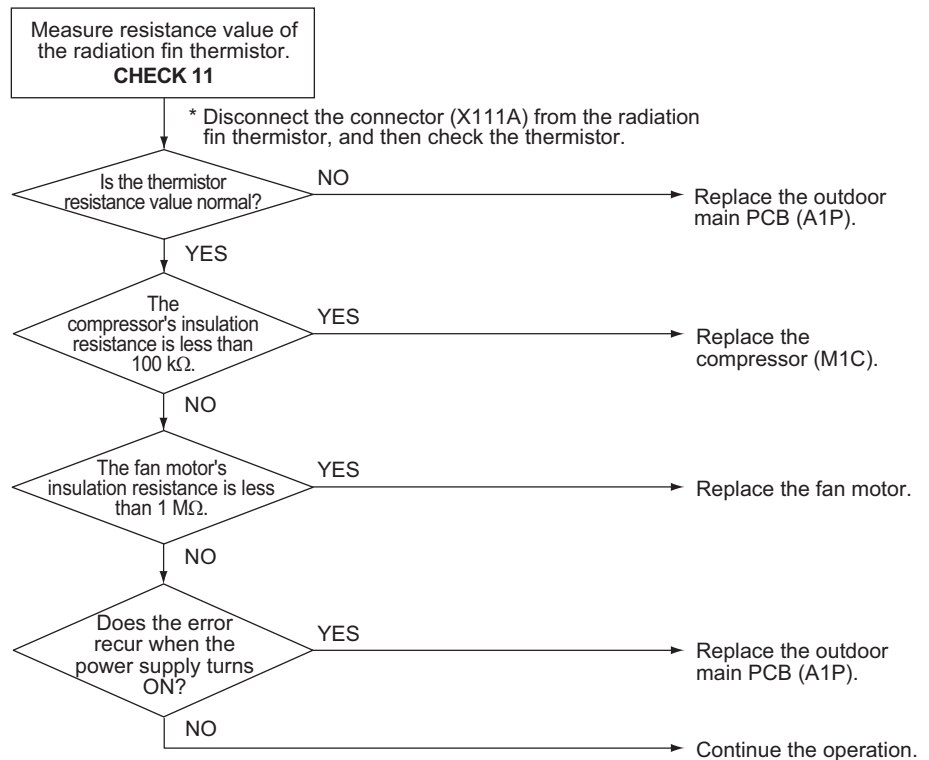
| | |
|----------------------------------|---|
| Error Code | P4 |
| Applicable Models | All outdoor units |
| Method of Error Detection | Resistance of the following thermistor is detected when the compressor is not operating. (1) Radiation fin thermistor (2) PCB circuit thermistor |
| Error Decision Conditions | When the resistance value of thermistor becomes a value equivalent to open circuited or short circuited status * Error is not decided while the unit operation is continued. P4 will be displayed by pressing the inspection button. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Defective radiation fin temperature thermistor ■ Defective PCB ■ Defective compressor ■ Defective fan motor |

Troubleshooting



Caution

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



Reference

CHECK 11 Refer to page 379.

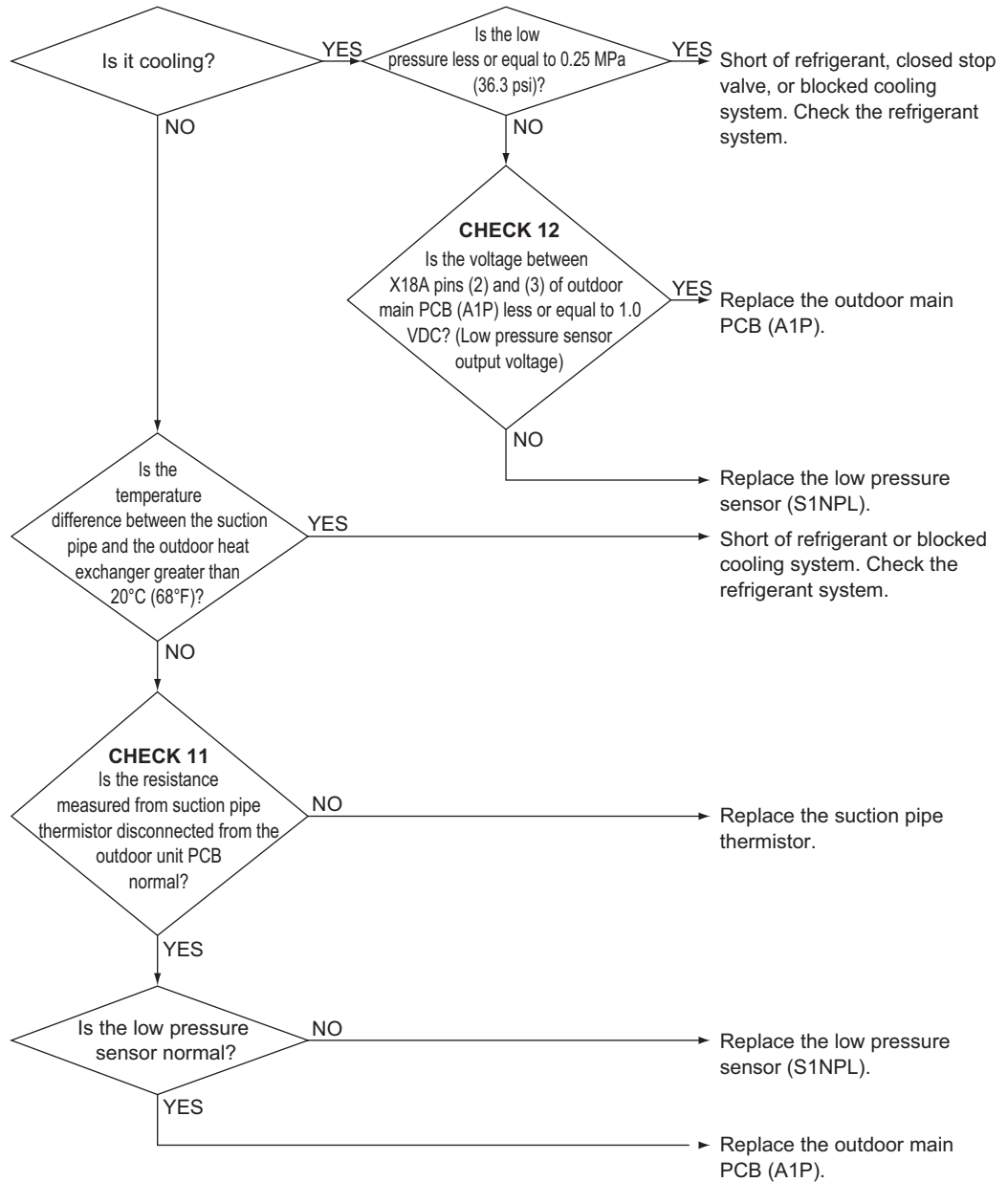
5.47 Refrigerant Shortage

| | |
|----------------------------------|--|
| Error Code | U0 |
| Applicable Models | All outdoor units |
| Method of Error Detection | Refrigerant shortage check is conducted based on the discharge pipe thermistor temperature and the low-pressure saturated temperature. |
| Error Decision Conditions | Microcomputer is used to determine and check for system refrigerant shortage. *The unit can keep operating but there is an unconfirmed error. |
| Supposed Causes | <ul style="list-style-type: none">■ Refrigerant shortage or refrigerant clogging (piping error)■ Defective suction pipe thermistor■ Defective pressure sensor■ Defective outdoor main PCB (A1P) |

Troubleshooting



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



Reference CHECK 11 Refer to page 379.



Reference CHECK 12 Refer to page 382.

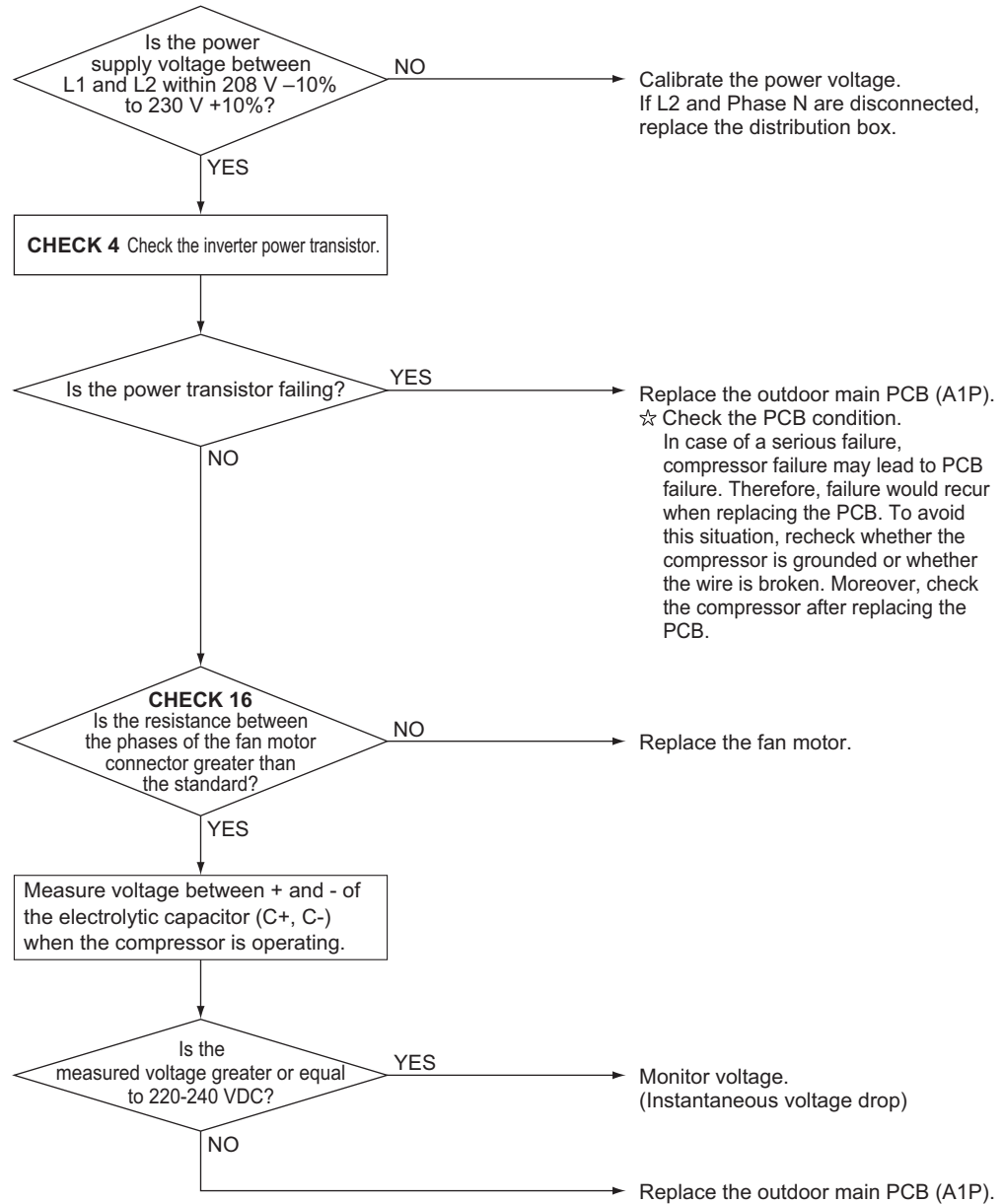
5.48 Power Supply Insufficient or Instantaneous Abnormality

| | |
|----------------------------------|--|
| Error Code | U2 |
| Applicable Models | All outdoor units |
| Method of Error Detection | The main circuit capacitor voltage of the inverter and the power supply voltage is checked. |
| Error Decision Conditions | The main circuit capacitor of the tested inverter has abnormal voltage or the power supply voltage is abnormal. |
| Supposed Causes | <ul style="list-style-type: none">■ Insufficient power supply■ Instantaneous power failure■ Defective outdoor fan motor■ Defective outdoor unit PCB |

Troubleshooting



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



5.49 Check Operation Not Executed

Error Code

U3

Applicable Models

All outdoor units

Method of Error Detection

Determined based on whether check operation is executed or not

Error Decision Conditions

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

Supposed Causes

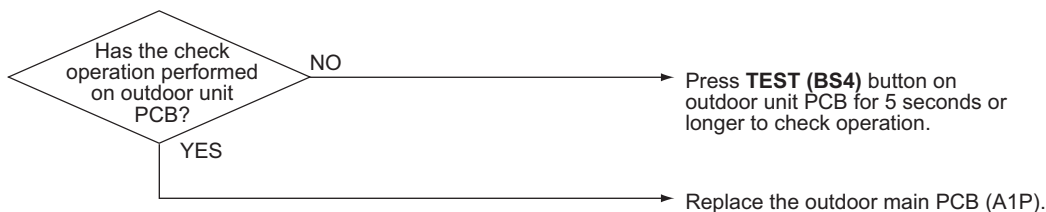
Check operation not executed

Troubleshooting



Caution

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



5.50 Transmission Error between Indoor Units and Outdoor Units

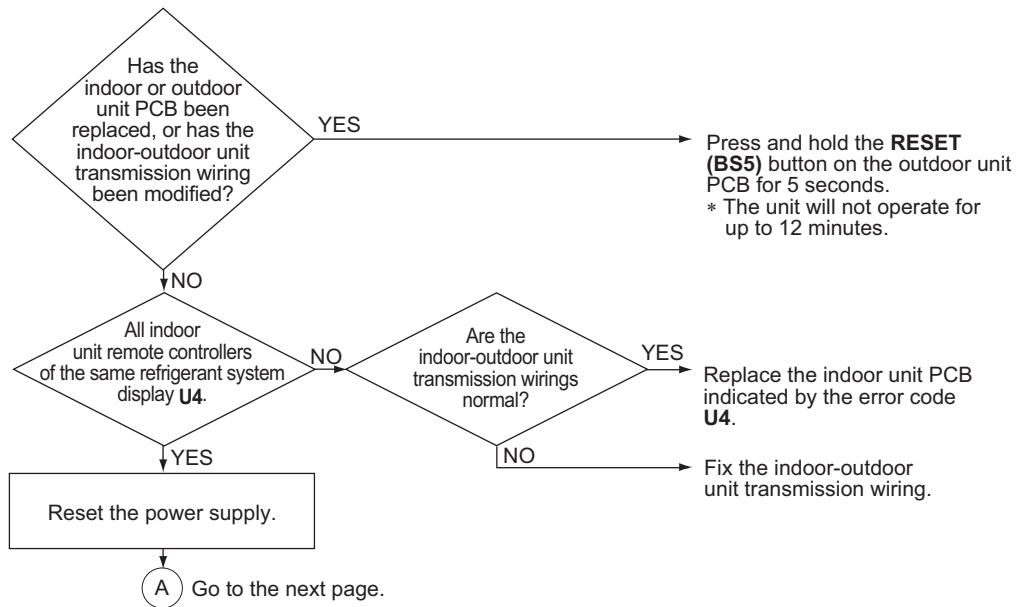
| | |
|----------------------------------|---|
| Error Code | U4 |
| Applicable Models | All indoor and outdoor units |
| Method of Error Detection | Microcomputer checks if transmission between indoor and outdoor units is normal. |
| Error Decision Conditions | When transmission is not carried out normally for a certain amount of time |
| Supposed Causes | <ul style="list-style-type: none"> ■ Indoor to outdoor transmission wiring F1, F2 disconnection, short circuit or wrong wiring ■ Outdoor unit power supply is OFF ■ System address does not match ■ Defective indoor unit PCB ■ Defective outdoor main PCB |

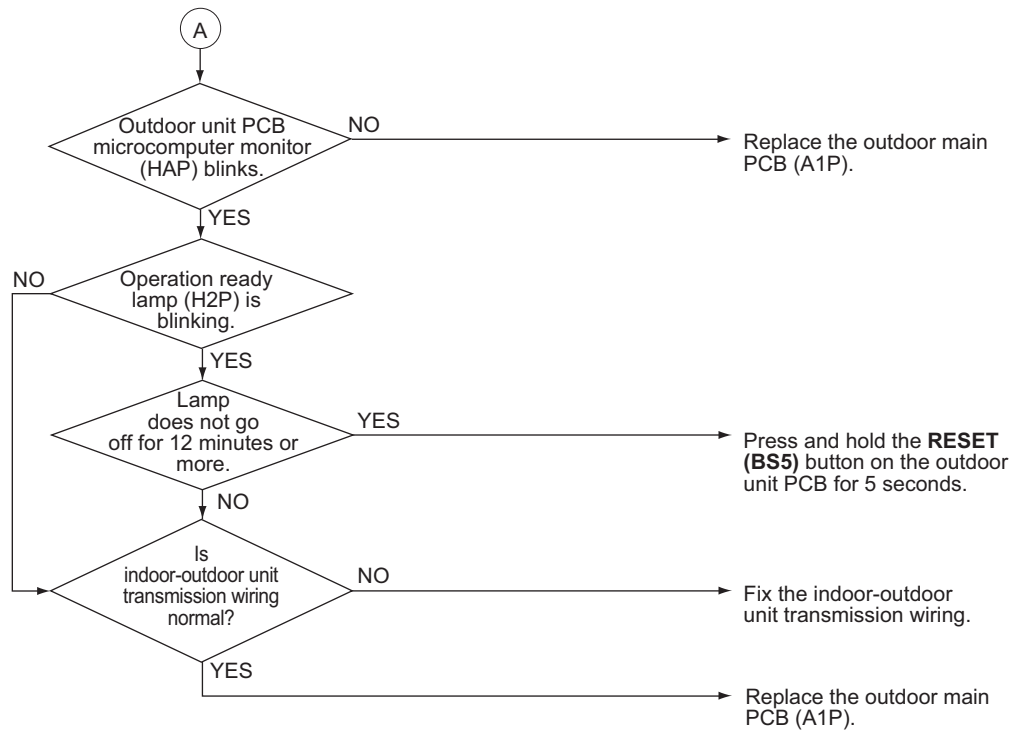
Troubleshooting



Caution

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

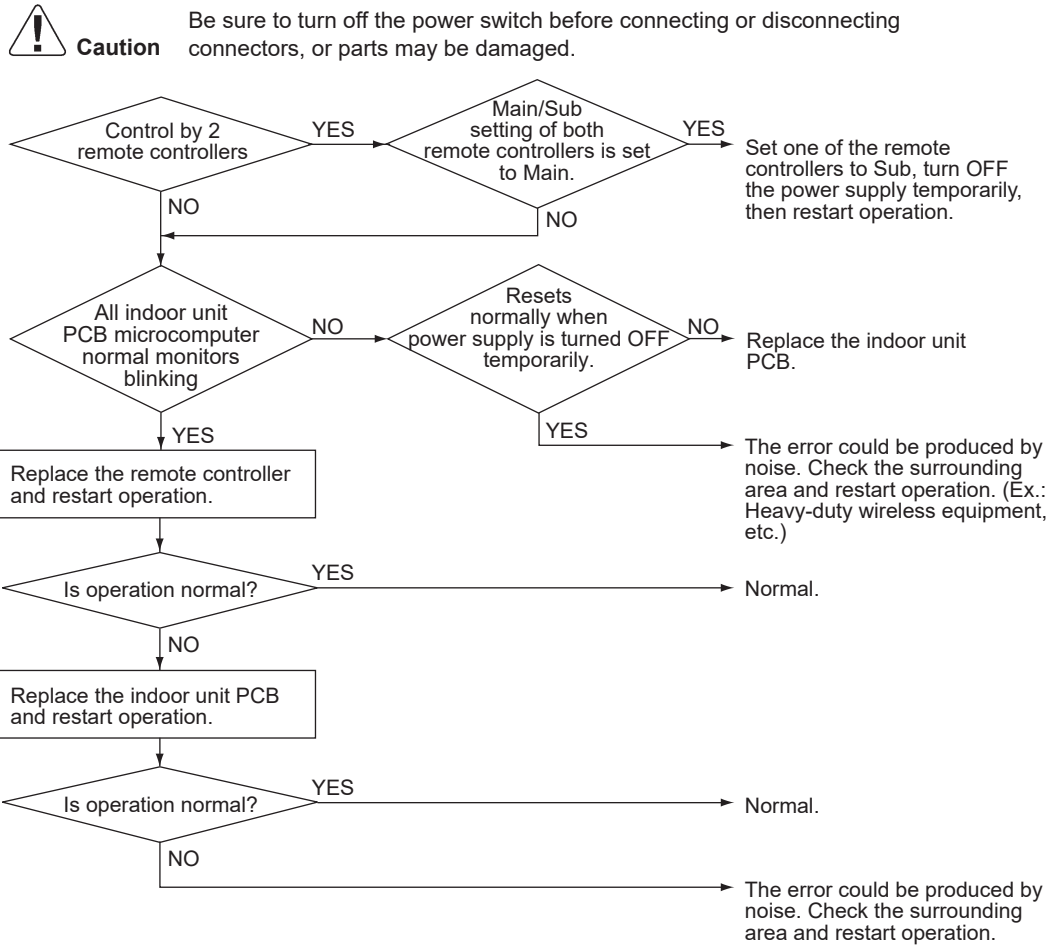




5.51 Transmission Error between Remote Controller and Indoor Unit

| | |
|----------------------------------|---|
| Error Code | U5 |
| Applicable Models | All indoor units |
| Method of Error Detection | Microcomputer checks if transmission between indoor unit and remote controller is normal. |
| Error Decision Conditions | Normal transmission does not continue for specified period. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Transmission error between indoor unit and remote controller ■ Connection of 2 main remote controllers (when using 2 remote controllers) ■ Defective indoor unit PCB ■ Defective remote controller PCB ■ Defective transmission caused by noise |

Troubleshooting



Reference

Refer to page 152 for Main/Sub setting.

