

DAIKIN ROOM AIR CONDITIONER

# INSTALLATION MANUAL

R32 Split Series



Installation manual  
Manuel d'installation  
Manual de instalación

## MODELS

FTXF18BVJU9

FTXF24BVJU9

FTKF18BVJU9

FTKF24BVJU9



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The pictures in this document are for illustrative purposes only.


# Safety Considerations

Refer also to the General Safety Considerations in the separate booklet.

	<b>Read the precautions in this manual carefully before operating the unit.</b>
	<b>This appliance is filled with R32.</b>

Read these **Safety Considerations for Installation** carefully before installing an air conditioner or heat pump. After completing the installation, make sure that the unit operates properly during the startup operation.  
Instruct the user on how to operate and maintain the unit. Inform users that they should store this installation manual with the operation manual for future reference.  
Always use a licensed installer or contractor to install this product. Improper installation can result in water or refrigerant leakage, electric shock, fire, or explosion.  
Meanings of **DANGER**, **WARNING**, **CAUTION**, and **NOTE** Symbols:

-  **DANGER** ..... Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
-  **WARNING** ..... Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
-  **CAUTION** ..... Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
-  **NOTE** ..... Indicates situations that may result in equipment or property-damage accidents only.

-  **DANGER** .....
  - Refrigerant gas is heavier than air and replaces oxygen. A massive leak can lead to oxygen depletion, especially in basements, and an asphyxiation hazard could occur leading to serious injury or death.
  - Do not ground units to water pipes, gas pipes, telephone wires, or lightning rods as incomplete grounding can cause a severe shock hazard resulting in severe injury or death. Additionally, grounding to gas pipes could cause a gas leak and potential explosion causing severe injury or death.

- If refrigerant gas leaks during installation, ventilate the area immediately. Refrigerant gas may produce toxic gas if it comes into contact with fire. Exposure to this gas could cause severe injury or death.
- After completing the installation work, check that the refrigerant gas does not leak throughout the system.
- Do not install unit in an area where flammable materials are present due to risk of explosions that can cause serious injury or death.
- Safely dispose all packing and transportation materials in accordance with federal/state/local laws or ordinances. Packing materials such as nails and other metal or wood parts, including plastic packing materials used for transportation may cause injury or death by suffocation.
- All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal.

## WARNING

- Only qualified personnel licensed or certified in their jurisdiction must carry out the installation work. Installation must be done in accordance with this installation manual. Improper installation may result in water leakage, electric shock, or fire.
- Pipe-work including piping material, pipe routing, and installation shall include protection from physical damage in operation and service, and be in compliance with national and local codes and standards, such as ASHRAE 15, ASHRAE 15.2, IAPMO Uniform Mechanical Code, ICC International Mechanical Code, or CSA B52. All field joints shall be accessible for inspection prior to being covered or enclosed.
- When installing the unit in a small room, take measures to keep the refrigerant concentration from exceeding allowable safety limits. Excessive refrigerant leaks, in the event of an accident in a closed ambient space, can lead to oxygen deficiency.
- Use only specified accessories and parts for installation work. Failure to use specified parts may result in water leakage, electric shock, fire, or the unit falling.
- Install the air conditioner or heat pump on a foundation strong enough that it can withstand the weight of the unit. A foundation of insufficient strength may result in the unit falling and causing injury.

- Take into account strong winds, typhoons, or earthquakes when installing. Improper installation may result in the unit falling and causing accidents.
- Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel licensed or certified in their jurisdiction according to local, state, and national regulations. An insufficient power supply capacity or improper electrical construction may lead to electric shock or fire.
- Make sure that all wiring is secured, that specified wires are used, and that no external forces act on the terminal connections or wires. Improper connections or installation may result in fire.
- When wiring, position the wires so that the service lid can be securely fastened. Improper positioning of the service lid may result in electric shock, fire, or the terminals overheating.
- Before touching electrical parts, turn off the unit.
- The circuit must be protected with safety devices in accordance with local and national codes, i.e. a circuit breaker.
- Securely fasten the outdoor unit service lid. If the service lid is not installed properly, dust or water may enter the outdoor unit causing fire or electric shock.
- When installing or relocating the system, keep the refrigerant circuit free from substances other than the specified refrigerant (R32) such as air. Any presence of air or other foreign substance in the refrigerant circuit can cause an abnormal pressure rise or rupture, which may result in equipment damage and even injury.
- Do not change the setting of the protection devices. If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Daikin are used, fire or explosion may occur.
- Do not use means to accelerate the defrosting process (if possible) or to clean, other than those recommended by the manufacturer.
- The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odor.
- Comply with national gas regulations.
- The indoor equipment and pipes shall be securely mounted and guarded such that accidental rupture of equipment cannot occur from such events as moving furniture or reconstruction activities.
- Be careful when transporting the product.
- Do not turn off the power immediately after stopping operation. Always wait for at least 5 minutes before turning off the power. Otherwise, water leakage may occur.
- Do not use a charging cylinder. Using a charging cylinder may cause the refrigerant to deteriorate.
- Refrigerant R32 in the system must be kept clean, dry, and tight.
  - (a) Clean and Dry -- Foreign materials (including mineral oils such as SUNISO oil or moisture) should be prevented from getting into the system.
  - (b) Tight -- R32 does not contain any chlorine, does not destroy the ozone layer, and does not reduce the earth's protection against harmful ultraviolet radiation. R32 can contribute to the greenhouse effect if it is released. Therefore take proper measures to check for the tightness of the refrigerant piping installation. Read the chapter *Refrigerant Piping Work* and follow the procedures.
- The indoor unit is for R32. See the catalog for outdoor models that can be connected. Normal operation is not possible when connected to non-compatible outdoor units.
- Remote controller (wireless kit) transmitting distance can be shorter than expected in rooms with electronic fluorescent lamps (inverter or rapid start types). Install the indoor unit far away from fluorescent lamps as much as possible.
- Indoor units are for indoor installation only. Outdoor units can be installed either outdoors or indoors.
- Do not install the air conditioner or heat pump in the following locations:
  - (a) Where a mineral oil mist or oil spray or vapor is produced, for example, in a kitchen. Plastic parts may deteriorate and fall off or result in water leakage.
  - (b) Where corrosive gas, such as sulfurous acid gas, is produced. Corroding copper pipes or soldered parts may result in refrigerant leakage.
  - (c) Near machinery emitting electromagnetic waves. Electromagnetic waves may disturb the operation of the control system and cause the unit to malfunction.
  - (d) Where flammable gas may leak, where there is carbon fiber, or ignitable dust suspension in the air, or where volatile flammables such as thinner or gasoline are handled. Operating the unit in such conditions can cause a fire.
- Take adequate measures to prevent the outdoor unit from being used as a shelter by small animals. Small animals making contact with electrical parts can cause malfunctions, smoke, or fire. Instruct the user to keep the area around the unit clean.
- Servicing shall be performed only as recommended by the manufacturer and licensed or certified in their jurisdiction.