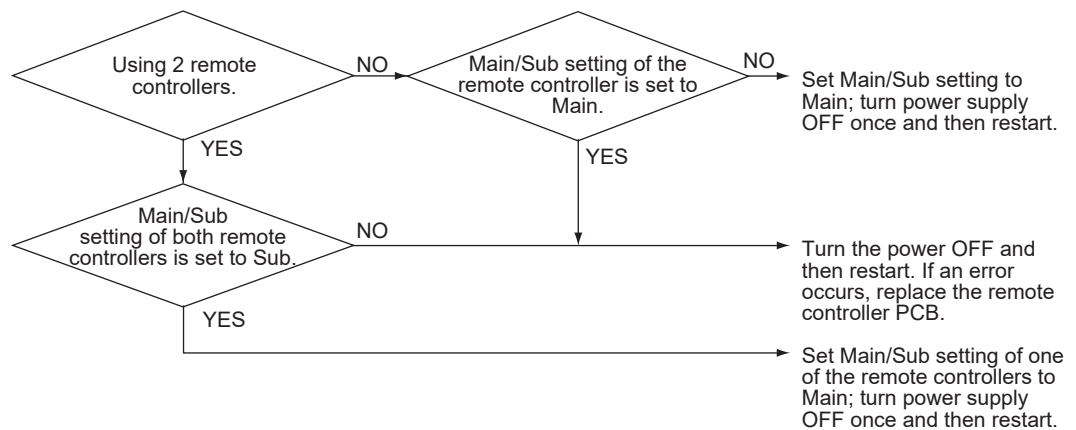
5.52 Transmission Error between Main and Sub Remote Controllers

| | |
|----------------------------------|---|
| Error Code | U8 |
| Applicable Models | All indoor units |
| Method of Error Detection | In case of controlling with 2 remote controllers, check the system using microcomputer if signal transmission between indoor unit and remote controller (main and sub) is normal. |
| Error Decision Conditions | Normal transmission does not continue for specified period. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Transmission error between main and sub remote controller ■ Connection between sub remote controllers ■ Defective remote controller PCB |

Troubleshooting


Caution

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


Reference

Refer to page 152 for Main/Sub setting.

5.53 Transmission Error between Indoor and Outdoor Units in the Same System

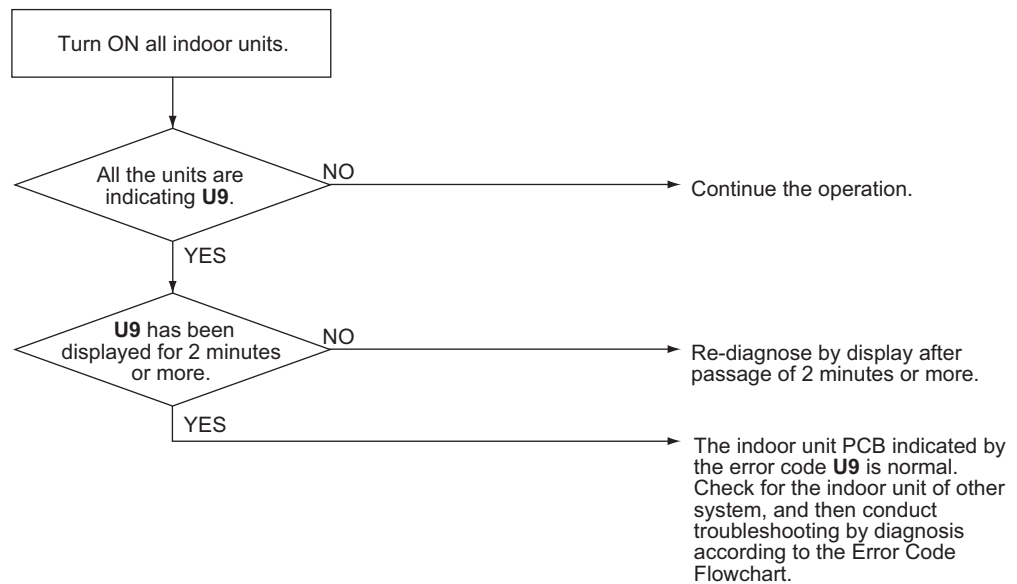
| | |
|----------------------------------|---|
| Error Code | U9 |
| Applicable Models | All indoor units All outdoor units |
| Method of Error Detection | Error signal for the other indoor units is detected within the system by outdoor unit PCB. |
| Error Decision Conditions | The error decision is made on any other indoor unit within the system concerned. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Transmission error within or outside of other system ■ Defective electronic expansion valve in indoor unit of other system ■ Defective PCB of indoor unit in other system ■ Improper connection of transmission wiring between indoor and outdoor unit |

Troubleshooting



Caution

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



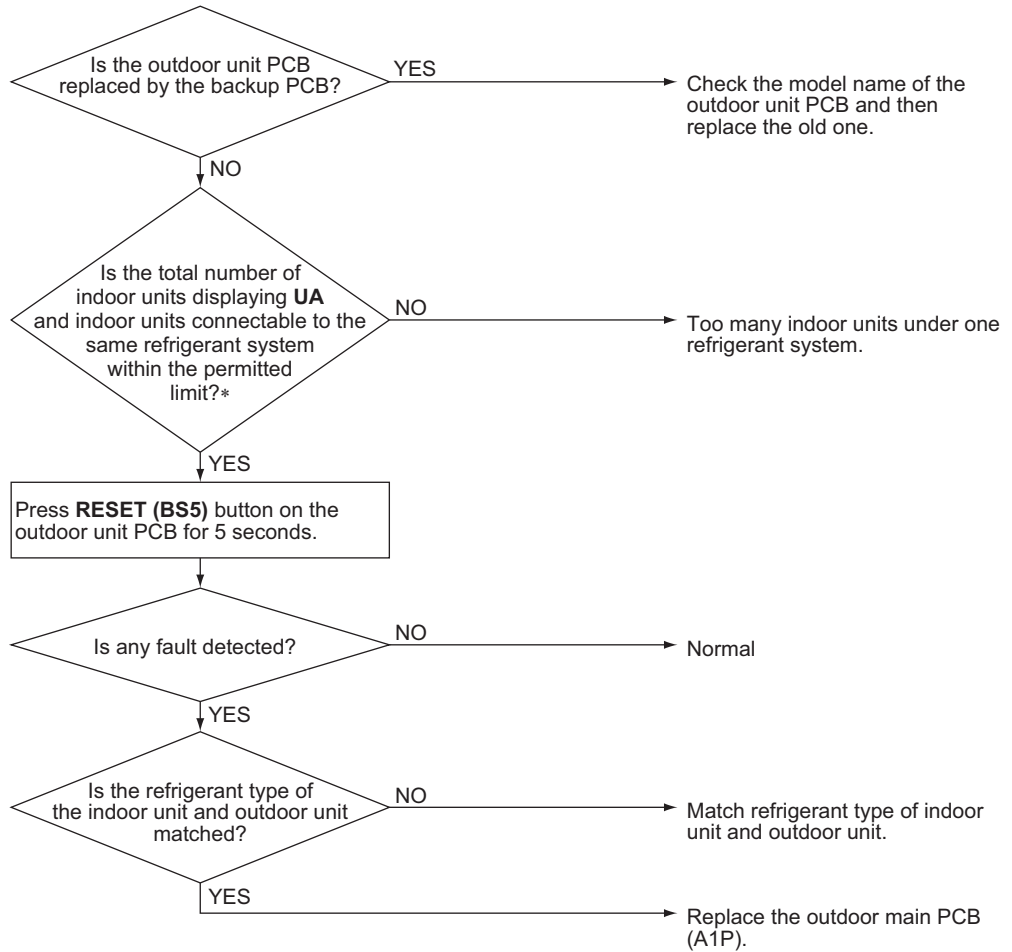
5.54 Improper Combination of Indoor and Outdoor Units, Indoor Units and Remote Controller

| | |
|----------------------------------|---|
| Error Code | UA |
| Applicable Models | All indoor units All outdoor units |
| Method of Error Detection | A difference occurs in data by the type of refrigerant between indoor and outdoor units. The number of indoor units is out of the allowable range. |
| Error Decision Conditions | The error decision is made as soon as either of the abnormalities aforementioned is detected. |
| Supposed Causes | <ul style="list-style-type: none">■ Excess of connected indoor units■ Defective outdoor main PCB■ Mismatching of the refrigerant type of indoor and outdoor unit.■ Setting of outdoor main PCB was not conducted after replacing to spare PCB. |

Troubleshooting



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



* The number of indoor units that may be connected to an individual outdoor unit system is determined by the model of the outdoor unit.

5.55 Incorrect Electric Heater Capacity Setting

| | |
|--|--|
| Error Code | UA-17 |
| Applicable Models | FTQ-TA, FTQ-TB |
| Outline | <p>After attaching optional electric heater, if the electric heater capacity setting (11 (21)-5) is made mistakenly for heaters not featured in the lineup, heating via unintended levels of airflow will be prevented.</p> <p>However, the electric heater will be operable for convenience.</p> |
| Error Decision Conditions | Checks when the capacity setting (11 (21)-5) of the electric heater has been set to a non-applicable value. |
| Operation After Error Codes Decided | <ul style="list-style-type: none"> ■ The error code UA-17 is displayed on the remote controller. ■ Indoor units can operate continuously. ■ Incorrect setting is kept. ■ Even if the ON condition for electric heater 2 is established, only electric heater 1 will be set to ON. (Electric heater 1 set to ON, electric heater 2 set to OFF) (In order to deliver in terms of user-friendliness and safety, the electric heater can operate at the lowest possible power levels.) ■ The airflow of the fan during operation of the electric heater will be set to the largest value within the CFM dictated by the capacity of each of the electric heaters (electric heater 1, electric heater 2 both set to ON). ■ All other operations are the same as during normal operation. |

5.56 Address Duplication of Centralized Controller

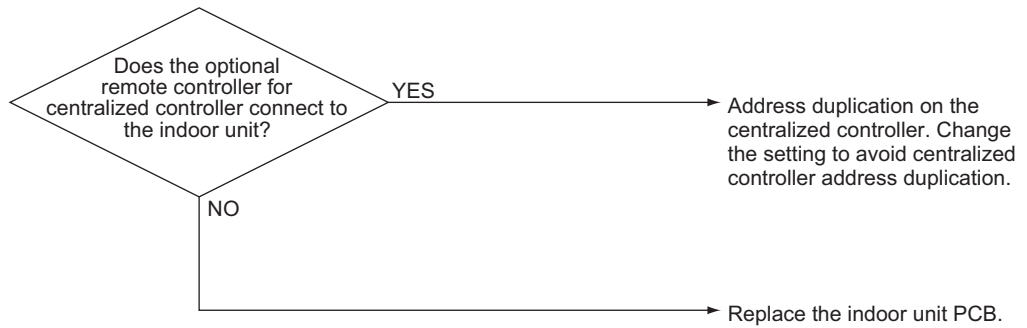
| | |
|----------------------------------|--|
| Error Code | UC |
| Applicable Models | All indoor units |
| Method of Error Detection | The principal indoor unit detects the same address as that of its own on any other indoor unit. |
| Error Decision Conditions | The error decision is made as soon as the abnormality aforementioned is detected. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Address duplication of centralized controller ■ Defective indoor unit PCB |

Troubleshooting



Caution

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



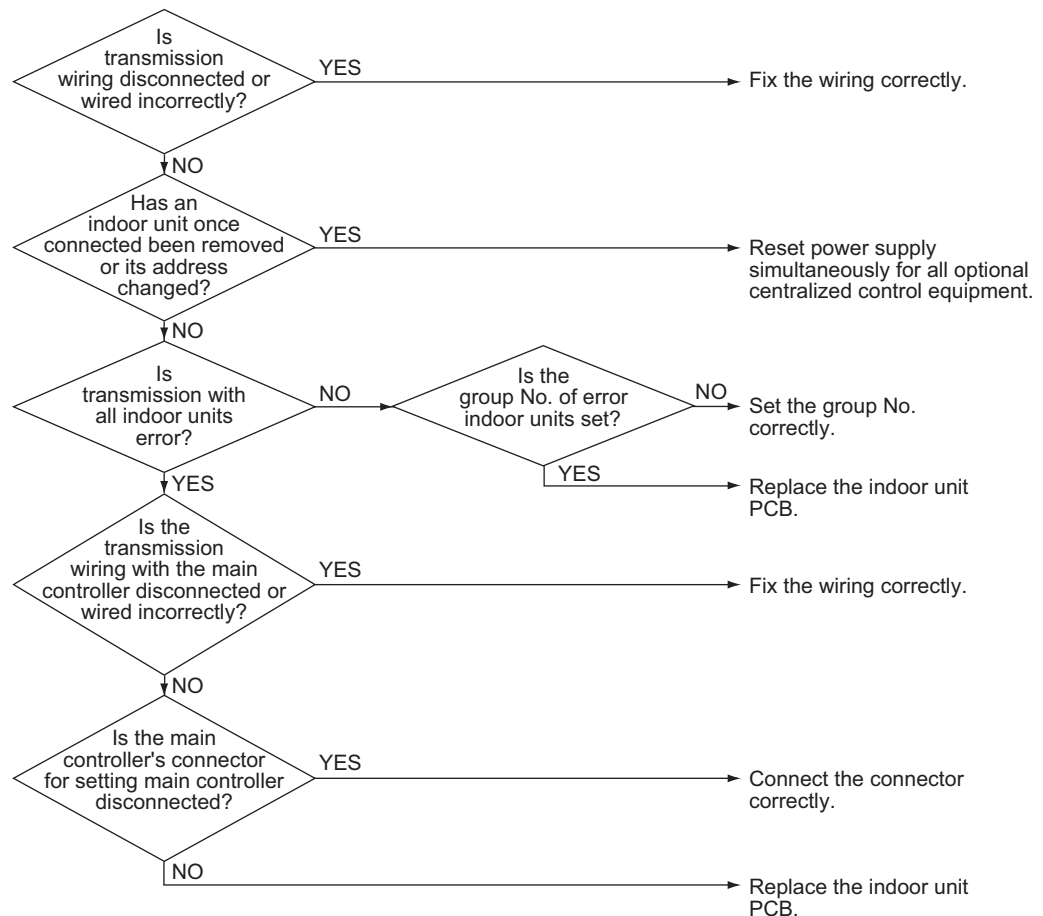
5.57 Transmission Error between Centralized Controller and Indoor Unit

| | |
|----------------------------------|--|
| Error Code | UE |
| Applicable Models | All indoor units Centralized controller |
| Method of Error Detection | Microcomputer checks if transmission between indoor unit and centralized controller is normal. |
| Error Decision Conditions | When transmission is not carried out normally for a certain amount of time |
| Supposed Causes | <ul style="list-style-type: none"> ■ Disconnection or error of transmission wiring ■ Defective setting of group No. or address ■ Transmission error between optional controllers for centralized control and indoor unit ■ Defective PCB for centralized controller ■ Defective indoor unit PCB |

Troubleshooting


Caution

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



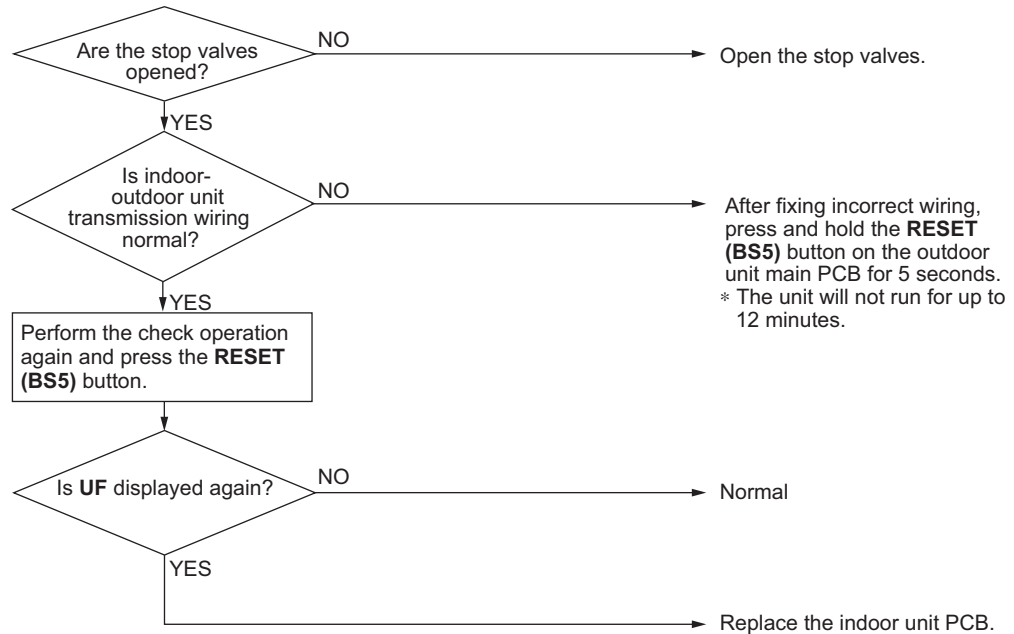
5.58 System Not Set

| | |
|----------------------------------|--|
| Error Code | UF |
| Applicable Models | All indoor units All outdoor units |
| Method of Error Detection | On check operation, the number of indoor units in terms of transmission is not corresponding to that of indoor units that have made changes in temperature. |
| Error Decision Conditions | The error is determined as soon as the abnormality aforementioned is detected through checking the system for any erroneous connection of units on the check operation. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Improper connection of transmission wiring between indoor-outdoor units ■ Failure to execute check operation ■ Defective indoor unit PCB ■ Stop valve is not opened |

Troubleshooting



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



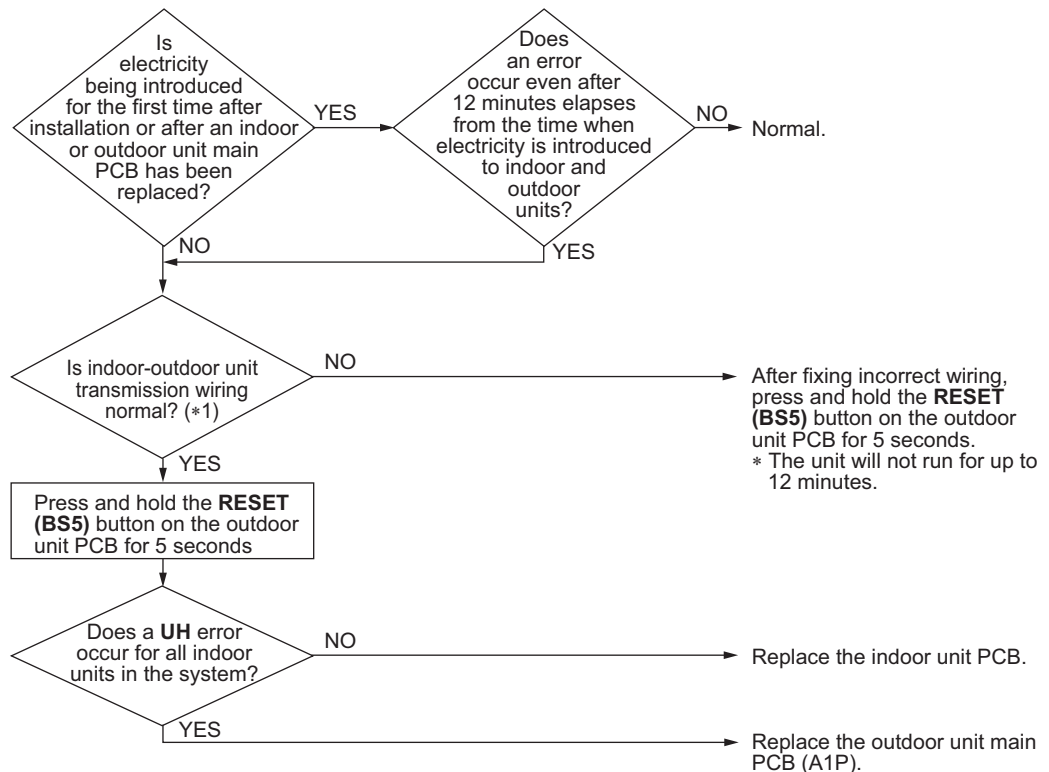
5.59 System Abnormality, Refrigerant System Address Undefined

| | |
|----------------------------------|--|
| Error Code | UH |
| Applicable Models | All indoor units All outdoor units |
| Method of Error Detection | System detects an indoor unit whose address is not defined by automatic address function. * Automatic address refers to the automatic designated address of indoor unit and outdoor unit when connected to the power after installation or wiring replacement (with the RESET (BS5) button pressed for more than 5 seconds). |
| Error Decision Conditions | The error decision is made as soon as the abnormality aforementioned is detected. |
| Supposed Causes | <ul style="list-style-type: none"> ■ Improper connection of transmission wiring between indoor-outdoor units ■ Defective indoor unit PCB ■ Defective outdoor unit main PCB (A1P) |

Troubleshooting


Caution

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


Note(s)

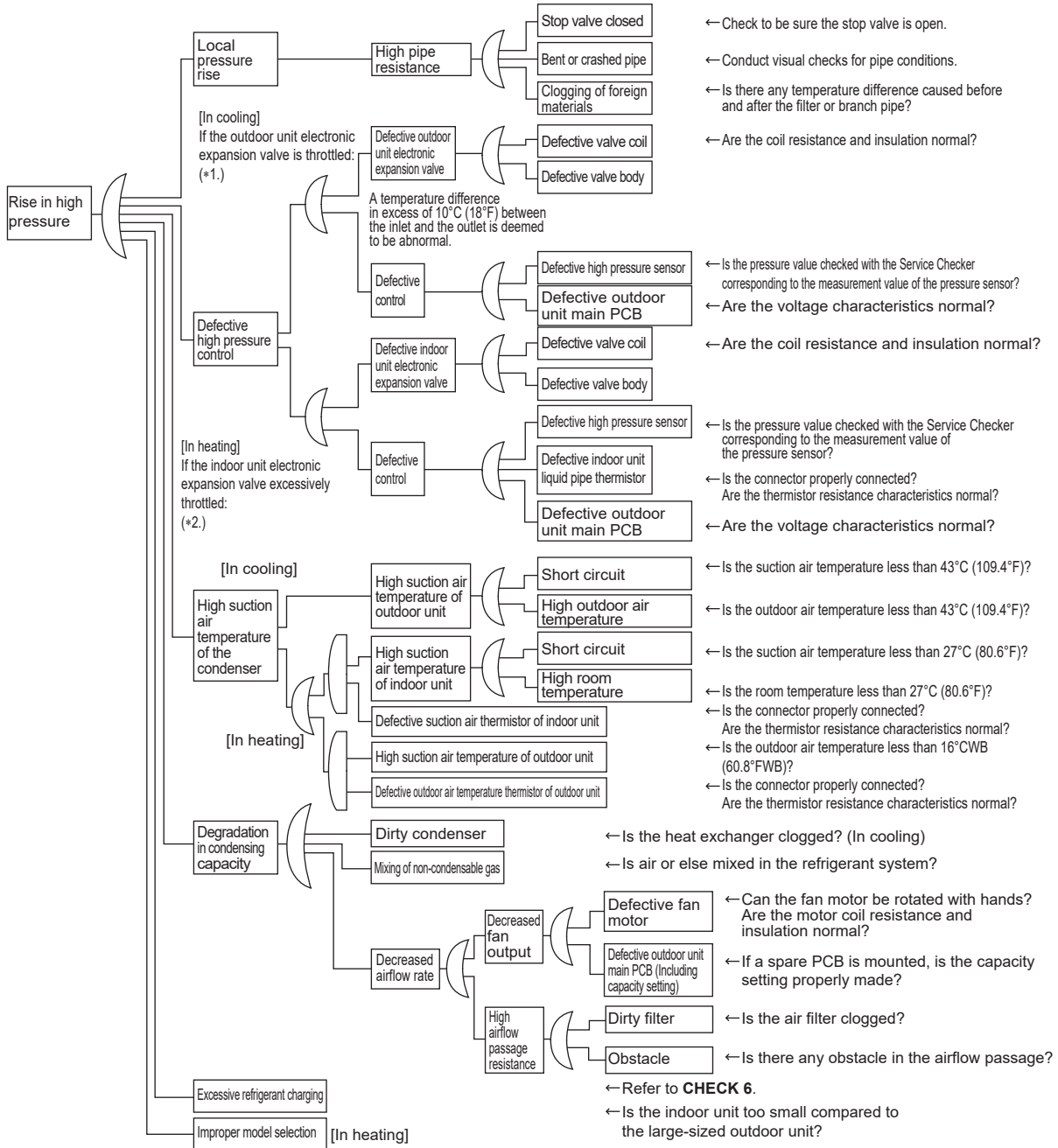
*1. Refer to installation manual for the correct indoor unit and outdoor unit connection wiring.

6. Check

6.1 High Pressure Check

CHECK 1

Referring to the Fault Tree Analysis (FTA) shown below, probe the defective points.



i Note(s)

- *1. In cooling, it is normal if the outdoor unit electronic expansion valve (main) is fully open.
- *2. In heating, the indoor unit electronic expansion valve is used for subcooling degree control.

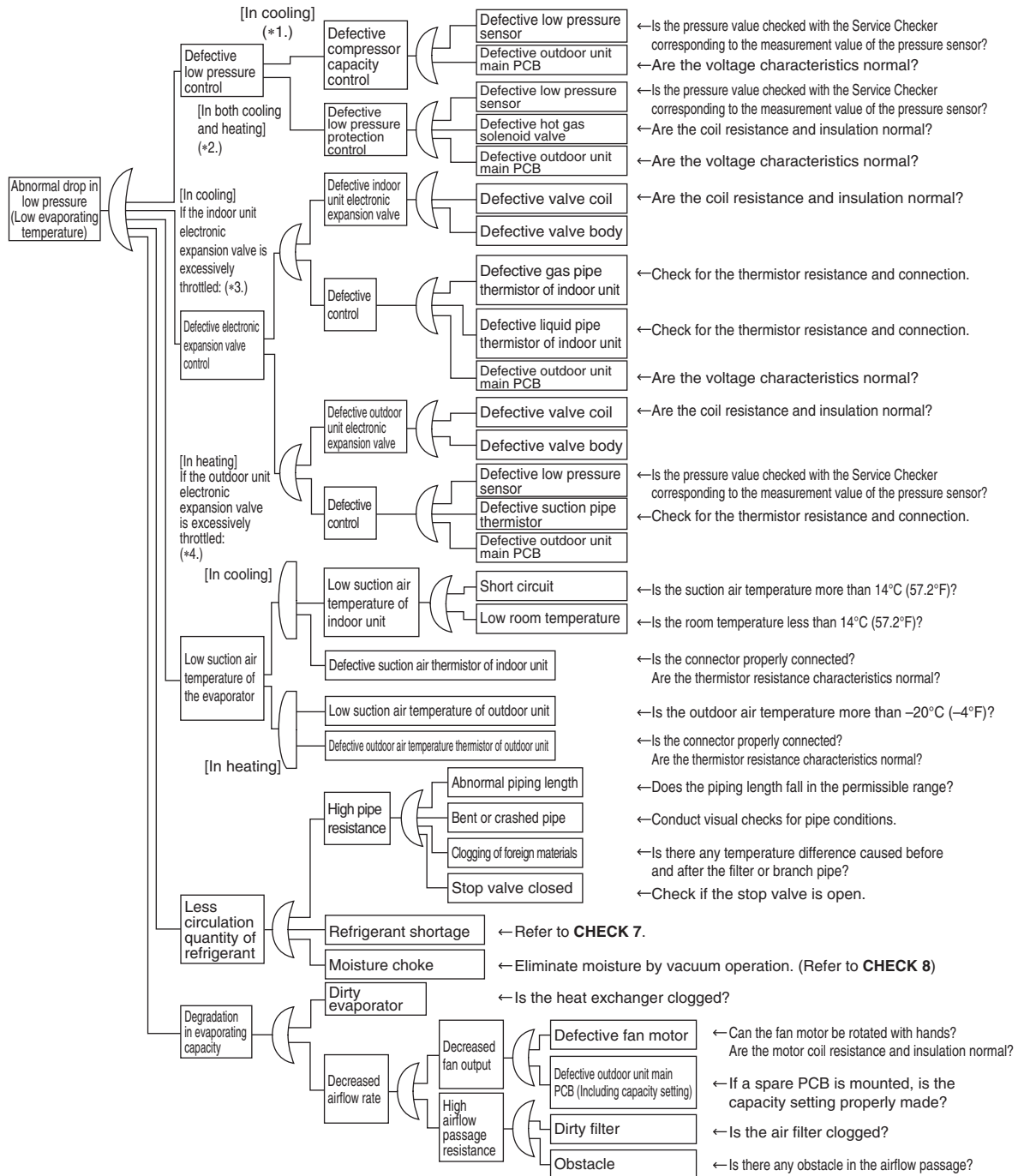
Reference

CHECK 6 Refer to page 374.

6.2 Low Pressure Check

CHECK 2

Referring to the Fault Tree Analysis (FTA) shown below, probe the defective points



i Note(s)

- *1. For details of compressor capacity control while in cooling, refer to Compressor PI control.
- *2. The low pressure protection control includes low pressure protection control and hot gas bypass control.
- *3. In cooling, the indoor unit electronic expansion valve is used for superheating degree control.
- *4. In heating, the outdoor unit electronic expansion valve (main) is used for superheating degree control of outdoor heat exchanger.



Reference **CHECK 7** Refer to page 375.

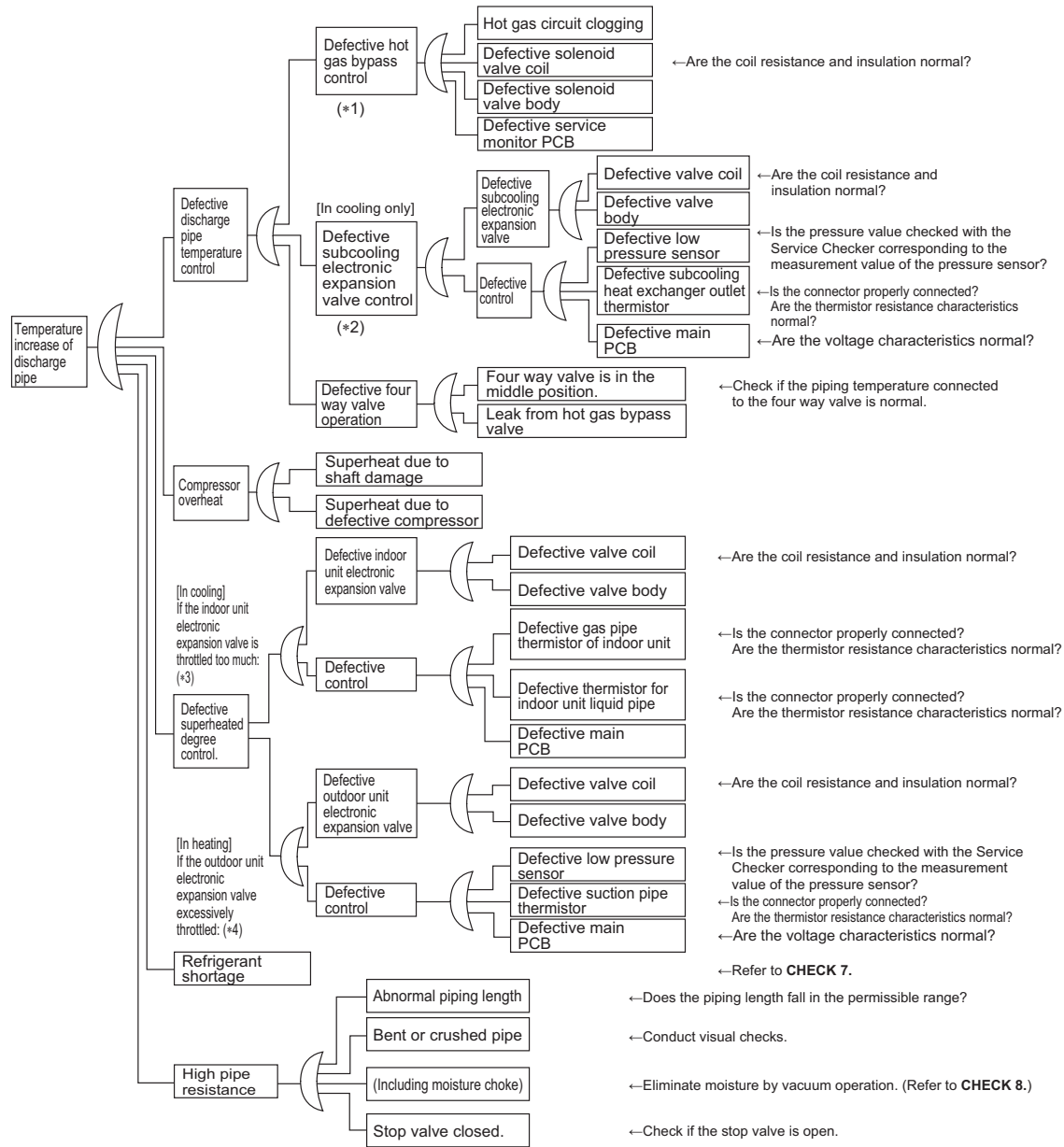


Reference **CHECK 8** Refer to page 376.

6.3 Superheat Operation Check

CHECK 3

Referring to the Fault Tree Analysis (FTA) shown below, probe the defective points.



i Note(s)

- *1: Refer to Low pressure protection control on page 184.
- *2: Refer to Subcooling electronic expansion valve control on page 174.
- *3: Superheating temperature control in cooling is conducted by indoor unit electronic expansion valve.
- *4: Superheating temperature control in heating is conducted by outdoor unit electronic expansion valve.
- *5: Judgment criteria of superheat operation: (1) Suction gas superheated degree: 10°C (18°F) and over. (2) Discharge gas superheated degree: 45°C (81°F) and over, except immediately after compressor starts up or is running under dropping control. (Use the above values as a guide. Depending on the other conditions, the unit may be normal despite the values within the above range.)



Reference **CHECK 7** Refer to page 375.



Reference **CHECK 8** Refer to page 376.

6.4 Power Transistor Check

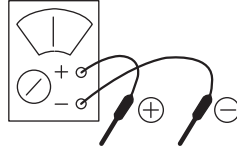
CHECK 4

Perform the following procedures prior to check.

- (1) Power OFF.
- (2) Remove all the wiring connected to the PCB where power transistors are mounted on.

[Preparation]

· Multimeter



* Preparing a multimeter in the analog system is recommended.

A multimeter in the digital system with diode check function will be usable.

[Point of Measurement and Judgment Criteria]

· Measure the resistance value using a tester at each point of measurement below, 10 minutes later after power OFF.

To use analog multimeter:

Measurement in the resistance value mode in the range of multiplying 1 k Ω .

| No. | Point of Measurement | | Judgment Criteria | Remarks |
|-----|----------------------|----|---|--|
| | + | - | | |
| 1 | P2 | U | 2 ~ 15 k Ω | — |
| 2 | P2 | V | | |
| 3 | P2 | W | | |
| 4 | U | P2 | 15 k Ω and above (including ∞) | Due to condenser charge and so on, resistance measurement may require some time. |
| 5 | V | P2 | | |
| 6 | W | P2 | | |
| 7 | N3 | U | | |
| 8 | N3 | V | | |
| 9 | N3 | W | 2 ~ 15 k Ω | — |
| 10 | U | N3 | | |
| 11 | V | N3 | | |
| 12 | W | N3 | | |

To use digital multimeter:

Measurement is executed in the diode check mode.(→|←)

| No. | Point of Measurement | | Judgment Criteria | Remarks |
|-----|----------------------|----|-------------------|--|
| | + | - | | |
| 1 | P2 | U | 1.2 V and over | Due to condenser charge and so on, resistance measurement may require some time. |
| 2 | P2 | V | | |
| 3 | P2 | W | | |
| 4 | U | P2 | 0.3 ~ 0.7 V | — |
| 5 | V | P2 | | |
| 6 | W | P2 | | |
| 7 | N3 | U | | |
| 8 | N3 | V | | |
| 9 | N3 | W | 1.2 V and over | Due to condenser charge and so on, resistance measurement may require some time. |
| 10 | U | N3 | | |
| 11 | V | N3 | | |
| 12 | W | N3 | | |

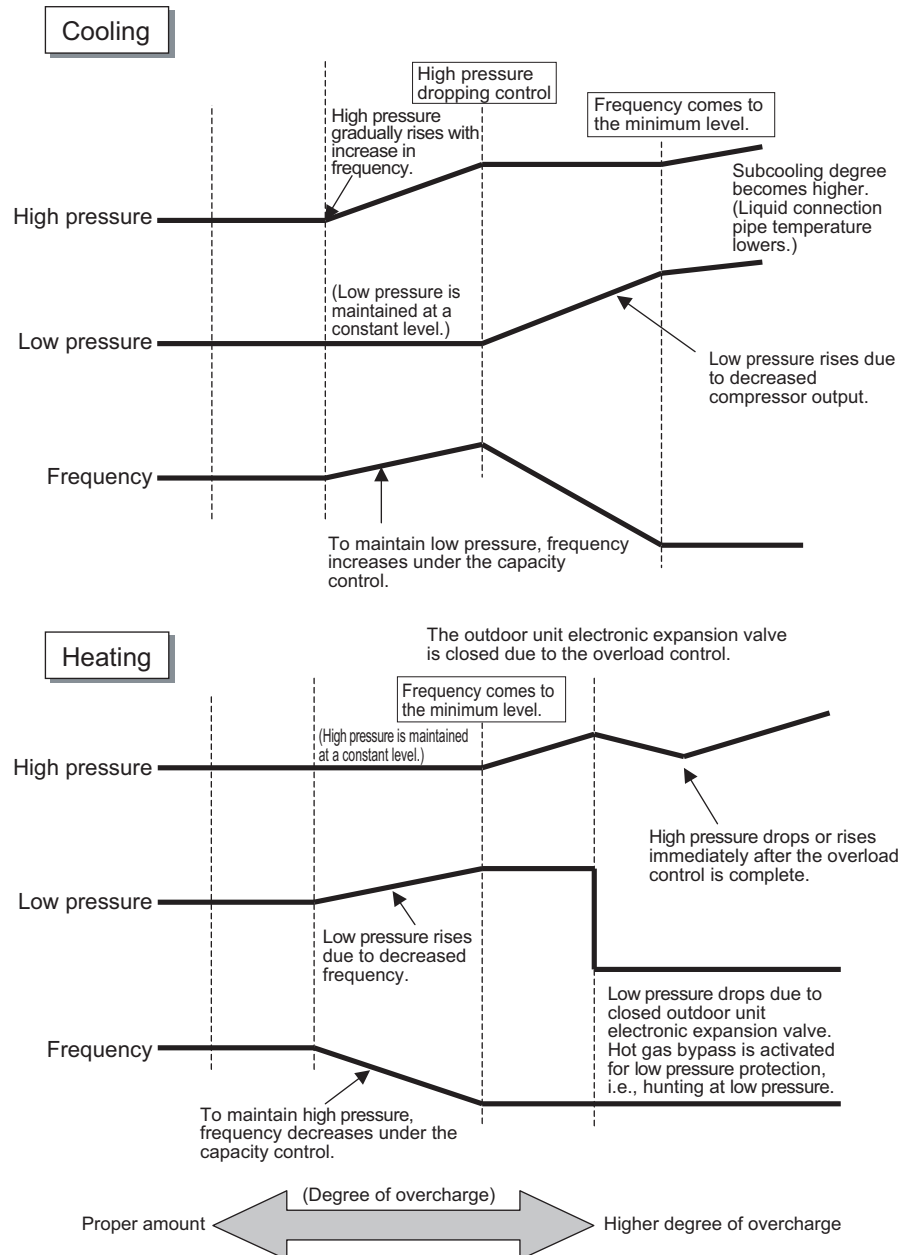
6.5 Refrigerant Overcharge Check

CHECK 6

The only way to judge as the overcharge of refrigerant is with operating conditions due to the relationship to pressure control and electronic expansion valve control.
As information for making a judgment, refer to the information below.