## ⚠ CAUTION

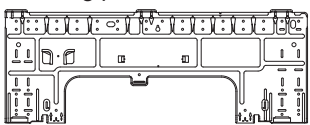

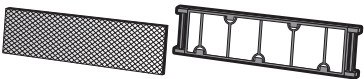



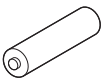


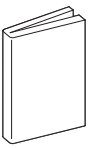
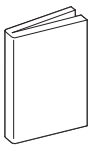

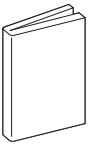
- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
- Do not allow children to play on or around the unit to prevent injury.
- Wear adequate personal protective equipment (protective gloves, safety glasses,...) when installing, maintaining or servicing the system.
- The heat exchanger fins are sharp enough to cut. To avoid injury, wear gloves or cover the fins while working around them.
- Do not touch the refrigerant pipes during and immediately after operation as the refrigerant pipes may be hot or cold, depending on the condition of the refrigerant flowing through the refrigerant piping, compressor, and other refrigerant cycle parts. Your hands may suffer burns or frostbite if you touch the refrigerant pipes. To avoid injury, give the pipes time to return to normal temperature or, if you must touch them, be sure to wear proper gloves.
- Install drain piping to ensure proper drainage. Improper drain piping may result in water leakage and property damage.
- Insulate piping to prevent condensation.

## ⚠ NOTE

- The indoor unit should be positioned where the unit and interunit wires (outdoor to indoor) are at least 3.3ft (1m) away from any televisions or radios. (The unit may cause interference with the picture or sound.) Depending on the radio waves, a distance of 3.3ft (1m) may not be sufficient to eliminate the noise.
- Dismantling the unit, treatment of the refrigerant, oil and additional parts must be done in accordance with the relevant local, state, and national regulations.
- Only use tools for R32, such as a gauge manifold, charge hose, gas leak detector, reverse flow check valve, refrigerant charge base, vacuum gauge, or refrigerant recovery equipment.
- If the conventional refrigerant and refrigerator oil are mixed in R32, the refrigerant may deteriorate.
- As maximum allowable pressure is 604psi (4.17MPa), the wall thickness of field-installed pipes should be selected in accordance with the relevant local, state, and national regulations.

FTN006(R32)-U

# Accessories

<b>(A)</b> Mounting plate 	1	<b>(B)</b> Mounting plate fixing screw M4 × 1" (M4 × 25mm) 	7	<b>(C)</b> Titanium apatite deodorizing filter 	2 each
<b>(D)</b> Wireless remote controller 	1	<b>(E)</b> Remote controller holder 	1	<b>(F)</b> Remote controller holder fixing screw M3 × 13/16" (M3 × 20mm) 	2
<b>(G)</b> Dry battery AAA. LR03 (alkaline) 	2	<b>(H)</b> Indoor unit fixing screw M4 × 1/2" (M4 × 12mm) 	2	<b>(J)</b> Insulation tape 	1
<b>(K)</b> Operation manual 	1	<b>(L)</b> Installation manual 	1	<b>(M)</b> Warranty 	1
<b>(N)</b> General safety considerations 	1				

## Choosing an Installation Site

- Before choosing the installation site, obtain user approval.