Diagnosis of overcharge of refrigerant

1. High pressure rises. Consequently, overload control is conducted to cause insufficient cooling capacity.
2. The superheating degree of suction gas lowers (or the wet operation is performed). Consequently, the compressor becomes lower in discharge pipe temperature despite of pressure loads.
3. The subcooling degree of condensate rises. Consequently, in heating, the temperature of discharge air through the subcooled section becomes lower



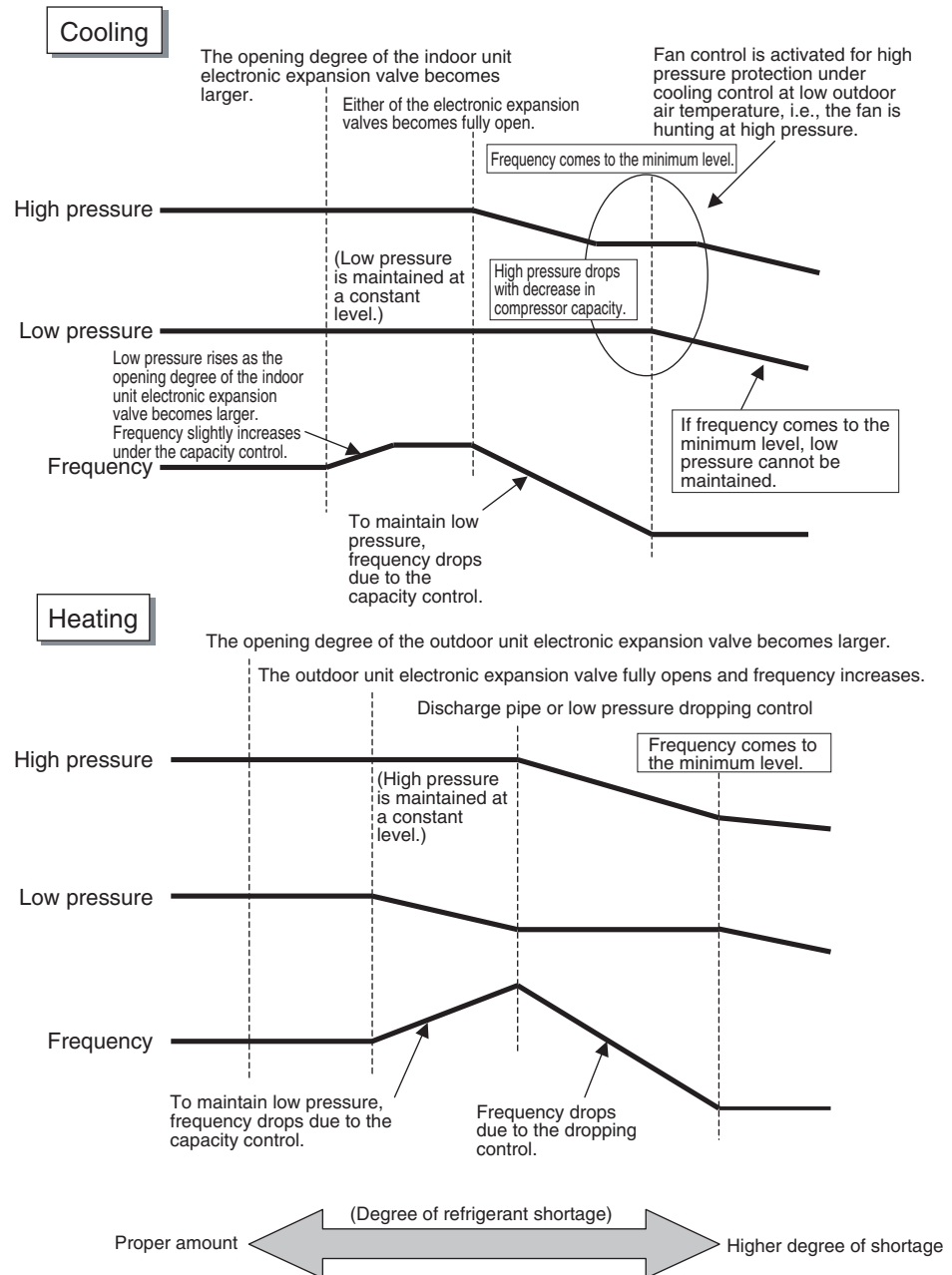
6.6 Refrigerant Shortage Check

CHECK 7

The only way to judge as the shortage of refrigerant is with operating conditions due to the relationship to pressure control and electronic expansion valve control. As information for making a judgment, refer to the information below.

Diagnosis of shortage of refrigerant

1. The superheating degree of suction gas rises. Consequently, the compressor discharge gas temperature becomes higher.
2. The superheating degree of suction gas rises. Consequently, the electronic expansion valve turns open.
3. Low pressure drops to cause the unit not to demonstrate cooling capacity (heating capacity).



6.7 Vacuuming and Dehydration Procedure

CHECK 8

Conduct vacuuming and dehydration in the piping system following the procedure for Normal vacuuming and dehydration described below.

Furthermore, if moisture may get mixed in the piping system, follow the procedure for Special vacuuming and dehydration described below.

Normal vacuuming and dehydration

1. Vacuuming and dehydration
 - Use a vacuum pump that enables vacuuming up to 500 microns.
 - Connect manifold gauges to the service ports of liquid pipe and gas pipe and run the vacuum pump for a period of 2 or more hours to conduct evacuation to 500 microns.
 - If the degree of vacuum does not reach 500 microns or less even though evacuation is conducted for a period of 2 hours, moisture will have entered the system or refrigerant leakage will have been caused. In this case, conduct evacuation for a period of another 1 hour.
 - If the degree of vacuum does not reach 500 microns or less even though evacuation is conducted for a period of 3 hours, conduct the leak tests.
2. Leaving in vacuum state
 - Leave the compressor at the degree of vacuum of 500 microns or less for a period of 1 hour or more, and then check to be sure that the vacuum gauge reading does not rise. (If the reading rises, moisture may have remained in the system or refrigerant leakage may have been caused.)
3. Additional refrigerant charge
 - Purge air from the manifold gauge connection hoses, and then charge a necessary amount of refrigerant.

Special vacuuming and dehydration

Use this procedure if moisture may get into the piping, such as construction during the rainy season (dew condensation may occur, or rainwater may enter the piping during construction work).

1. Vacuuming and dehydration
 - Follow the same procedure as that for normal vacuuming and dehydration described above.
2. Vacuum break
 - Pressurize with nitrogen gas up to 375,000 microns.
3. Vacuuming and dehydration
 - Conduct vacuuming and dehydration for a period of 1 hour or more. If the degree of vacuum does not reach 500 microns or less even though evacuation is conducted for a period of 2 hours or more, repeat vacuum break - vacuuming and dehydration.
4. Leaving in vacuum state
 - Leave the compressor at the degree of vacuum of 500 microns or less for a period of 1 hour or more, and then check to be sure that the vacuum gauge reading does not rise.
5. Additional refrigerant charge
 - Purge air from the manifold gauge connection hoses, and then charge a necessary amount of refrigerant.

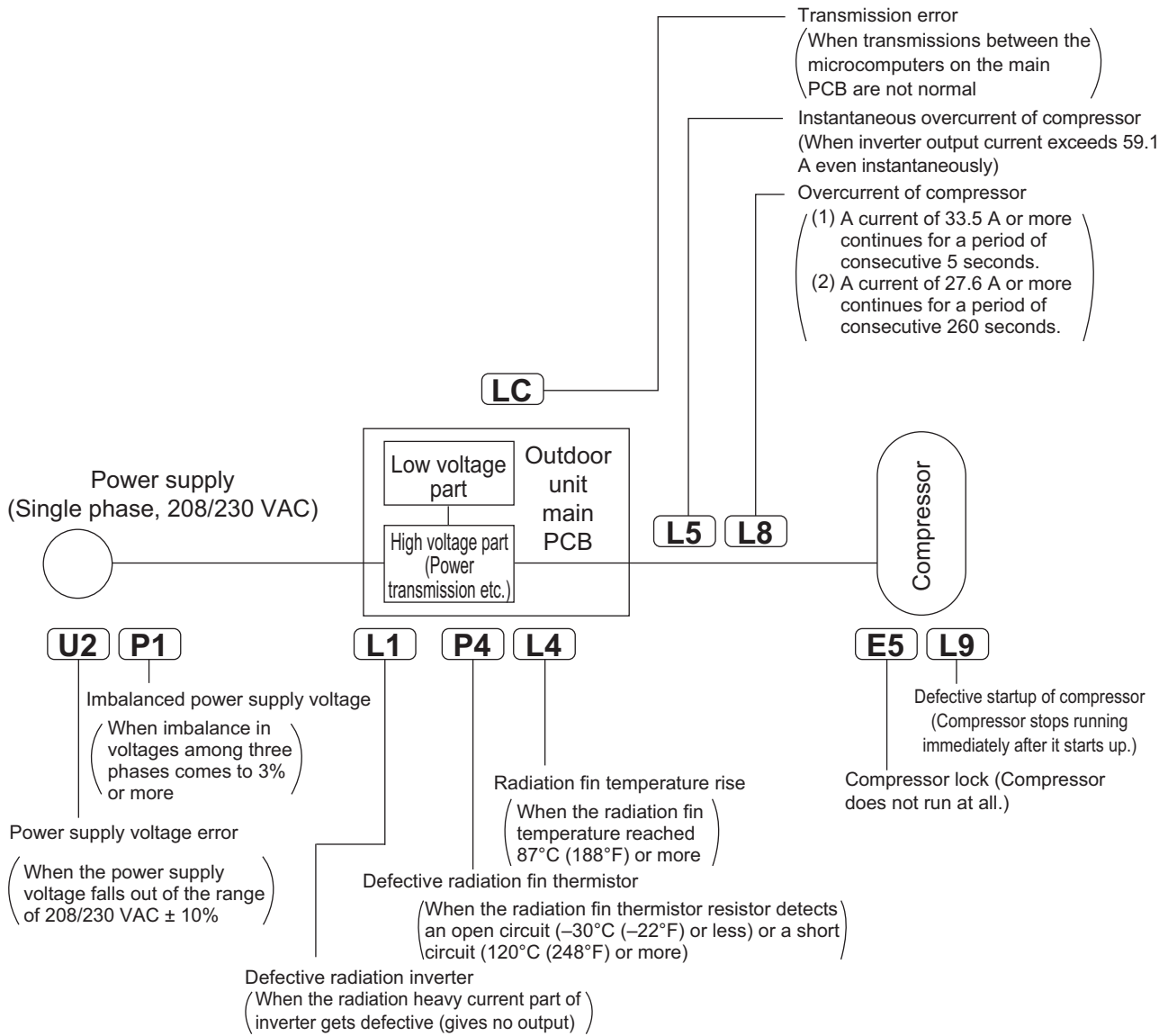
6.8 List of Inverter-Related Error Codes

CHECK 9

| | Code | Name | Condition for determining error | Major cause |
|------------------------------|----------------------------|---|--|--|
| Compressor current | L5 | Instantaneous overcurrent of compressor | <ul style="list-style-type: none"> Inverter output current exceeds 59.1 A even instantaneously. | <ul style="list-style-type: none"> Liquid sealing Defective compressor Defective inverter PCB |
| | L8 | Overcurrent of compressor (Electronic superheating protection sensor) | <ul style="list-style-type: none"> Compressor overload running A current of 33.5 A or more continues for a period of consecutive 5 seconds or that of 27.6 A or more continues for a period of consecutive 260 seconds. The inverter loses synchronization. | <ul style="list-style-type: none"> Back-flow of compressor liquid Sudden changes in loads Disconnected compressor wiring Defective PCB |
| Protection device and others | E5 | Compressor lock | <ul style="list-style-type: none"> The compressor is in the locked status (does not rotate). | <ul style="list-style-type: none"> Defective compressor |
| | L1 | Defective inverter PCB | <ul style="list-style-type: none"> No output is given. | <ul style="list-style-type: none"> Defective heavy current part of compressor |
| | L4 | Radiation fin temperature rise | <ul style="list-style-type: none"> The radiation fin temperature reaches 87°C (188°F) or more (while in operation). | <ul style="list-style-type: none"> Defective fan Running in overload for an extended period of time Defective PCB |
| | L9 | Defective startup of compressor | <ul style="list-style-type: none"> The compressor motor fails to start up. | <ul style="list-style-type: none"> Liquid sealing or defective compressor Excessive oil or refrigerant Defective PCB |
| | LC | Transmission error between microcomputers on the outdoor unit main PCB | <ul style="list-style-type: none"> No communications are carried out across the microcomputers on the outdoor unit main PCB. | <ul style="list-style-type: none"> Defective outdoor unit main PCB |
| | P1 | Imbalanced power supply | <ul style="list-style-type: none"> Power supply voltages get significantly imbalanced among three phases. | <ul style="list-style-type: none"> Power supply error (imbalanced voltages of 2% or more) Defective PCB Dead PCB |
| | P4 | Defective radiation fin thermistor | <ul style="list-style-type: none"> The radiation fin thermistor gets short circuited or open. | <ul style="list-style-type: none"> Defective radiation fin thermistor |
| U2 | Power supply voltage error | <ul style="list-style-type: none"> The inverter power supply voltage is high or low. | <ul style="list-style-type: none"> Power supply error Defective PCB | |

6.9 Concept of Inverter-Related Error Codes

CHECK 10



6.10 Thermistor Check

CHECK 11 Thermistor type of indoor units

| Model | Suction air thermistor | Indoor heat exchanger (liquid) thermistor | Indoor heat exchanger (gas) thermistor | Discharge air thermistor |
|--------|------------------------|---|--|--------------------------|
| | R1T | R2T | R3T | R4T |
| FCQ-TA | Type C | Type A | Type J | — |
| FCQ-AA | | | Type A | — |
| FHQ-P | Type B | | Type J | — |
| FHQ-M | | | | — |
| FAQ-TA | | | | — |
| FBQ-P | | | Type A | Type J |
| FBQ-TB | | | | — |
| FTQ-TA | | | | — |
| FTQ-TB | — | | — | |

Thermistor type of outdoor units

| Electric symbol | Thermistor | Type | |
|-----------------|------------------------------------|-------------|-------------|
| | | 18/24 class | 30-48 class |
| R1T | Outdoor air | E | E |
| R2T | Discharge pipe | G | G |
| R3T | Suction pipe 1 | A | A |
| R4T | Heat exchanger deicer | A | A |
| R5T | Suction pipe 2 | A | A |
| R6T | Subcooling heat exchanger gas pipe | — | A |
| R7T | Liquid pipe | A | A |
| R10T/FINTH | Radiation fin | K | K |

| Thermistor temperature | | Resistance (k Ω) | | | |
|------------------------|------|--|------------------------|--|------------------------|
| (°C) | (°F) | Type A | Type B | Type C | Type E |
| -30 | -22 | 363.8 | — | — | 357.9 |
| -25 | -13 | 266.8 | — | — | 263.5 |
| -20 | -4 | 197.8 | — | — | 196.1 |
| -15 | 5 | 148.2 | — | — | 147.4 |
| -10 | 14 | 112.0 | 111.1 | 111.8 | 111.8 |
| -5 | 23 | 85.52 | 84.95 | 85.42 | 85.53 |
| 0 | 32 | 65.84 | 65.53 | 65.80 | 66.00 |
| 5 | 41 | 51.05 | 50.95 | 51.07 | 51.31 |
| 10 | 50 | 39.91 | 39.92 | 39.97 | 40.20 |
| 15 | 59 | 31.44 | 31.50 | 31.51 | 31.74 |
| 20 | 68 | 24.95 | 25.02 | 25.02 | 25.23 |
| 25 | 77 | 19.94 | 20.00 | 20.00 | 20.19 |
| 30 | 86 | 16.04 | 16.10 | 16.10 | 16.26 |
| 35 | 95 | 12.99 | 13.04 | 13.04 | 13.17 |
| 40 | 104 | 10.58 | 10.63 | 10.63 | 10.74 |
| 45 | 113 | 8.669 | 8.720 | 8.711 | 8.806 |
| 50 | 122 | 7.143 | 7.189 | 7.179 | 7.260 |
| 55 | 131 | 5.918 | — | — | 6.014 |
| 60 | 140 | 4.928 | — | — | 5.008 |
| 65 | 149 | 4.123 | — | — | 4.191 |
| 70 | 158 | 3.467 | — | — | 3.525 |
| 75 | 167 | — | — | — | 2.978 |
| 80 | 176 | — | — | — | 2.527 |
| 85 | 185 | — | — | — | 2.153 |
| 90 | 194 | — | — | — | 1.843 |
| 95 | 203 | — | — | — | 1.583 |
| 100 | 212 | 1.339 | — | — | 1.365 |
| 105 | 221 | — | — | — | 1.181 |
| Drawing No. | | 3SA48002 3SA48004 3SA48018 3SA48019 (AD94A045) 3SA48013 (AD100026) | 3SA48001 (AD210486) | 3SA48016 (AD100008) 3S480014 (AD150384) | 3S480025 (AD180054) |

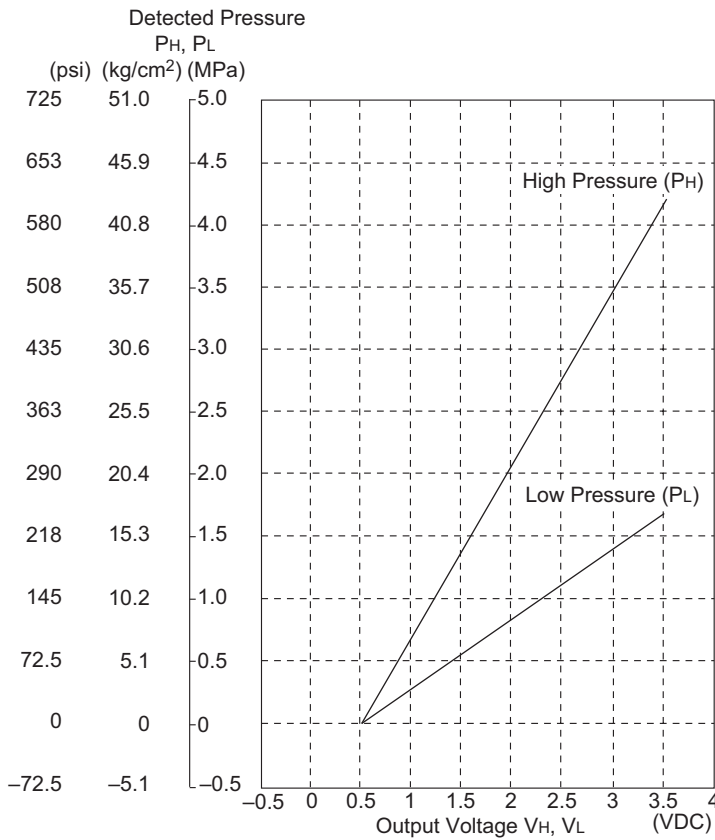
*The data is for reference purpose only.

| Thermistor temperature | | Resistance (k Ω) | | |
|------------------------|------|--------------------------|------------------------|------------------------|
| (°C) | (°F) | Type G | Type J | Type K |
| -30 | -22 | 4759 | 352.1 | 350.6 |
| -25 | -13 | 3454 | 261.2 | 257.4 |
| -20 | -4 | 2534 | 195.4 | 191.0 |
| -15 | 5 | 1877 | 147.3 | 143.2 |
| -10 | 14 | 1404 | 111.8 | 108.4 |
| -5 | 23 | 1059 | 85.49 | 82.83 |
| 0 | 32 | 806.5 | 65.80 | 63.80 |
| 5 | 41 | 618.9 | 51.15 | 49.53 |
| 10 | 50 | 478.8 | 40.08 | 38.75 |
| 15 | 59 | 373.1 | 31.64 | 30.56 |
| 20 | 68 | 292.9 | 25.16 | 24.26 |
| 25 | 77 | 231.4 | 20.14 | 19.40 |
| 30 | 86 | 184.1 | 16.23 | 15.62 |
| 35 | 95 | 147.4 | 13.16 | 12.65 |
| 40 | 104 | 118.7 | 10.73 | 10.31 |
| 45 | 113 | 96.13 | 8.800 | 8.447 |
| 50 | 122 | 78.29 | 7.255 | 6.962 |
| 55 | 131 | 64.10 | 6.012 | 5.769 |
| 60 | 140 | 52.76 | 5.010 | 4.805 |
| 65 | 149 | 43.63 | 4.196 | 4.021 |
| 70 | 158 | 36.26 | 3.532 | 3.381 |
| 75 | 167 | 30.27 | 2.987 | 2.856 |
| 80 | 176 | 25.38 | 2.538 | 2.422 |
| 85 | 185 | 21.37 | 2.166 | 2.063 |
| 90 | 194 | 18.06 | 1.857 | 1.764 |
| 95 | 203 | 15.33 | 1.598 | 1.515 |
| 100 | 212 | 13.06 | 1.380 | 1.305 |
| 105 | 221 | 11.17 | 1.196 | 1.128 |
| 110 | 230 | 9.585 | 1.041 | 0.9781 |
| 115 | 239 | 8.254 | 0.908 | 0.8506 |
| 120 | 248 | 7.131 | 0.795 | 0.7420 |
| 125 | 257 | 6.181 | 0.698 | 0.6495 |
| 130 | 266 | 5.374 | 0.615 | 0.5700 |
| 135 | 275 | 4.686 | 0.543 | — |
| 140 | 284 | 4.098 | 0.481 | — |
| 145 | 293 | 3.594 | 0.428 | — |
| 150 | 302 | 3.161 | 0.381 | — |
| Drawing No. | | 3SA48009 (AD970175) | 3SA48005 (AD190114) | 3P204139 (AD070077) |

*The data is for reference purpose only.

6.11 Pressure Sensor Check

CHECK 12



$$P_H \text{ (MPa)} = \frac{4.15}{3.0} \times V_H - \frac{4.15}{3.0} \times 0.5$$

$$P_L \text{ (MPa)} = \frac{1.7}{3.0} \times V_L - \frac{1.7}{3.0} \times 0.5$$

1 MPa = 145 psi

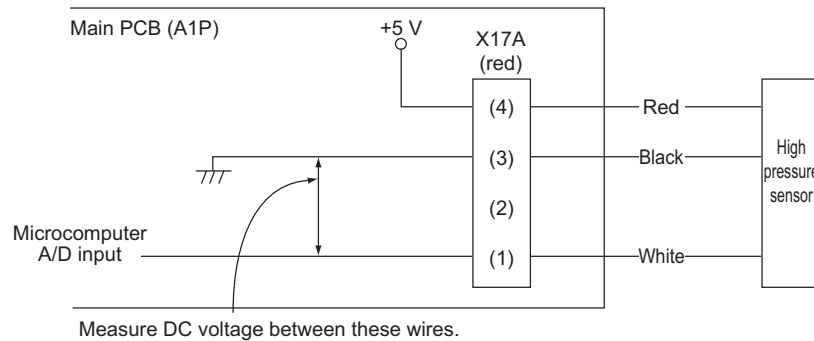
PH : High pressure (MPa)

PL : Low pressure (MPa)

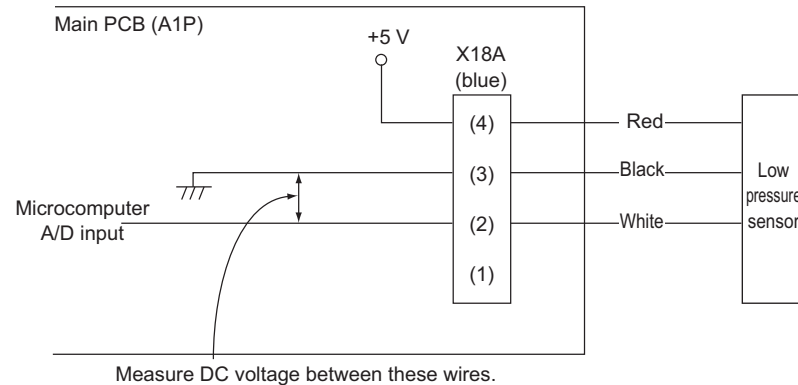
VH : Output Voltage (High Side) (VDC)

VL : Output Voltage (Low Side) (VDC)

Voltage Measurement Point of the High Pressure Sensor



Voltage Measurement Point of the Low Pressure Sensor



6.12 Broken Wire Check of the Relay Wires

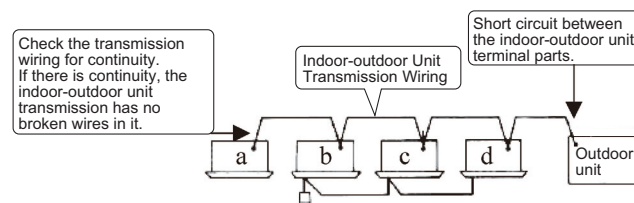
CHECK 15

Procedure for checking indoor-outdoor unit transmission wiring for broken wires (for checking the indoor-outdoor unit transmission wiring of the outdoor unit for broken wires).

Turn OFF the power supply to all equipment, short circuit between the indoor-outdoor unit terminal F1 and F2 in the outdoor unit, and then conduct continuity checks between the transmission wirings F1 and F2 of the indoor unit **a** that is farthest from the outdoor unit using a multimeter. If there is continuity between the said transmission wirings, the indoor-outdoor unit transmission wiring has no broken wires in it.

If there is no continuity, the transmission wiring may have broken wires. With the indoor-outdoor unit terminal of the outdoor unit short circuited, identify the place with continuity in the transmission wiring of the indoor unit **b**, transmission wiring of the indoor unit **c**, and transmission wiring of the indoor unit **d** in the order described.

If the place with continuity can be identified, there may be broken wires in places before the said place with continuity.



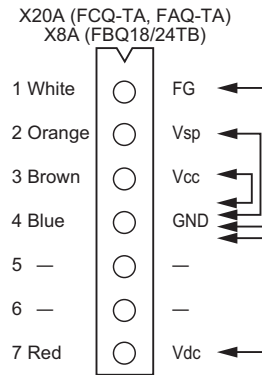
6.13 Fan Motor Connector Check

CHECK 16

Resistance measuring points and judgment criteria.

Indoor Unit

FCQ-TA, FAQ-TA, FBQ18/24TB

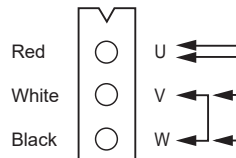


| Measuring points | Judgment criteria |
|------------------|-------------------|
| 1 - 4 | 1 Ω or more |
| 2 - 4 | |
| 3 - 4 | |
| 7 - 4 | |

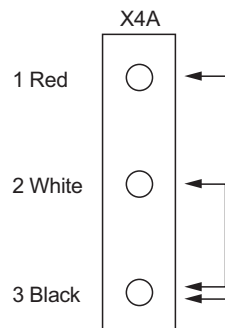
FCQ-AA

1. Turn the power supply OFF.
2. Disconnect the fan motor connector from the PCB and measure the resistances between U-V, V-W and W-U.

Judgment: Resistances must be balanced within 20%.



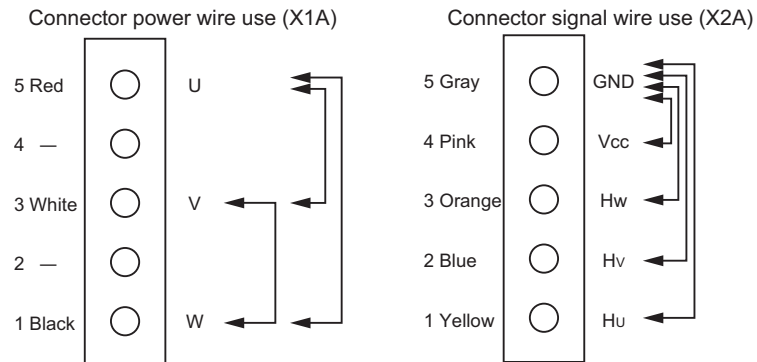
FHQ-P, FHQ-M



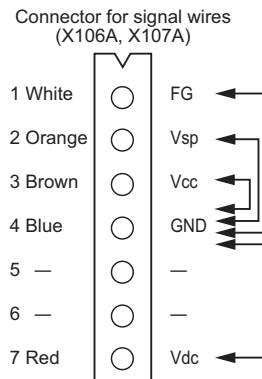
| Measuring points | Judgment criteria |
|------------------|-------------------|
| 1 - 3 | 53.5 Ω ± 10% |
| 2 - 3 | 31.6 Ω ± 10% |

FBQ-P, FBQ30-48TB

- (1) Measurement of power wire connector.
Remove the X1A connector from the fan PCB (A2P) and measure the resistance between the U and V, V and W, and W and U phases of the motor connector (with five conductors) and check that each phase are balanced (within a permissible dispersion range of $\pm 20\%$).
- (2) Measurement of signal wire connector.
Remove the X2A connector and measure the resistance between GND and Vcc, Hw, Hv, or Hu terminals of the motor connector (with five conductors).

**Outdoor Unit**

- (1) Turn OFF the power supply.
- (2) Remove the connector (X106A, X107A) on the PCB to measure the resistance value.
Judgment criteria: resistance value between each phase is within $\pm 20\%$



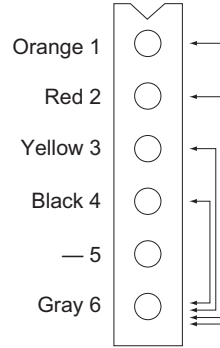
6.14 Electronic Expansion Valve Coil Check

CHECK 18

Measure the connector pin-to-pin resistance and make sure that the resistance value is within the range listed in the table below.

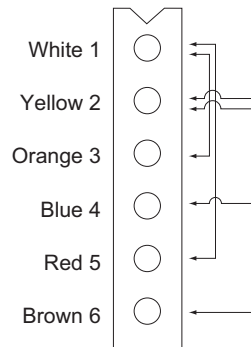
Indoor Unit

FCQ-TA, FCQ-AA, FBQ-TB, FTQ-TA, FTQ-TB



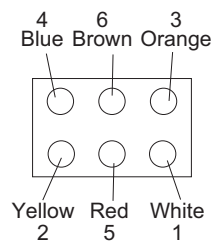
| Measuring points | Judgment criteria |
|------------------|-------------------|
| 1 - 6 | 35-55 Ω |
| 2 - 6 | |
| 3 - 6 | |
| 4 - 6 | |

FBQ-P, FAQ-TA



| Measuring points | Judgment criteria |
|------------------|-------------------|
| 1 - 3 | 300 Ω |
| 1 - 5 | 150 Ω |
| 2 - 4 | 300 Ω |
| 2 - 6 | 150 Ω |

FHQ-P, FHQ-M



| Measuring points | Judgment criteria |
|------------------|-------------------|
| 1 - 3 | 300 Ω |
| 1 - 5 | 150 Ω |
| 2 - 4 | 300 Ω |
| 2 - 6 | 150 Ω |

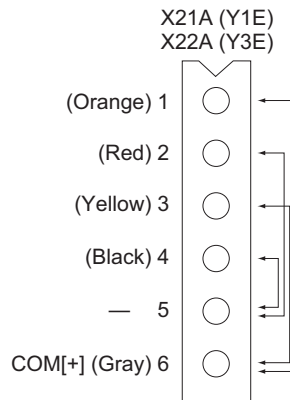
Outdoor Unit

18/24 class



| Measuring points | Judgment criteria |
|------------------|-------------------|
| 1 - 6 | 35-55 Ω |
| 2 - 6 | |
| 3 - 6 | |
| 4 - 6 | |

30-48 class



| Measuring points | Judgment criteria |
|------------------|-------------------|
| 1 - 6 | 35-55 Ω |
| 2 - 6 | |
| 3 - 6 | |
| 4 - 6 | |

6.15 Fan Motor Connector Check for FTQ-TA, FTQ-TB

CHECK 19

CHECKING EMERSON ULTRATECH™ ECM MOTORS

The FTQ-TA and FTQ-TB models utilize an Emerson, 4-wire variable speed ECM blower motor. The ECM blower motor provides constant CFM.

The motor is a serially communicating variable speed motor. Only four wires are required to control the motor: +Vdc, Common, Receive, and Transmit.

The +Vdc and Common wires provide power to the motor's low voltage control circuits.

General Checks / Considerations

1. Check power supply to the air handler or modular blower. Ensure power supply is within the range specified on rating plate.
2. Check motor power harness. Ensure wires are continuous and make good contact when seated in the connectors. Repair or replace as needed.
3. Check motor control harness. Ensure wires are continuous and make good contact when seated in the connectors. Repair or replace as needed.
4. Check blower wheel. Confirm wheel is properly seated on motor shaft. Set screw must be on shaft flat and torqued to 165 in-lbs minimum. Confirm wheel has no broken or loose blades. Repair or replace as needed.
5. Ensure motor and wheel turn freely. Check for interference between wheel and housing or wheel and motor. Repair or replace as needed.
6. Check housing for cracks and/or corrosion. Repair or replace as needed.
7. Check motor mounting bracket. Ensure mounting bracket is tightly secured to the housing. Ensure bracket is not cracked or broken.

Emerson UltraCheck-EZ™ Diagnostic Tool

The Emerson UltraCheck-EZ™ diagnostic tool may be used to diagnose the ECM motor.



Warning

HIGH VOLTAGE!

Disconnect ALL power before servicing or installing. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

To use the diagnostic tool, perform the following steps:

1. Disconnect power to the air handler.
2. Disconnect the 4-circuit control harness from the motor.
3. Plug the 4-circuit connector from the diagnostic tool into the motor control connector.
4. Connect one alligator clip from the diagnostic tool to a ground source.
5. Connect the other alligator clip to a 24VAC source.

NOTE: The alligator clips are NOT polarized.

NOTE: The UltraCheck-EZ™ diagnostic tool is equipped with a nonreplaceable fuse.

Connecting the tool to a source other than 24VAC could damage the tool and cause the fuse to open. Doing so will render the diagnostic tool inoperable.

6. Turn on power to air handler or modular blower.



Warning

Line Voltage now present.

7. Depress the orange power button on the diagnostic tool to send a run signal to the motor. Allow up to 5 seconds for the motor to start.

NOTE: If the orange power button does not illuminate when depressed, the tool either has an open fuse or is not properly connected to a 24VAC source.

8. The green LED on the diagnostic tool will blink indicating communications between the tool and motor. See table below for indications of tool indicators and motor actions. Replace or repair as needed.

| Power Button | Green LED | Motor Action | Indication(s) |
|--------------|-----------|--------------|---|
| OFF | OFF | Not Rotating | Confirm 24VAC to UltraCheck-EZ™ tool. If 24VAC is confirmed, diagnostic tool is inoperable. |
| ON | Blinking | Rotating | Motor and control/end bell are functioning properly. |
| ON | OFF | Rotating | Replace motor control/end bell. |
| ON | Blinking | Not Rotating | Check motor (refer to Motor Checks on page 392). |
| ON | OFF | Not Rotating | Replace motor control/end bell; verify motor (refer to Motor Checks on page 392). |

9. Depress the orange power button to turn off motor.

10. Disconnect power. Disconnect diagnostic tool.

11. Reconnect the 4-wire harness from control board to motor.

Electrical Checks - High Voltage Power Circuits



Warning

HIGH VOLTAGE!

Disconnect ALL power before servicing or installing. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

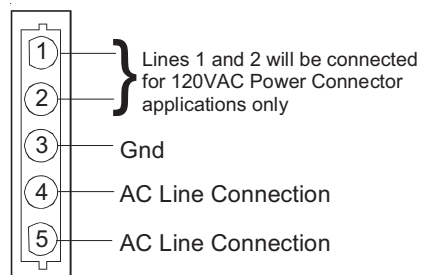
1. Disconnect power to air handler or modular blower.
2. Disconnect the 5-circuit power connector to the ECM motor.
3. Turn on power to air handler or modular.



Warning

Line Voltage now present.

4. Measure voltage between pins 4 and 5 on the 5-circuit connector. Measured voltage should be the same as the supply voltage to the air handler or modular.



5. Measure voltage between pins 4 and 3. Voltage should be approximately half of the voltage measured in step 4.
6. Measure voltage between pins 5 and 3. Voltage should be approximately half of the voltage measured in step 4.
7. If no voltage is present, check supply voltage to air handler or modular blower.
8. Disconnect power to air handler or modular blower. Reconnect the 5-circuit power harness disconnected in step 2.

Electrical Checks - Low Voltage Control Circuits

1. Turn on power to air handler or modular.



Warning

Line Voltage now present.

2. Check voltage between pins on the 4-wire motor control harness between the motor and control board.

3. Voltage on pins should read:

Pins 1 to 4 = 3.3vdc

Pins 1 to 2 = 3.3vdc

Pins 3 to 4 = 15vdc

Motor Control/End Bell Checks



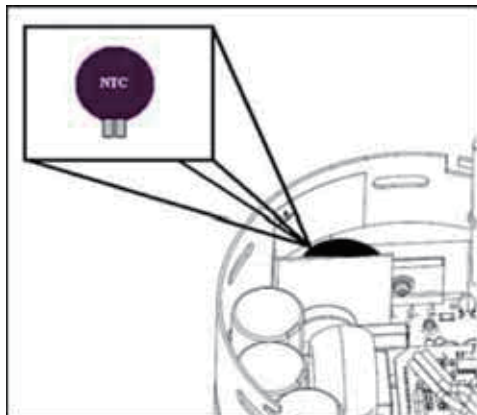
Warning

HIGH VOLTAGE!

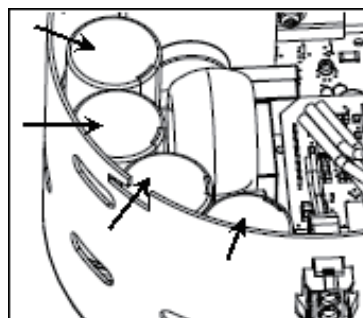
Disconnect ALL power before servicing or installing. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

1. Disconnect power to air handler or modular blower.

NOTE: Motor contains capacitors that can hold a charge for several minutes after disconnecting power. Wait 5 minutes after removing power to allow capacitors to discharge.
2. Disconnect the motor control harness and motor power harness.
3. Remove the blower assembly from the air handler or modular blower.
4. Remove the (3) screws securing the control/end bell to the motor. Separate the control/end bell. Disconnect the 3-circuit harness from the control/end bell to remove the control/end bell from the motor.
5. Inspect the NTC thermistor inside the control/end bell. Replace control/end bell if thermistor is cracked or broken.