### 1. Indoor unit

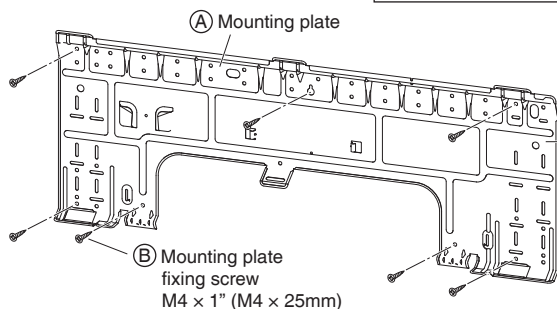
- The indoor unit should be positioned in a place where:
  - the restrictions on the installation requirements specified in “**Indoor Unit Installation Diagram**” on page 4 are met,
  - both the air inlet and air outlet are unobstructed,
  - the unit is not exposed to direct sunlight,
  - drainage occurs easily,
  - the unit is away from sources of heat or steam,
  - there is no source of machine oil vapor (this may shorten the indoor unit service life),
  - cool/warm air is circulated throughout the room,
  - the unit is away from electronic ignition type fluorescent lamps (inverter or rapid start type) as they may affect the remote controller range,
  - the unit is at least 3.3ft (1m) away from any television or radio set (the unit may cause interference with the picture or sound),
  - no laundry equipment is nearby,
  - the signal strength of the router is stable (insufficient signal strength can prevent stable communication).

### 2. Wireless remote controller

- Turn on all the fluorescent lamps in the room, if any, and find a location where the remote controller signals are properly received by the indoor unit (within 23ft (7m)).

# Indoor Unit Installation Diagram

The (A) mounting plate should be installed on a wall which can support the weight of the indoor unit.

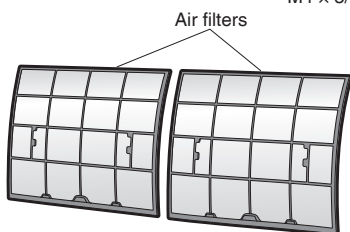
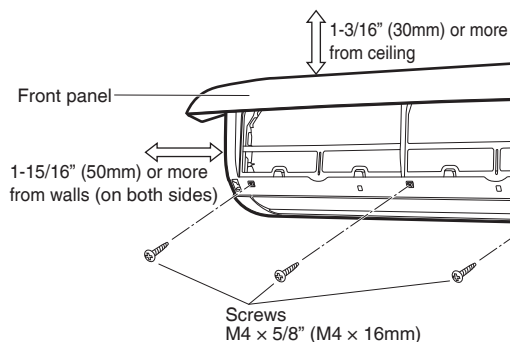
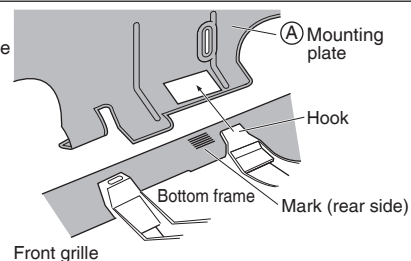


## ■ How to attach the indoor unit

Hook the hooks of the bottom frame to the (A) mounting plate. If the hooks are difficult to hook, remove the front grille.

## ■ How to remove the indoor unit

Push up the marked area (at the lower part of the front grille) to release the hooks. If it is difficult to release, remove the front grille.



Caulk pipe hole gap with putty.

Do not connect commercially available drain hose directly to the indoor unit. (Water leakage may result)

Wrap with the finishing tape so that no gap is left.

Cut thermal insulation pipe to an appropriate length and wrap it with tape, making sure that no gap is left in the insulation pipe's cut line.

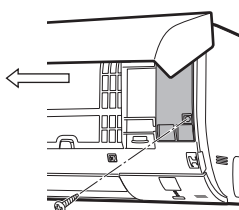
Wrap the insulation pipe with the finishing tape from bottom to top.

## Service lid

The service lid is removable.

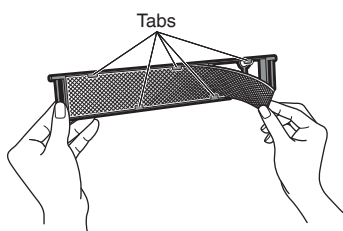
## ■ Opening method

- 1) Remove the service lid screw.
- 2) Pull out the service lid horizontally in the direction of the arrow.
- 3) Pull down.

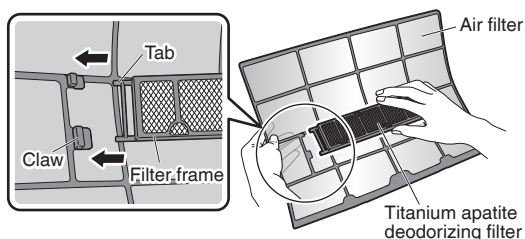


## © Titanium apatite deodorizing filter

- 1) Attach the titanium apatite deodorizing filter to the filter frame.
  - When attaching the filter, check that the filter is properly set in the tabs.
  - The titanium apatite deodorizing filter can be attached in any orientation.



- 2) Set the tabs of the filter frame in the claws of the air filter. (4 places)



Before screwing the (E) remote controller holder to the wall, make sure that control signals are properly received by indoor unit.

(D) Wireless remote controller

(F) Remote controller holder fixing screw  
M3 × 13/16" (M3 × 20mm)