6. Inspect the large capacitors inside the control/end bell. Replace the control/end bell if any of the capacitors are bulging or swollen.



7. Locate the 3-circuit connector in the control/end bell. Using an ohmmeter, check the resistance between each terminal in the connector. If the resistance is 1 M Ω or greater, the control/end bell is functioning properly. Replace the control/end bell if the resistance is lower than 1 M Ω .
8. Reassemble motor and control/end bell in reverse of disassembly. Replace blower assembly into air handler or modular blower.

Motor Checks



Warning

HIGH VOLTAGE!

Disconnect ALL power before servicing or installing. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

1. Disconnect power to air handler or modular blower.
NOTE: Motor contains capacitors that can hold a charge for several minutes after disconnecting power. Wait 5 minutes after removing power to allow capacitors to discharge.
2. Disassemble motor as described in steps 2 through 4 above.
3. Locate the 3-circuit harness from the motor. Using an ohmmeter, measure the resistance between each motor phase winding. The resistance levels should be equal. Replace the motor if the resistance levels are unequal, open circuited or short circuited.
4. Measure the resistance between each motor phase winding and the motor shell. Replace the motor if any phase winding is short circuited to the motor shell.
5. Reassemble motor and control/end bell in reverse of disassembly. Replace blower assembly into air handler or modular blower.

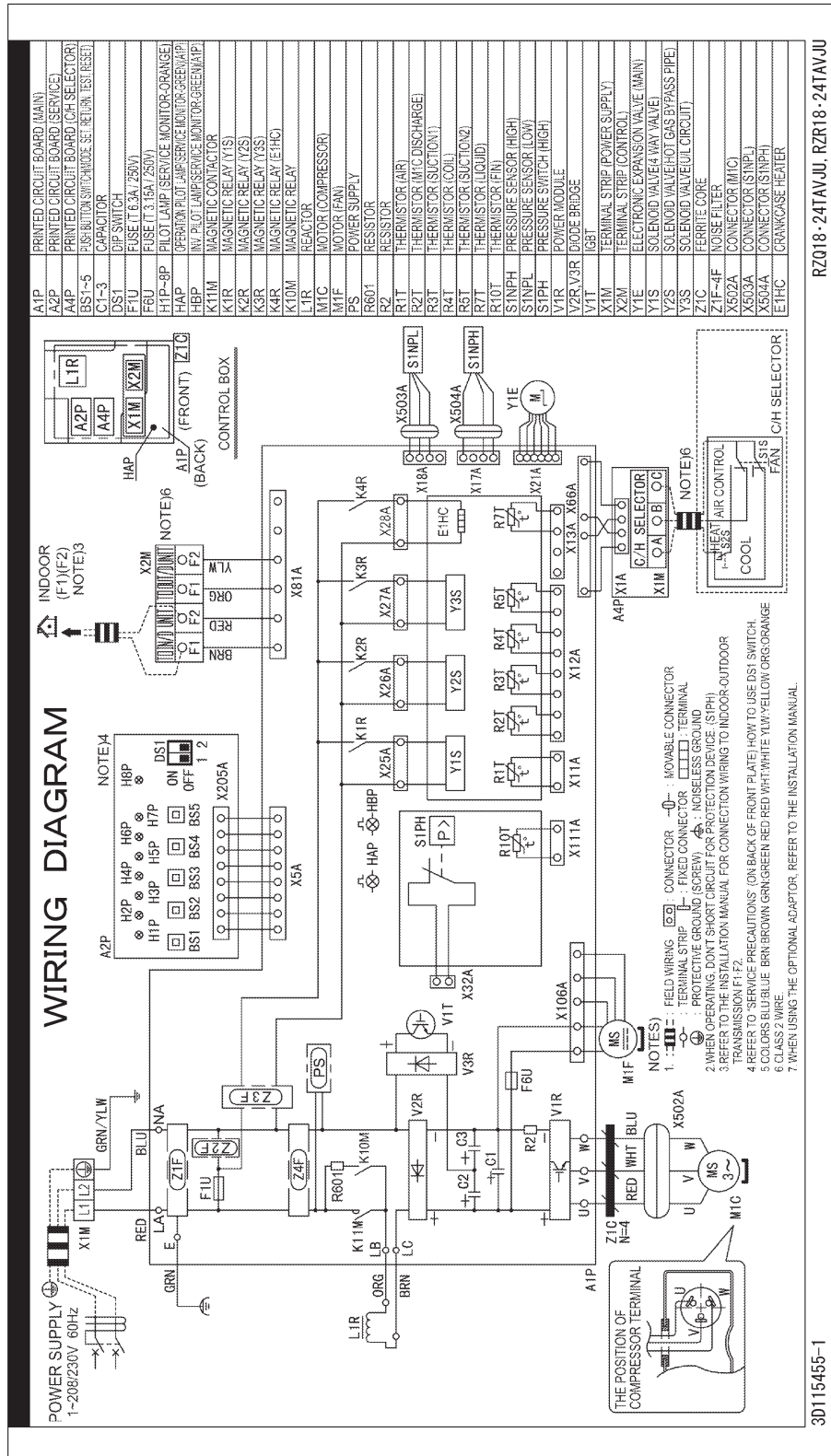
Part 7 Appendix

| | |
|-------------------------|-----|
| 1. Wiring Diagrams..... | 394 |
| 1.1 Outdoor Unit..... | 394 |
| 1.2 Indoor Unit..... | 400 |

1. Wiring Diagrams

1.1 Outdoor Unit

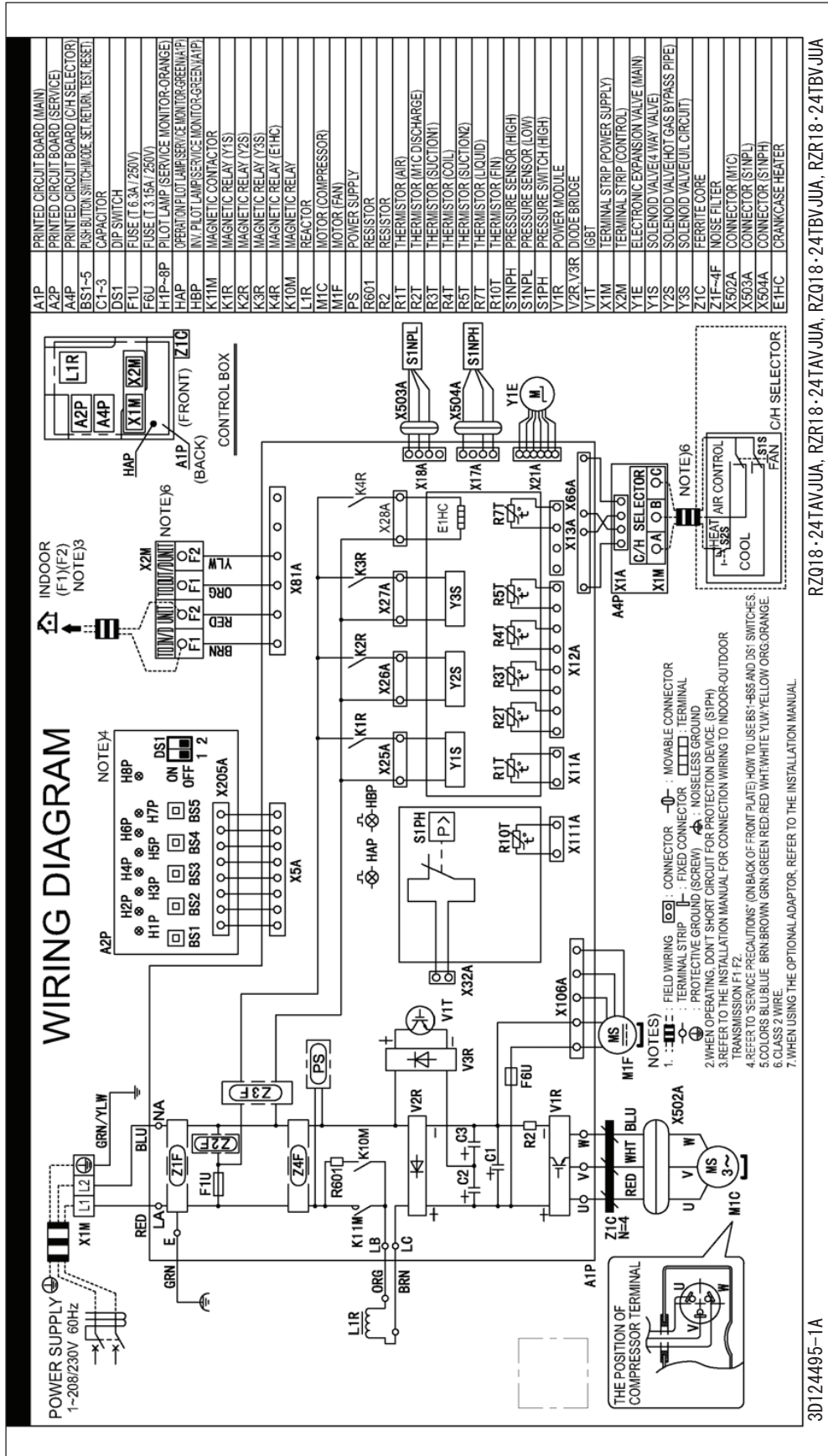
RZR18/24TAVJU, RZQ18/24TAVJU



RZ018-24TAVJU, RZR18-24TAVJU

3D115455

RZR18/24TAVJUA, RZQ18/24TAVJUA, RZR18/24TBVJUA, RZQ18/24TBVJUA

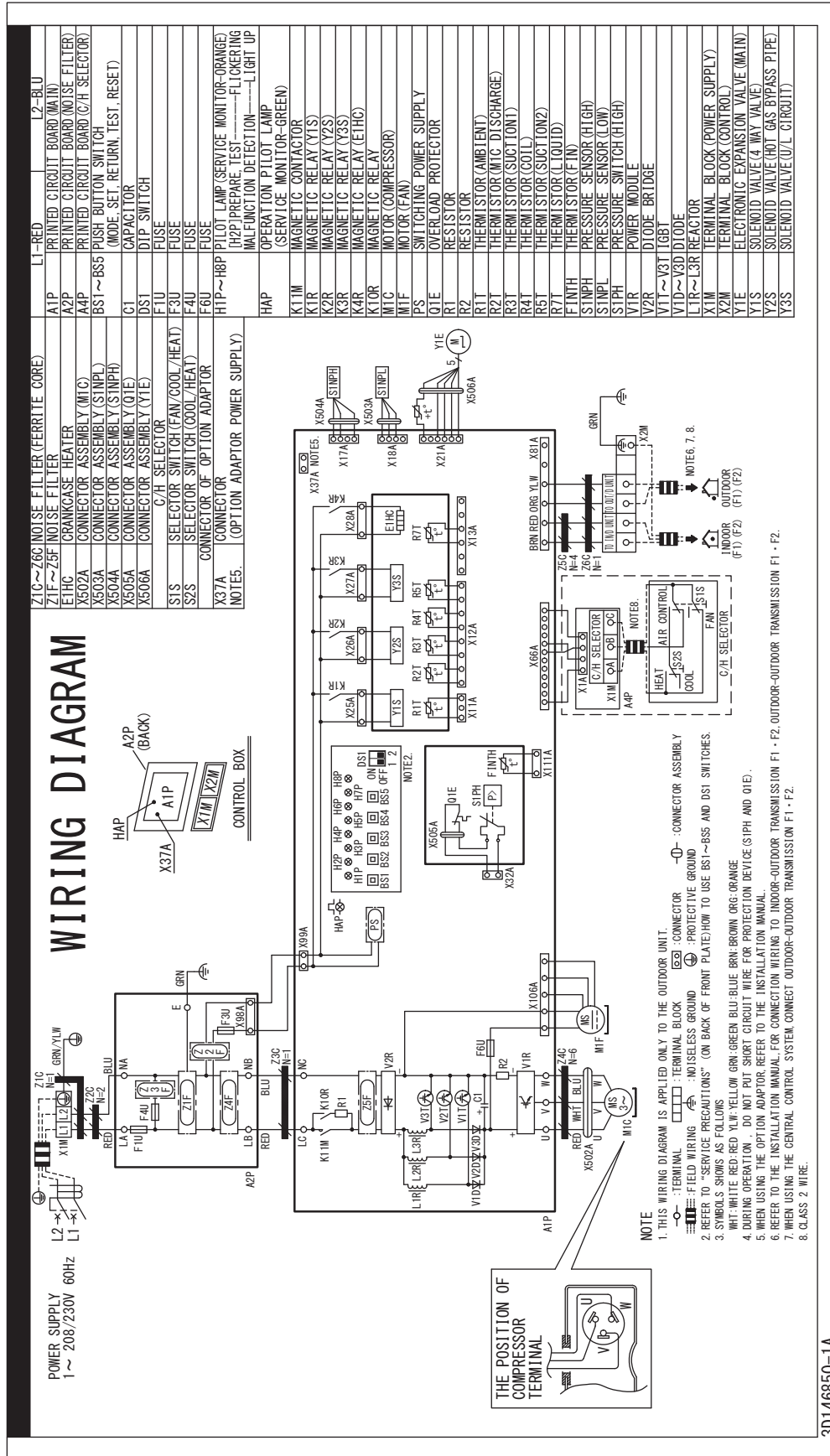


RZR18·24TAVJUA, RZQ18·24TAVJUA, RZR18·24TBVJUA, RZQ18·24TBVJUA

3D124495-1A

3D124495B

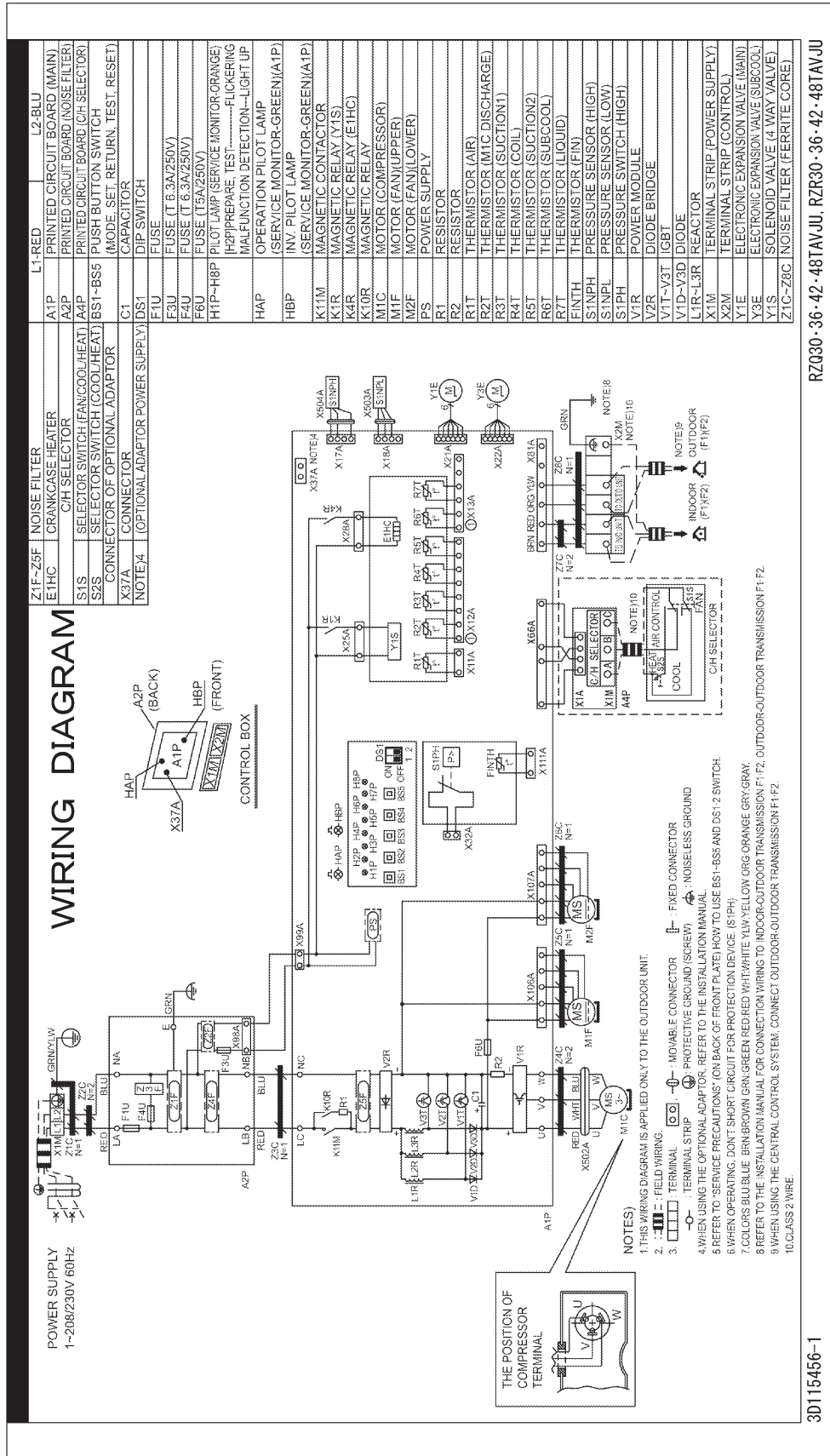
RZR18/24TBVJUB, RZQ18/24TBVJUB



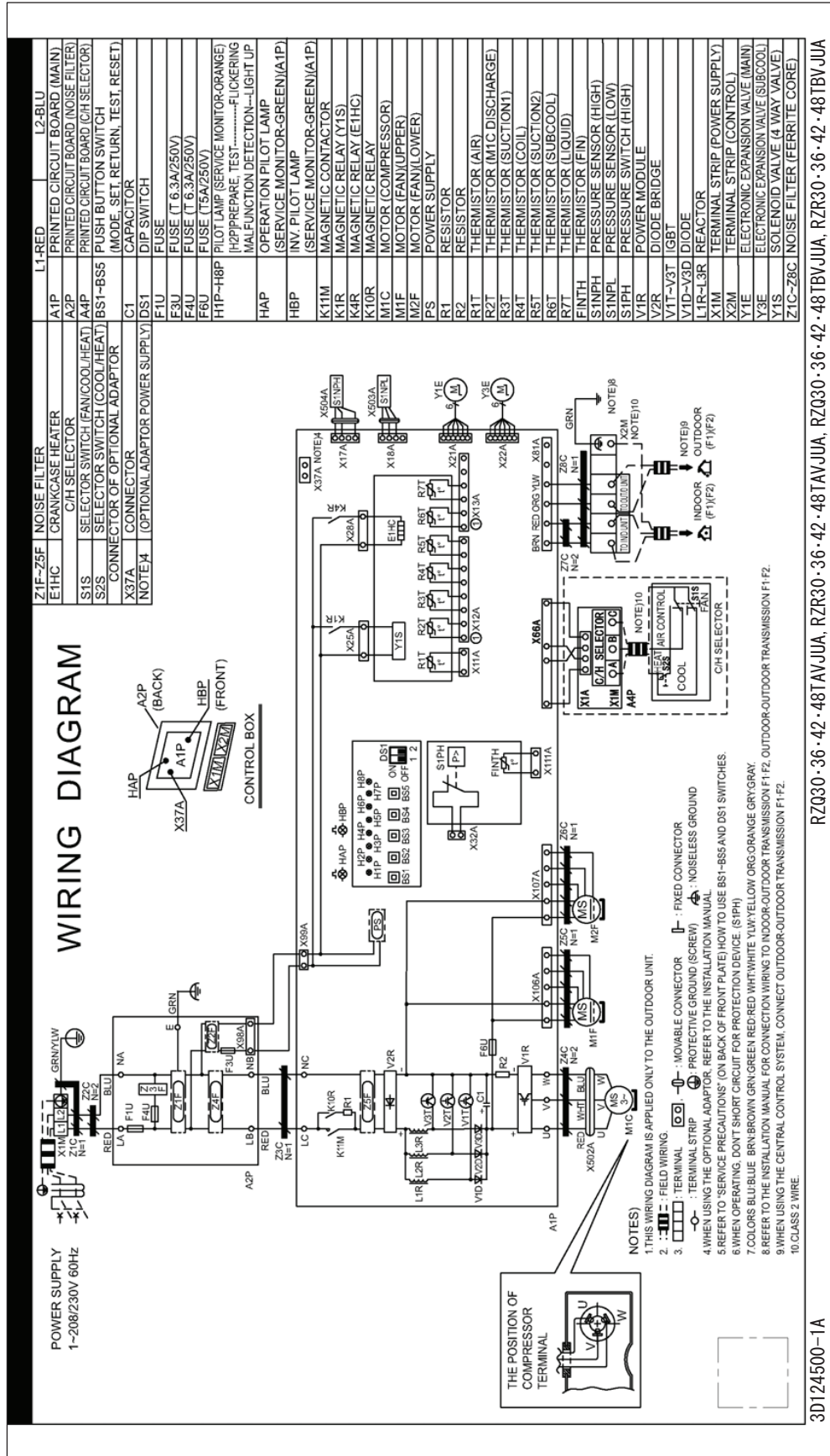
3D146850D

3D146850-1A

RZR30/36/42/48TAVJU, RZQ30/36/42/48TAVJU

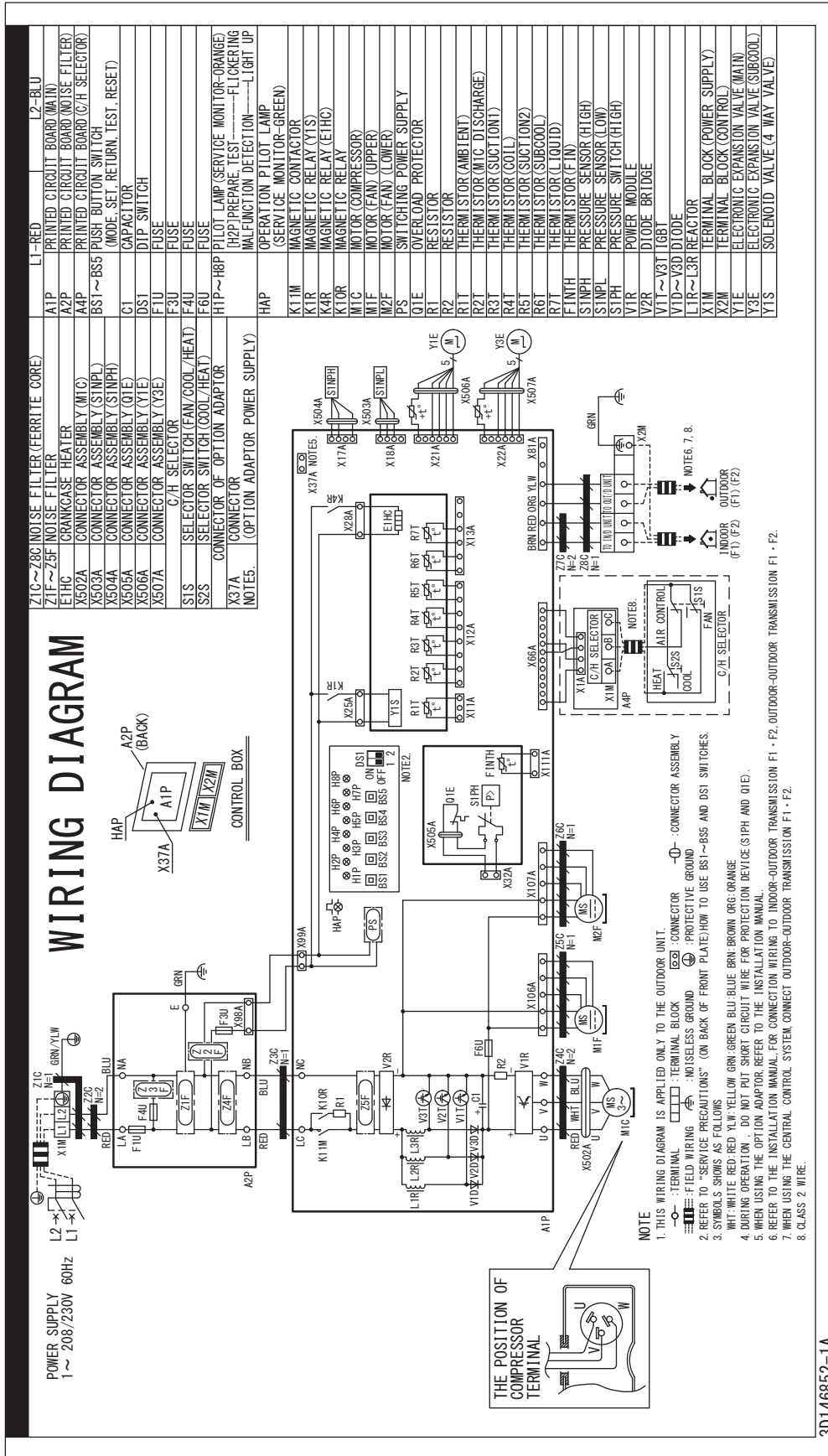


RZR30/36/42/48TAVJUA, RZQ30/36/42/48TAVJUA, RZR30/36/42/48TBVJUA, RZQ30/36/42/48TBVJUA



3D124500B

RZR30/36/42/48TBVJUB, RZQ30/36/42/48TBVJUB

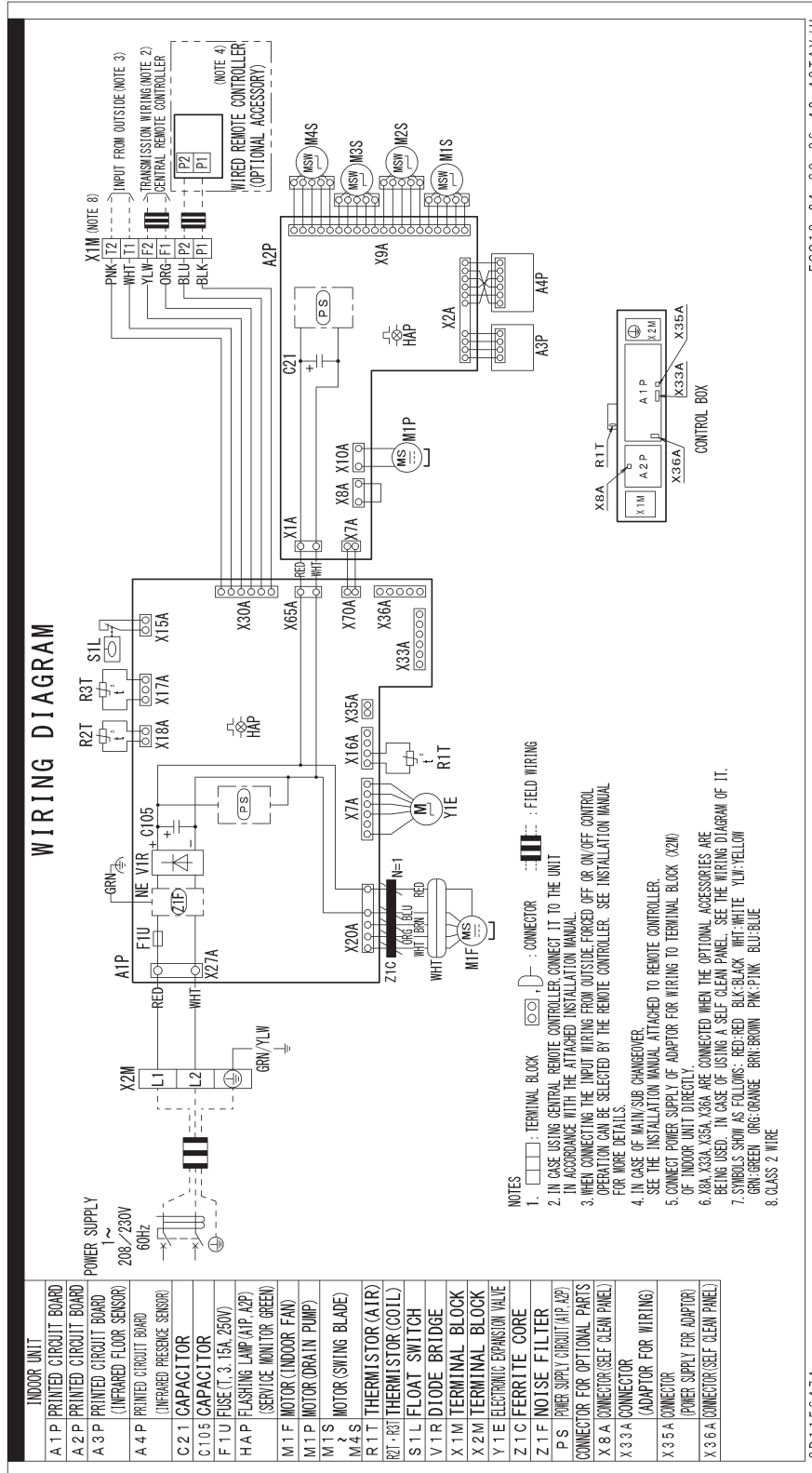


3D146852D

3D146852-1A

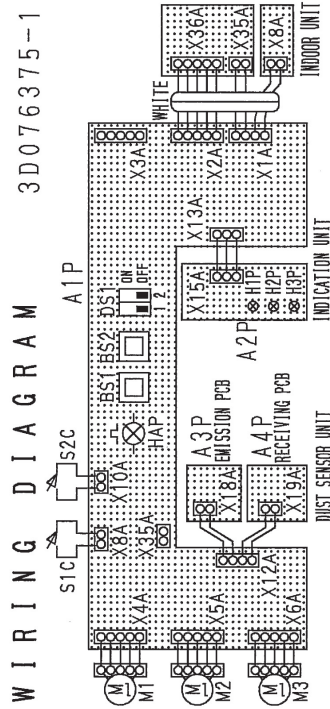
1.2 Indoor Unit

FCQ18/24/30/36/42/48TAVJU

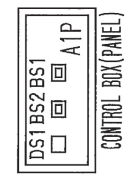


3D115647A

BYCQ125BGW1 (Self-Cleaning Decoration Panel for FCQ-TA)



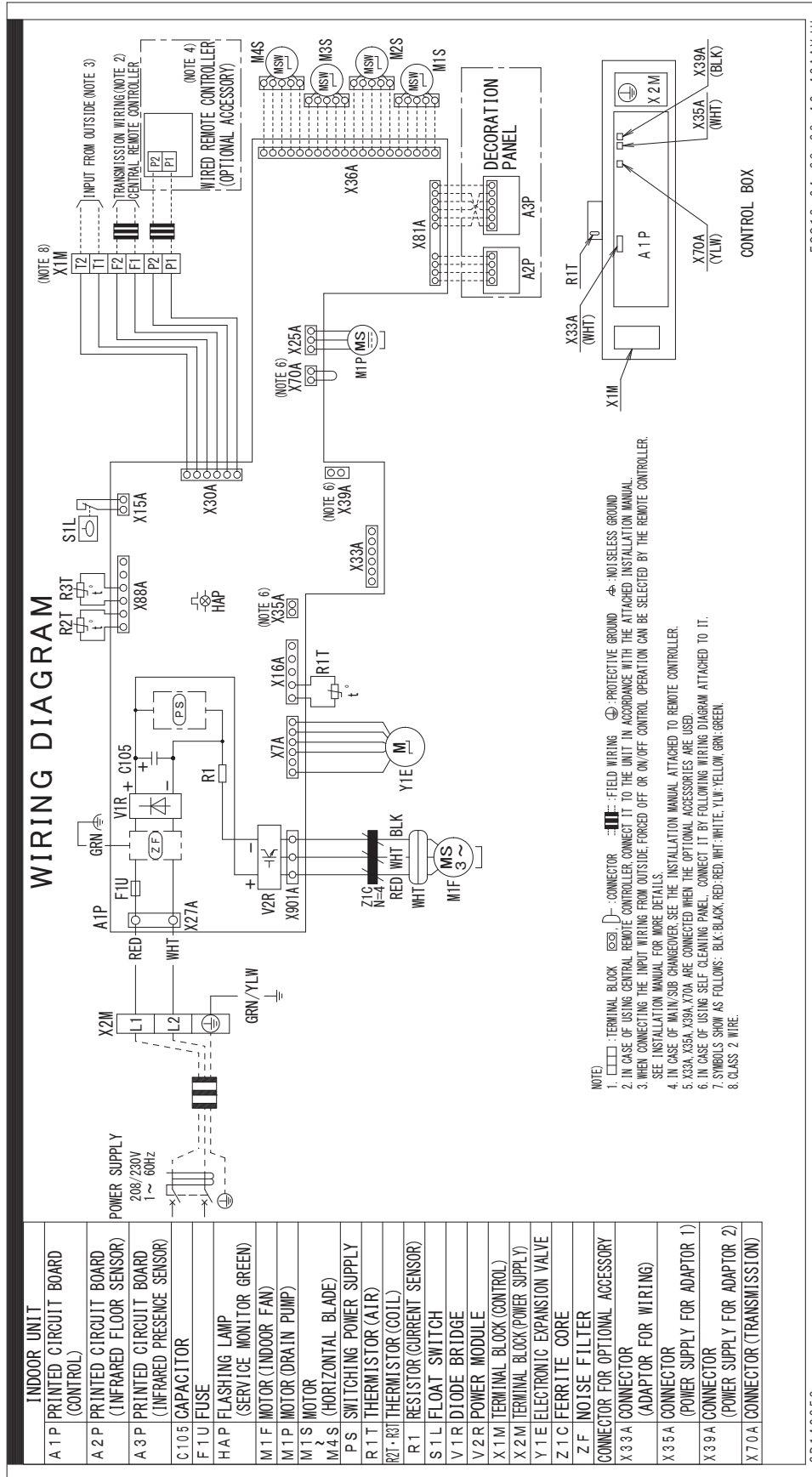
| | | | |
|-----|---|------|---|
| BS1 | PUSH BUTTON(FILTER AUTO CLEANING TEST) | HAP | LIGHT EMITTING DIODE(SERVICE MONITOR GREEN) |
| BS2 | PUSH BUTTON(RESET OF ABNORMALITY INDICATION) | S1C | LIMIT SWITCH(FILTER) |
| DS1 | 1 DIP SWITCH(FILTER CLEANING PROHIBITION MODE) | S2C | LIMIT SWITCH(DAMPER) |
| H1P | 2 DIP SWITCH(ON: INCREASES LIGHT QUANTITY OF DUST SENSOR) | M1 | MOTOR(FILTER) |
| H3P | INDICATOR AC RUNNING: LIGHTING | M2 | MOTOR(BRUSH) |
| H2P | INDICATOR FILTER CLEANING RUNNING: FLASHING | M3 | MOTOR(DAMPER) |
| | INDICATOR DUST DETECTING: LONG CYCLE FLASHING | X35A | CONNECTOR(GROUP CONTROL ADAPTOR) |
| | INDICATOR ABNORMAL: SHORT CYCLE FLASHING | | |



NOTE) 1. -O- THESE SYMBOLS SHOW CONNECTORS.
 2. WHEN DS1-1, -2 ARE TURNED ON, THEY WILL BE SET TO FILTER CLEANING PROHIBITION MODE AND INCREASE OF DUST DETECTION SENSOR LIGHT QUANTITY.
 3. H1P AND H3P ARE NOT SET TO LIGHT WHEN SHIPPED FROM THE FACTORY.
 4. POWER SUPPLY TO THE ADAPTOR WILL BE CONNECTED TO THE CONNECTOR(X35A) OF A1P.

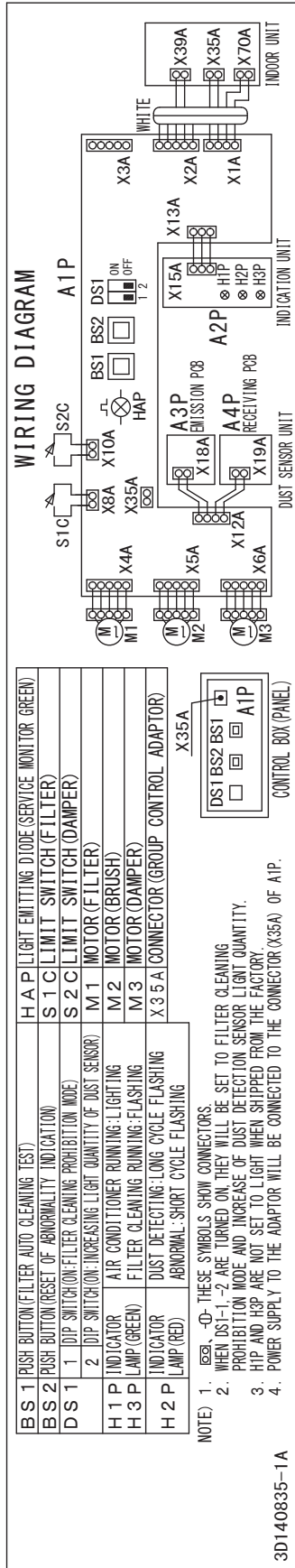
3D076375A

FCQ18/24/30/36/42/48AAVJU



3D142358

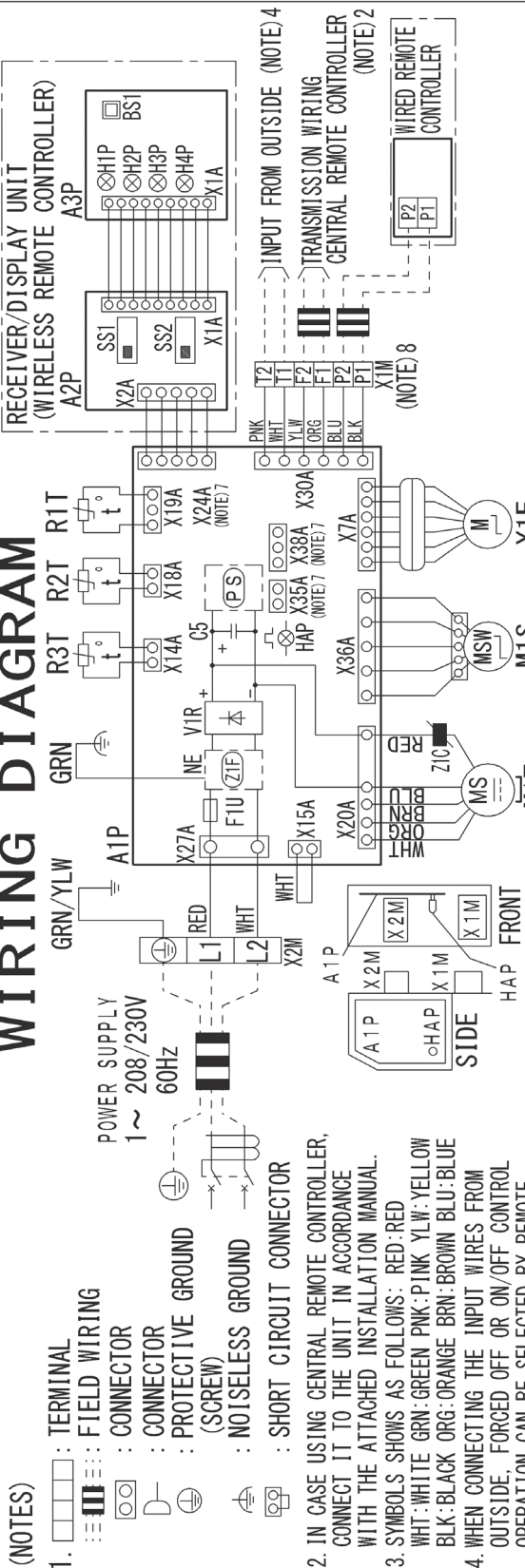
BYCQ54EEGFU (Self-Cleaning Decoration Panel for FCQ-AA)



3D140835A

FAQ18/24TAVJU

WIRING DIAGRAM



(NOTES)