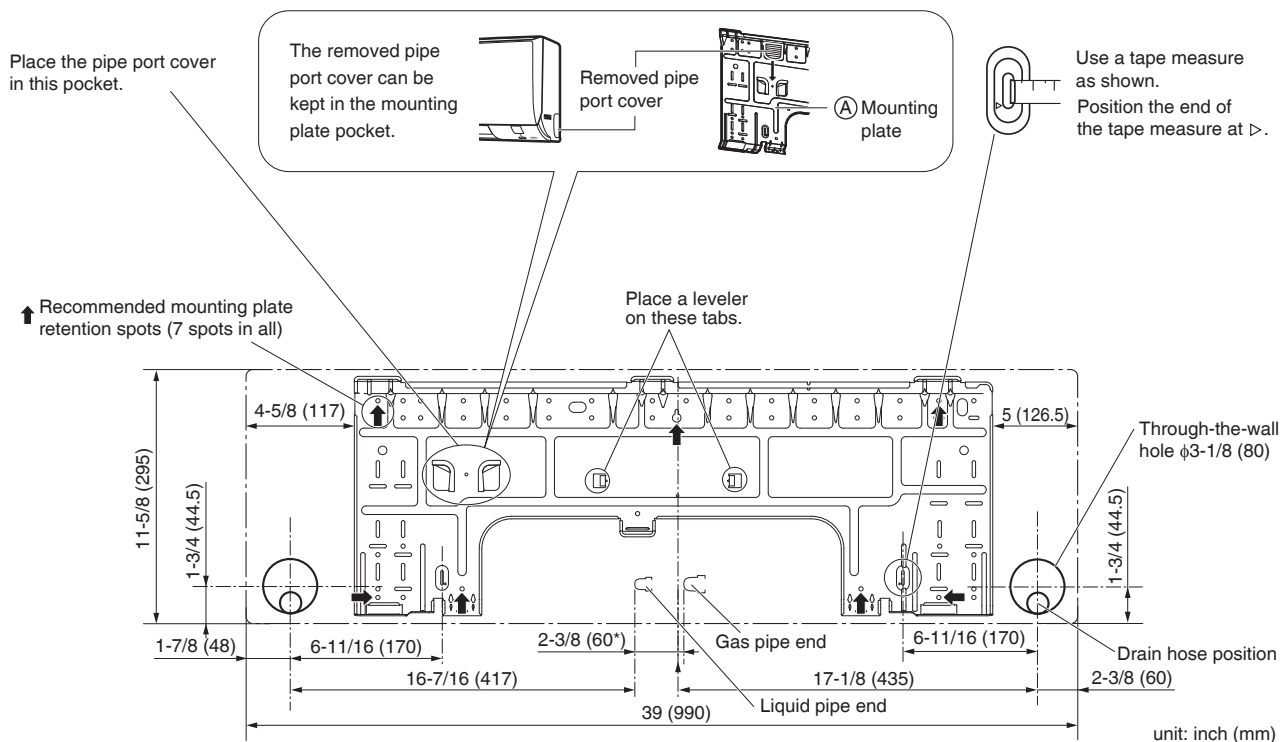
(E) Remote controller holder

# Indoor Unit Installation

## 1. Installing the mounting plate

- The mounting plate should be installed on a wall which can support the weight of the indoor unit.
  - Temporarily secure the mounting plate to the wall, make sure that the panel is completely level, and mark the drilling points on the wall.
  - Secure the mounting plate to the wall with screws.

### Recommended mounting plate retention spots and dimensions



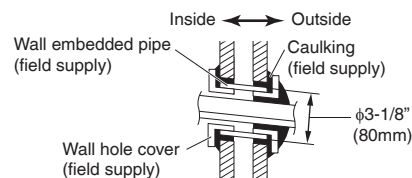
\* Depending on the model, the actual distance between the liquid pipe end and gas pipe end may differ from the distance between those symbols on the mounting plate (the distance listed in this manual).  
Always measure the actual distance between the liquid pipe end and gas pipe end before installing refrigerant pipes.

## 2. Drilling a wall hole and installing wall embedded pipe

### ⚠ WARNING

For metal frame or metal board walls, be sure to use a wall embedded pipe and wall hole cover in the feed-through hole to prevent possible heat, electric shock, or fire.

- Be sure to caulk the gaps around the pipes with caulking material to prevent condensation.
  - Drill a feed-through hole with a  $\phi$ 3-1/8 inch (80mm) diameter through the wall at a downward angle toward the outside.
  - Insert a wall embedded pipe into the hole.
  - Insert a wall hole cover into wall pipe.
  - After completing refrigerant piping, wiring, and drain piping, caulk the pipe hole gap with putty.



Even if a wall hole cover is not used, caulk both the outdoor and indoor sides with putty.



### 3. Installing the indoor unit

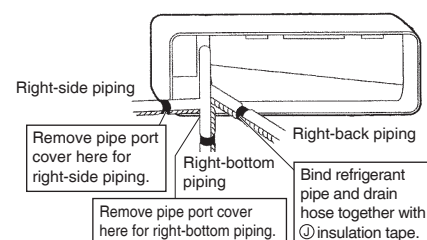
In the case of bending or curing refrigerant pipes, keep the following precautions in mind.

Abnormal sound may be generated if improper work is conducted.

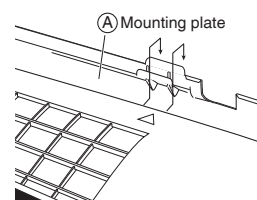
- Do not strongly press the refrigerant pipes onto the bottom frame.
- Do not strongly press the refrigerant pipes on the front grille, either.

#### 3-1. Right-side, right-back, or right-bottom piping

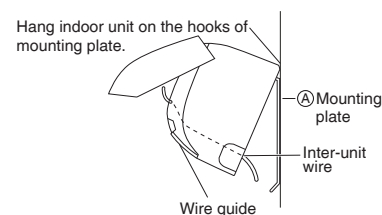
- 1) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape.
- 2) Wrap the refrigerant pipes and drain hose together with ① insulation tape.