1. □ □ □ □ : TERMINAL
 □ □ □ □ : FIELD WIRING
 □ □ □ □ : CONNECTOR
 □ □ □ □ : CONNECTOR
 □ □ □ □ : PROTECTIVE GROUND
 □ □ □ □ (SCREW)
 □ □ □ □ : NOISELESS GROUND
 □ □ □ □ : SHORT CIRCUIT CONNECTOR
2. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTALLATION MANUAL.
3. SYMBOLS SHOWS AS FOLLOWS: RED:RED
 WHT: WHITE GRN: GREEN PNK: PINK YLW: YELLOW
 BLK: BLACK ORG: ORANGE BRN: BROWN BLU: BLUE
4. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER. IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED TO THE UNIT.
5. REMOTE CONTROLLER MODEL VARIES ACCORDING TO THE COMBINATION SYSTEM. CONFIRM ENGINEERING DATA AND CATALOGS, ETC. BEFORE CONNECTING.
6. CONFIRM THE METHOD OF SETTING THE SELECTOR SWITCH (SS1, SS2) OF WIRELESS REMOTE CONTROLLER BY INSTALLATION MANUAL AND ENGINEERING DATA, ETC.
7. X15A, X24A, X35A AND X38A ARE CONNECTED WHEN THE OPTIONAL ACCESSORIES ARE BEING USED.
8. CLASS 2 WIRE

| INDOOR UNIT | INDOOR UNIT |
|---|--|
| A 1 P PRINTED CIRCUIT BOARD | R 3 T THERMISTOR (COIL GAS PIPE) |
| C 5 CAPACITOR | V 1 R DIODE BRIDGE |
| F 1 U FUSE (T 3.15AH 250V) | X 1 M TERMINAL BLOCK (CONTROL) |
| H A P FLASHING LAMP (SERVICE MONITOR GREEN) | X 2 M TERMINAL BLOCK (POWER) |
| M 1 F MOTOR (INDOOR FAN) | Y 1 E ELECTRONIC EXPANSION VALVE |
| M 1 S MOTOR (SWING FLAP) | Z 1 C FERRITE CORE |
| P S SWITCHING POWER SUPPLY | Z 1 F NOISE FILTER |
| R 1 T THERMISTOR (AIR) | RECEIVER/DISPLAY UNIT (ATTACHED TO WIRELESS REMOTE CONTROLLER) |
| R 2 T THERMISTOR (COIL LIQUID PIPE) | A 2 P PRINTED CIRCUIT BOARD |
| | A 3 P PRINTED CIRCUIT BOARD |

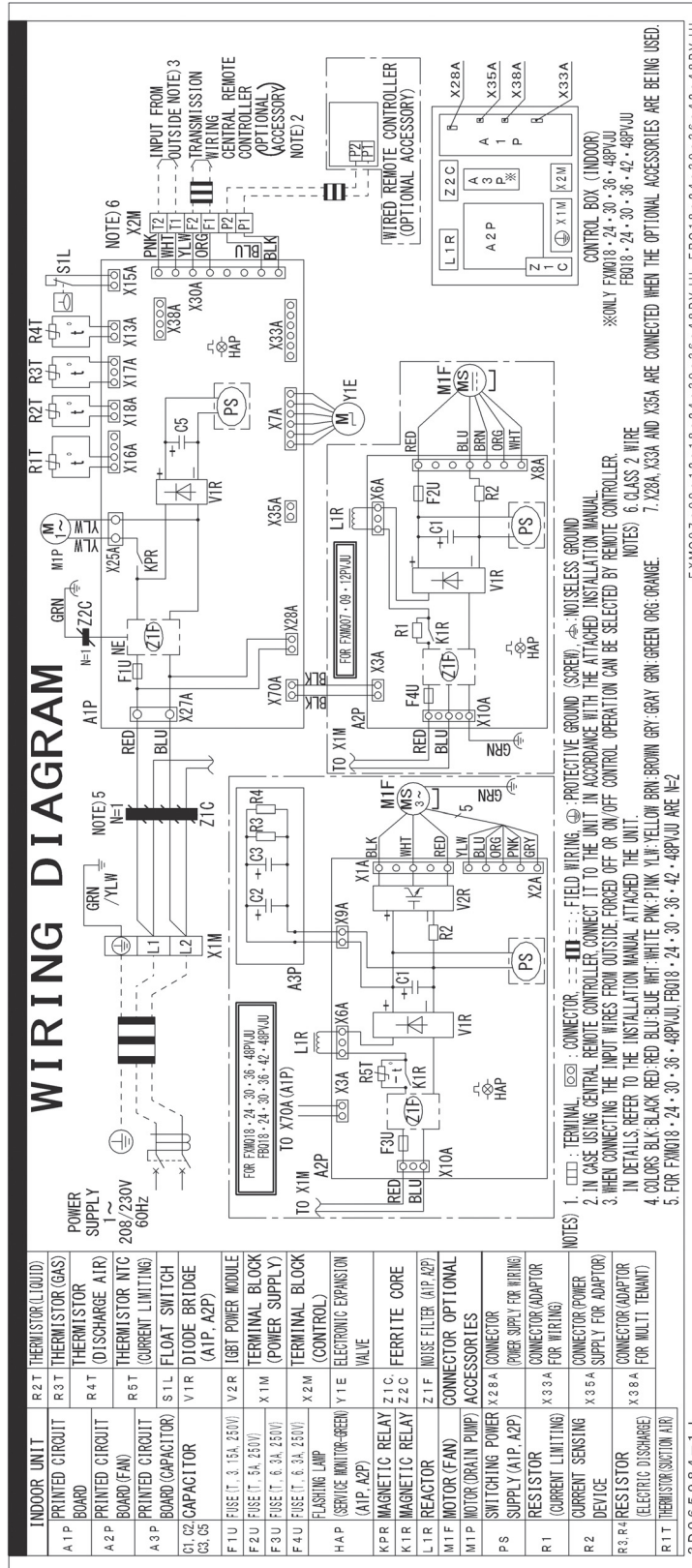
| |
|--|
| BS 1 PUSH BUTTON SWITCH (ON/OFF) |
| H 1 P PILOT LAMP (ON-RED) |
| H 2 P PILOT LAMP (TIMER-GREEN) |
| H 3 P PILOT LAMP (FILTER SIGN-RED) |
| H 4 P PILOT LAMP (DEFROST-ORANGE) |
| SS 1 SELECTOR SWITCH (MAIN/SUB) |
| SS 2 SELECTOR SWITCH (WIRELESS ADDRESS SET) |
| CONNECTOR FOR OPTIONAL PARTS |
| X 1 5 A CONNECTOR (FLOAT SWITCH) |
| X 2 4 A CONNECTOR (WIRELESS REMOTE CONTROLLER) |
| X 3 5 A CONNECTOR (GROUP CONTROL ADAPTOR) |
| X 3 8 A CONNECTOR (ADAPTOR FOR MULTI TENANT) |

FAQ18, 24TAVJU

3D114844-1A

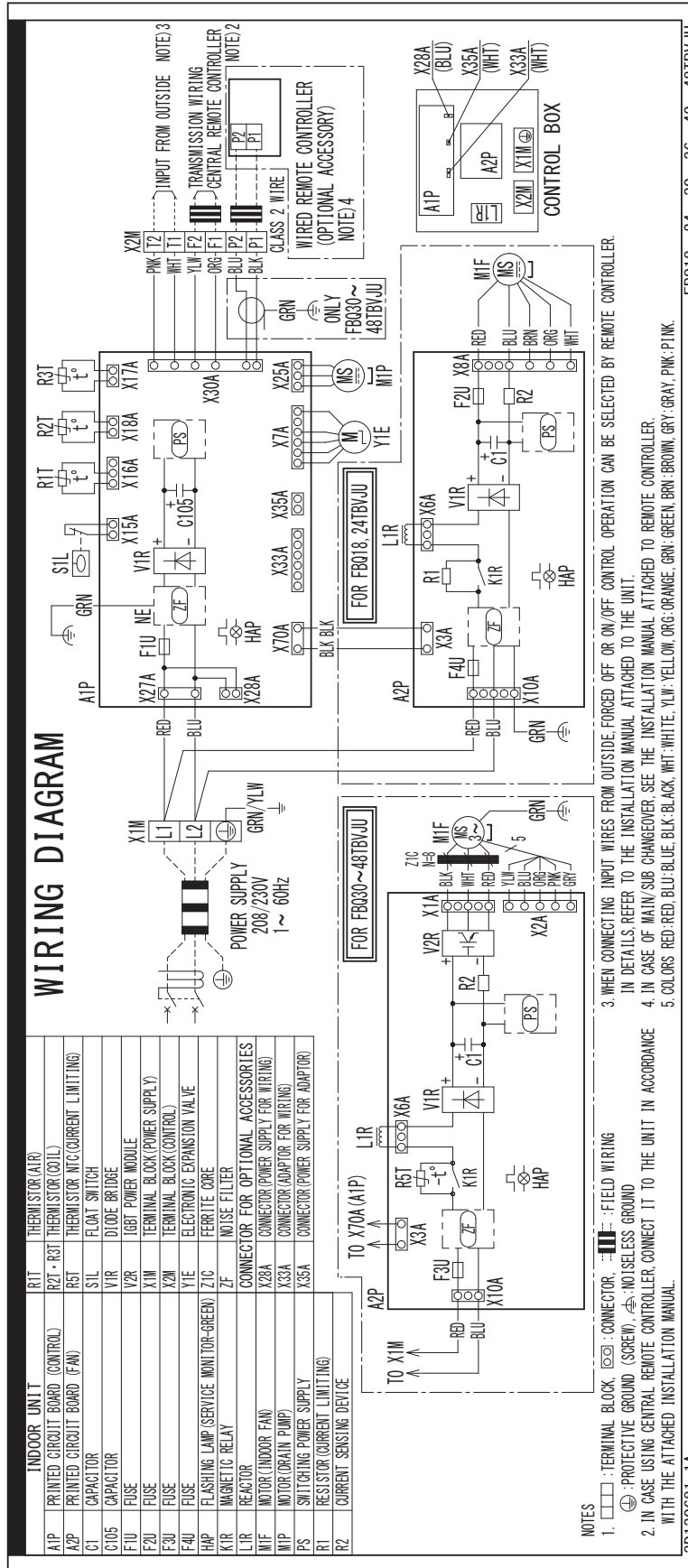
3D114844B

FBQ18/24/30/36/42/48PVJU



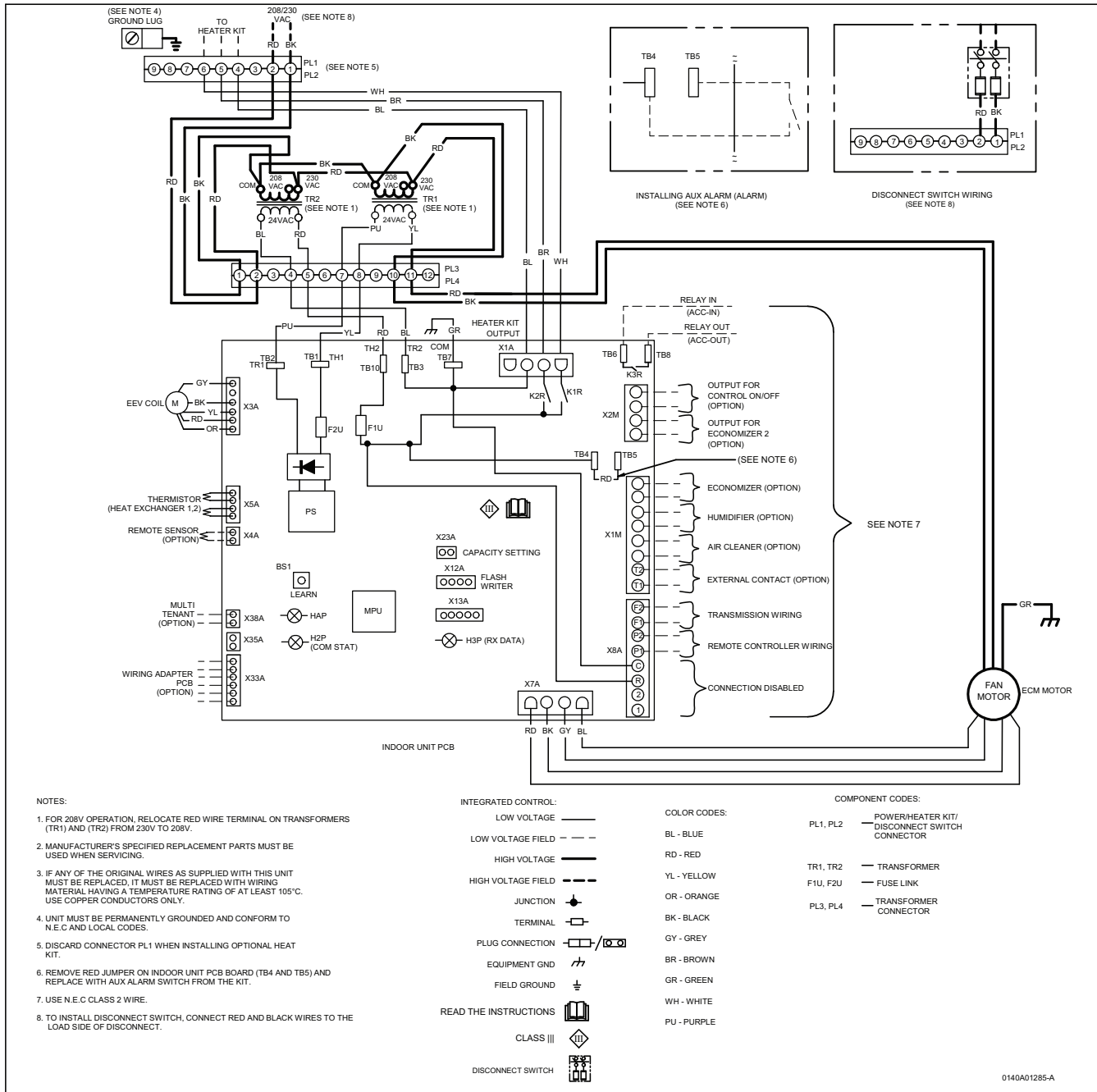
3D065984J

FBQ18/24/30/36/42/48TBVJU



3D130681B

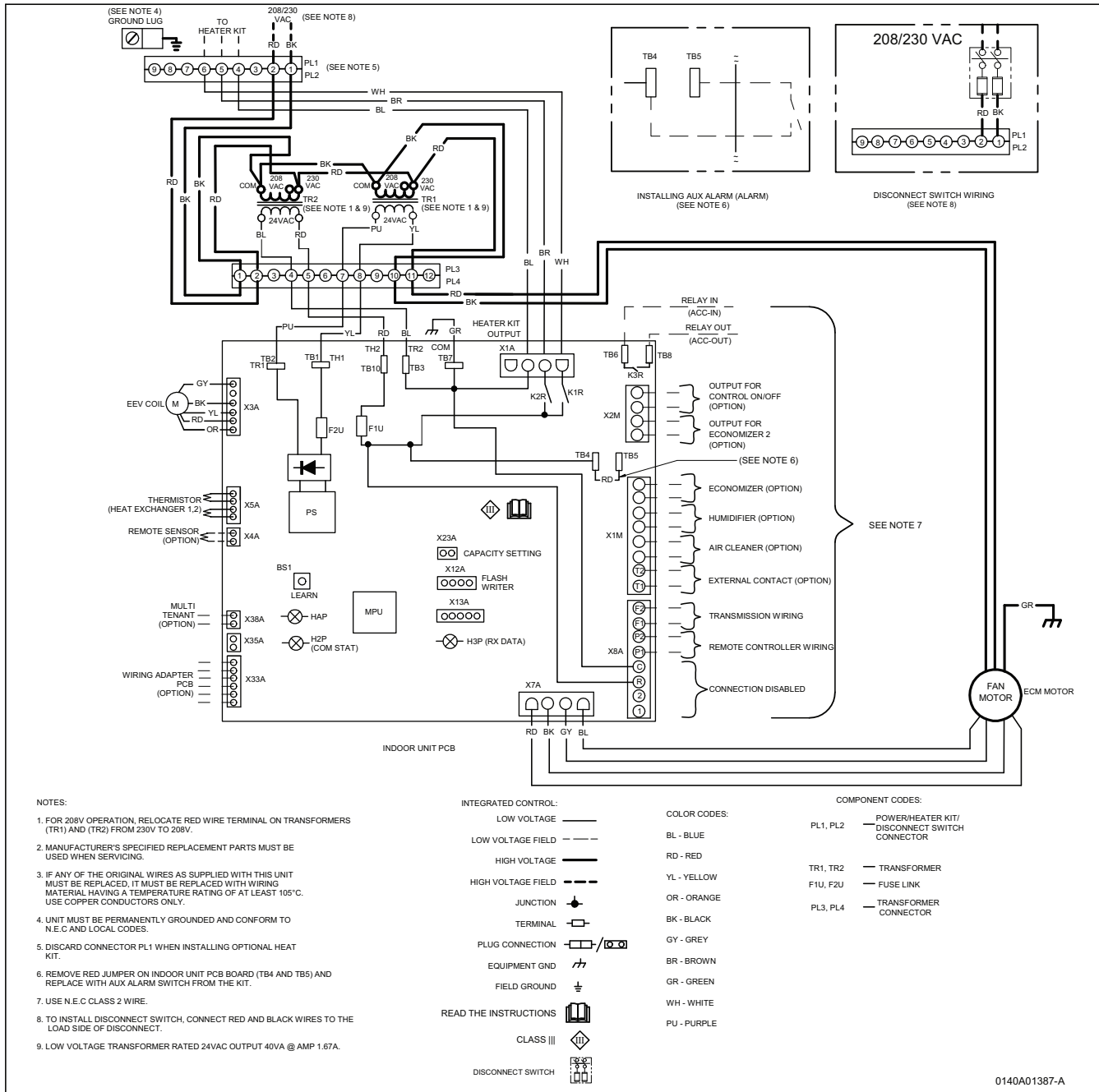
FTQ18/24/30/36/42/48TAVJUD, FTQ18/24/30/36/42/48TAVJUA



0140A01285-A

C: 0140A01285A

FTQ18/24/30/36/42/48TBVJUD, FTQ18/24/30/36/42/48TBVJUA



NOTES:

1. FOR 208V OPERATION, RELOCATE RED WIRE TERMINAL ON TRANSFORMERS (TR1) AND (TR2) FROM 230V TO 208V.
2. MANUFACTURER'S SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
3. IF ANY OF THE ORIGINAL WIRES AS SUPPLIED WITH THIS UNIT MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105°C. USE COPPER CONDUCTORS ONLY.
4. UNIT MUST BE PERMANENTLY GROUNDING AND CONFORM TO N.E.C AND LOCAL CODES.
5. DISCARD CONNECTOR PL1 WHEN INSTALLING OPTIONAL HEAT KIT.
6. REMOVE RED JUMPER ON INDOOR UNIT PCB BOARD (TB4 AND TB5) AND REPLACE WITH AUX ALARM SWITCH FROM THE KIT.
7. USE N.E.C CLASS 2 WIRE.
8. TO INSTALL DISCONNECT SWITCH, CONNECT RED AND BLACK WIRES TO THE LOAD SIDE OF DISCONNECT.
9. LOW VOLTAGE TRANSFORMER RATED 24VAC OUTPUT 40VA @ AMP 1.67A.

INTEGRATED CONTROL:

- LOW VOLTAGE ———
- LOW VOLTAGE FIELD - - - -
- HIGH VOLTAGE ———
- HIGH VOLTAGE FIELD - - - -
- JUNCTION —
- TERMINAL —
- PLUG CONNECTION —
- EQUIPMENT GND —
- FIELD GROUND —
- CLASS III —
- DISCONNECT SWITCH —

READ THE INSTRUCTIONS



COLOR CODES:

- BL - BLUE
- RD - RED
- YL - YELLOW
- OR - ORANGE
- BK - BLACK
- GY - GREY
- BR - BROWN
- GR - GREEN
- WH - WHITE
- PU - PURPLE

COMPONENT CODES:

- PL1, PL2 — POWER/HEATER KIT/ DISCONNECT SWITCH CONNECTOR
- TR1, TR2 — TRANSFORMER
- F1U, F2U — FUSE LINK
- PL3, PL4 — TRANSFORMER CONNECTOR

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Warning

- Daikin products are manufactured for export to numerous countries throughout the world. Prior to purchase, please confirm with your local authorized 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 unauthorized 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 inquiries, 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.

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