- 3) Pass the drain hose and refrigerant pipes through the wall hole, then position the indoor unit on the ① mounting plate hooks by using the △ markings at the top of the indoor unit as a guide.



- 4) Open the front panel (Refer to “Installation Tips” on page 12), then open the service lid (Refer to “Indoor Unit Installation Diagram” on page 4).
- 5) Pass the inter-unit wire from the outdoor unit through the feed-through wall hole and pass to the front of indoor unit from the back. Then pull them at front side. Bend the ends of cable tie wires upward for easier work in advance. (If the interunit wire ends are to be stripped first, bundle wire ends with adhesive tape.)
- 6) Press the bottom frame of the indoor unit with both hands until it is firmly caught by the ① mounting plate hooks. Make sure the wire leads do not catch on the edge of the indoor unit.



#### 3-2. Left-side, left-back, or left-bottom piping

- 1) Switch around the drain plug and drain hose.

#### How to switch around the drain plug and drain hose

**1) Remove the fixing screw and pull out the drain hose.**

① Remove fixing screw.

Drain hose

② Pull out drain hose.

2) Pull out drain plug.

**3) Switch around the drain hose and drain plug.**

Drain plug

Push the drain plug all the way in using a hexagonal wrench (3/16 inch (4mm)).

Hexagonal wrench (3/16 inch (4mm))

No gap

Do not apply lubricating oil (refrigerant oil) to the drain plug when inserting it. The application of lubrication oil to the drain plug will deteriorate the plug to cause drain leakage from the plug.

Insert a hexagonal wrench (3/16 inch (4mm)).

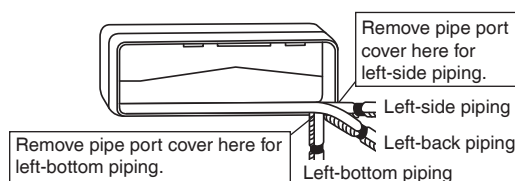
Insert drain hose securely and fix in place with fixing screw.

Fixing screw

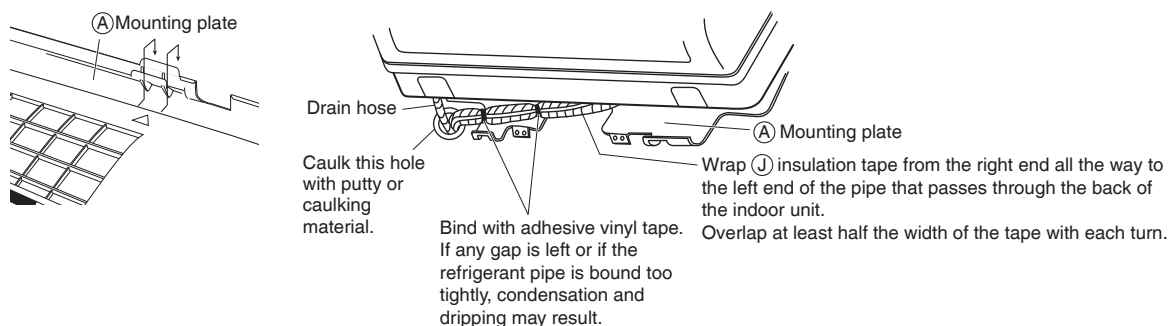
Drain hose

# Indoor Unit Installation

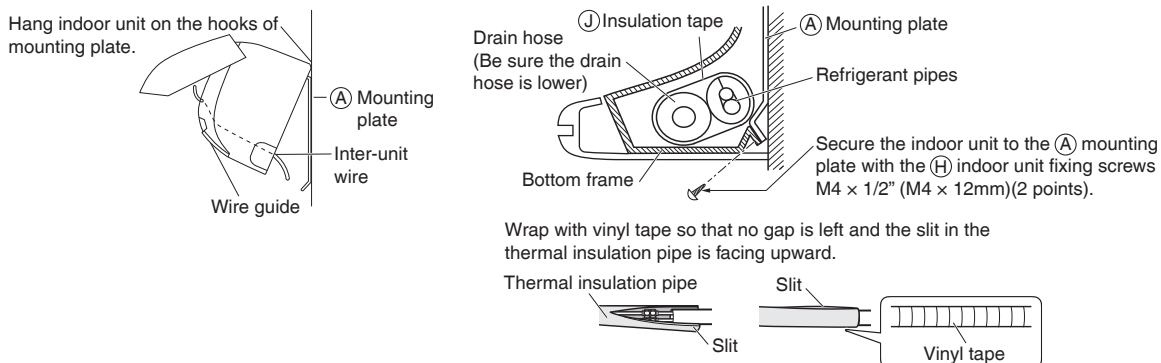
- 2) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape.



- 3) Shape the refrigerant pipes along the pipe path marking on the (A) mounting plate.
- 4) Pass the drain hose and refrigerant pipes through the wall hole, then position the indoor unit on the (A) mounting plate hooks, using the △ markings at the top of the indoor unit as a guide.



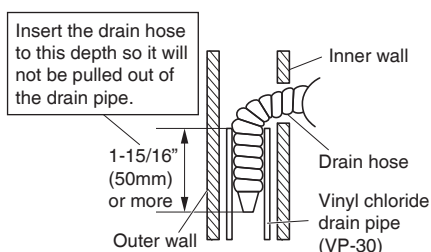
- 5) Open the front panel (Refer to “**Installation Tips**” on page 12), then open the service lid (Refer to “**Indoor Unit Installation Diagram**” on page 4).
- 6) Pass the inter-unit wire from the outdoor unit through the feed-through wall hole and pass to the front of indoor unit from the back. Then pull them at front side. Bend the ends of cable tie wires upward for easier work in advance. (If the interunit wire ends are to be stripped first, bundle wire ends with adhesive tape.)
- 7) Connect the refrigerant pipes.
- 8) In case of pulling the drain hose through the back of the indoor unit, wrap the refrigerant pipes and drain hose together with (J) insulation tape as shown in the figure below.
- 9) Press the bottom frame of the indoor unit with both hands until it is firmly caught by the (A) mounting plate hooks. Make sure that the wires do not catch on the edge of the indoor unit.



## 3-3. Wall embedded piping

Follow the instructions given under left-side, left-back, or left-bottom piping.

- 1) Insert the drain hose to a depth of 1-15/16 inches (50mm) or more so it will not be pulled out of the drain pipe.





## 4. Wiring

Refer to the installation manual for the outdoor unit also.

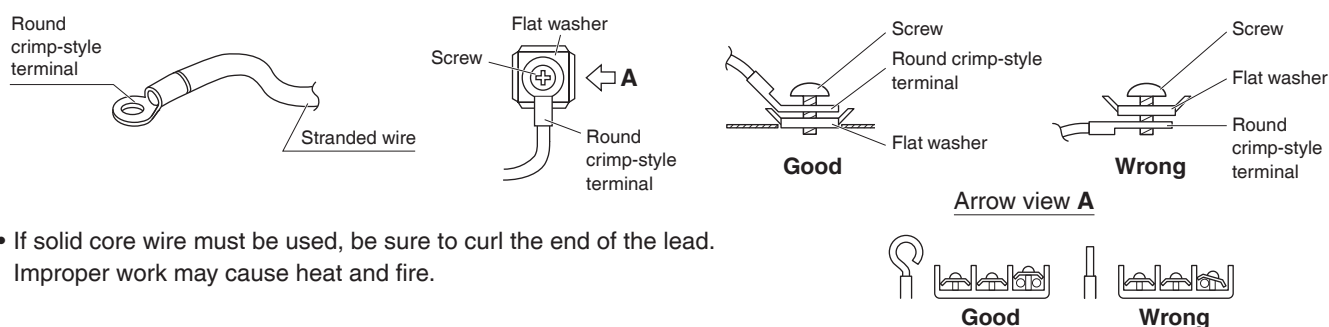
### ⚠ WARNING

- Do not use tapped wires, extension cords, or starburst connections, as they may cause overheating, electric shock, or fire.
- Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.
- Do not connect the power wire to the indoor unit. Doing so may cause electric shock or fire.

### ⚠ CAUTION

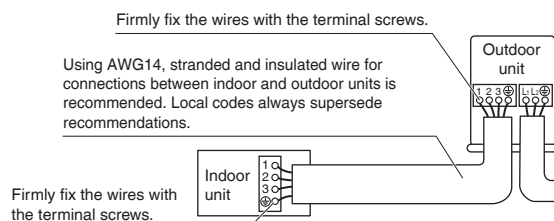
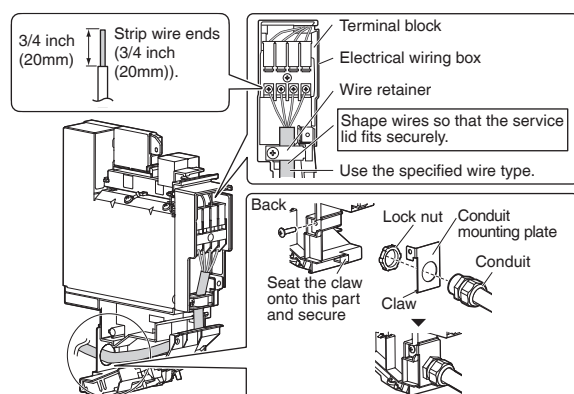
Recommend stranded cable for interunit wiring. Local code always supersedes recommendation.

- For stranded wires, make sure to use the round crimp-style terminal for connection to the power supply terminal block. Place the round crimp-style terminals on the wires up to the covered part and secure in place.



- If solid core wire must be used, be sure to curl the end of the lead. Improper work may cause heat and fire.

- 1) Remove the front grille. (Refer to “2. Removing and installing the front grille” on page 12.)
- 2) Remove the conduit mounting plate and then secure the conduit to the conduit mounting plate with the lock nut, as shown in the illustration.
- 3) Strip wire ends (3/4 inch (20mm)).
- 4) Match wire colors with terminal numbers on the indoor and outdoor unit's terminal blocks and firmly secure the wires in the corresponding terminals with the screws.
- 5) Connect the ground wires to the corresponding terminals.
- 6) Pull the wires lightly to make sure they are securely connected.
- 7) Attach the conduit mounting plate.
- 8) Shape the wires so that the service lid fits securely.
- 9) Attach the front grille. (Refer to “2. Removing and installing the front grille” on page 12.)
- 10) Take care to ensure that all wiring between the indoor unit and the outdoor unit has a consistent connection. Any splices can cause communication errors.

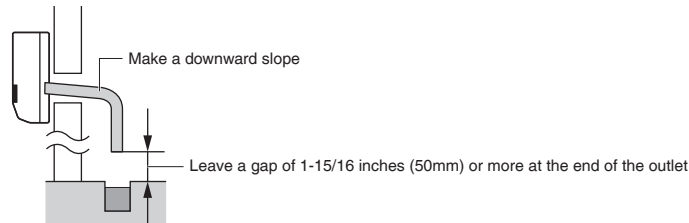


# Indoor Unit Installation

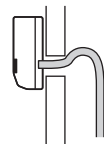
## 5. Drain piping

1) Connect the drain hose, as shown below.

- Avoid placing the end of the drain hose in a drainage location that could cause bad odors or corrosive gas to flow backward into the outlet.
- The drainage water may change color due to bacteria or other organisms. Place in a location where the flow of drainage water will not cause a problem.
- Minimize the number of bends in the drain hose as much as possible.  
If bending the drain hose, bend it gently.

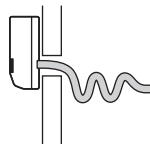


Getting higher



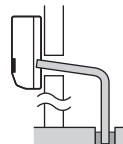
Wrong

Containing waves



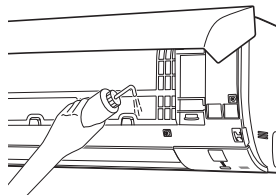
Wrong

With the end of the hose in the drain outlet

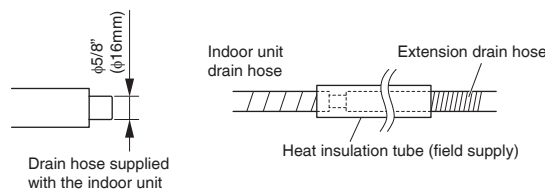


Wrong

- 2) Remove the air filters and transfer some water to the indoor heat exchanger by pouring water into the drain pan.  
3) Make sure that water flows out of the drain hose.



- 4) If drain hose extension or embedded drain piping is required, use appropriate parts that match the hose front end.
- When drain hose requires extension, obtain an extension hose with an inner diameter of 5/8 inch (16mm).  
Be sure to thermally insulate the indoor section of the extension hose.



# Refrigerant Piping Work

## ⚠ WARNING

- Do not apply mineral oil to the flare.
- Prevent mineral oil from getting into the system as this would reduce the service life of the units.
- Never use piping which has been used for previous installations. Only use parts which are delivered with this unit.
- Never install a dryer to this R32 unit in order to guarantee its service life.
- The drying material may dissolve and damage the system.
- Improper flaring may result in refrigerant gas leakage.

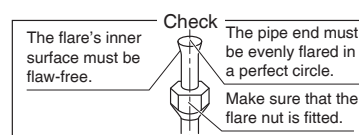
## 1. Flaring the pipe end

- 1) Cut the pipe end with a pipe cutter.
- 2) Remove burrs with the cut surface facing downward, so that the filings do not enter the pipe.



- 3) Put the flare nut on the pipe.
- 4) Flare the pipe.
- 5) Check that the flaring has been done correctly.

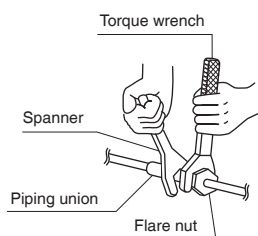
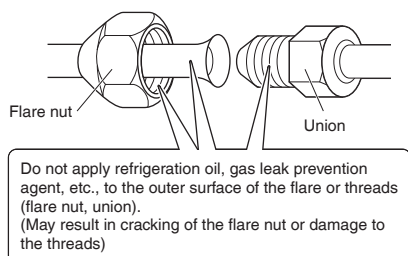
Set exactly at the position shown below.			
Flare tool for R32 or R410A	Conventional flare tool		
	Clutch-type	Clutch-type (Rigid-type)	Wing-nut type (Imperial-type)
A	0-0.020 inch (0-0.5mm)	0.039-0.059 inch (1.0-1.5mm)	0.059-0.079 inch (1.5-2.0mm)



## 2. Refrigerant piping

### ⚠ CAUTION

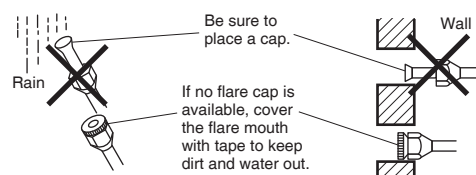
- Use the flare nut fixed to the main unit. (This is to prevent the flare nut from cracking as a result of deterioration over time.)
  - Use a torque wrench when tightening the flare nuts to prevent damage to the flare nuts and gas leakage.
  - Excessive tightening of the flare nut can result in the flare nut cracking in the long term, leading to gas leakage.
- Align the centers of both flares and tighten the flare nuts 3 or 4 turns by hand, then tighten them fully with a spanner and a torque wrench.



	Piping size	Flare nut tightening torque
Gas side	O.D. 1/2 inch (12.7mm)	36-1/2 – 44-1/2 lbf • ft (49.5-60.3 N • m)
	O.D. 5/8 inch (15.9mm)	45-5/8 – 55-5/8 lbf • ft (61.8-75.4 N • m)
Liquid side	O.D. 1/4 inch (6.4mm)	10-1/2 – 12-3/4 lbf • ft (14.2-17.2 N • m)

### Caution on piping handling

- Protect the open end of the pipe against dust and moisture.
- All pipe bends should be as gentle as possible. Use a pipe bender for bending.

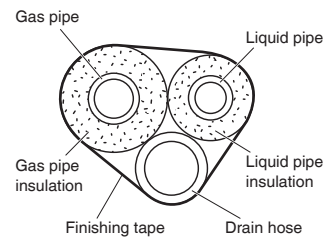


# Refrigerant Piping Work

## Selection of copper and heat insulation materials

When using commercial copper pipes and fittings, observe the following:

- Insulation material: Polyethylene foam  
Heat transfer rate: 0.041 to 0.052W/mK (0.024 to 0.030Btu/ft<sup>h</sup>°F (0.035 to 0.045kcal/mh°C))  
Be sure to use insulation that is designed for use with HVAC Systems.
- ACR Copper only.



- Be sure to insulate both the gas and liquid piping and observe the insulation dimensions as below.

	Piping size	Minimum bend radius	Piping thickness	Thermal insulation size	Thermal insulation thickness
Gas side	O.D. 1/2 inch (12.7mm)	1-9/16 inch (40mm) or more	0.031 inch (0.8mm) (C1220T-O)	I.D. 9/16-5/8 inch (14-16mm)	13/32 inch (10mm) Min.
	O.D. 5/8 inch (15.9mm)	1-15/16 inch (50mm) or more	0.039 inch (1.0mm) (C1220T-O)	I.D. 5/8-13/16 inch (16-20mm)	
Liquid side	O.D. 1/4 inch (6.4mm)	1-3/16 inch (30mm) or more	0.031 inch (0.8mm) (C1220T-O)	I.D. 5/16-13/32 inch (8-10mm)	

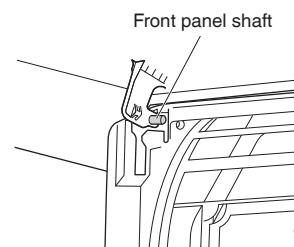
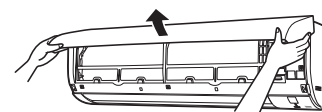
- Use separate thermal insulation pipes for gas and liquid refrigerant pipes.
- Using finishing tape, bundle and wrap the indoor unit piping and drain hose together so that the drain hose is below the other piping.

# Installation Tips

## 1. Removing and installing the front panel

### • Removal method

- 1) Hold the front panel by the sides and pull it open until it stops.
- 2) While pushing the left side front panel shaft outward, push up the front panel and remove it. (Remove the right side front panel shaft in the same manner.)
- 3) After removing both front panel shafts, pull the front panel toward yourself and remove it.



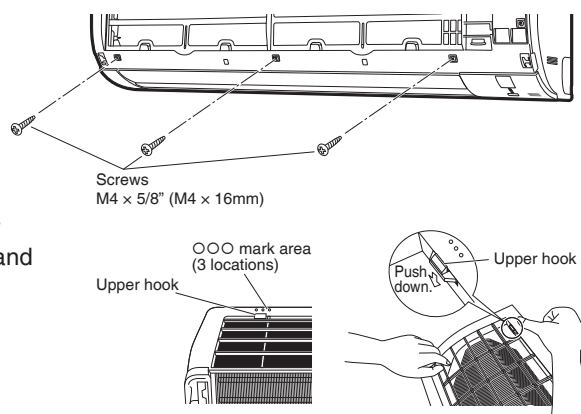
### • Installation method

- Align the front panel shaft of the front panel with the grooves of grille, and push all the way in, then close slowly.  
Push the center of the lower panel surface firmly to engage the tabs.

## 2. Removing and installing the front grille

### • Removal method

- 1) Remove the front panel and air filters.
- 2) Remove the 3 screws from the front grille.
- 3) In front of the ○○○ mark on the front grille, there are 3 upper hooks. Lightly pull the front grille toward you with one hand, and push down on the hooks with the fingers of your other hand.



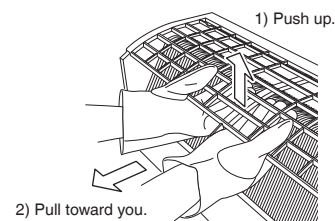
When there is insufficient work space because the unit is close to ceiling



### CAUTION

Be sure to wear protection gloves.

Place both hands under the center of the front grille, and while pushing up, pull it toward you.








### • Installation method

- 1) Install the front grille and firmly engage the upper hooks (3 locations).
- 2) Install 3 screws of the front grille.
- 3) Install the air filters and then mount the front panel.

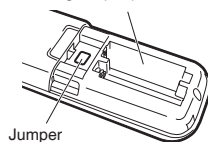
# Installation Tips

## 3. How to set the different addresses

When 2 indoor units are installed in one room, the 2 wireless remote controllers can be set for different addresses. Change the address setting of one of the 2 units. When cutting the jumper, be careful not to damage any of the surrounding parts.


- 1) Remove the battery cover on the remote controller and cut the address jumper.
- 2) Press ,  and  at the same time.
- 3) Press , then select . (The indoor unit OPERATION lamp will blink for about 1 minute.)
- 4) Press the indoor unit ON/OFF switch while the OPERATION lamp is blinking.

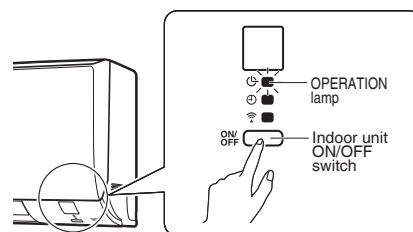
Remove the batteries before cutting the jumper.



	Address	
	1	2
Jumper	EXIST	CUT



- If setting could not be carried out completely while the OPERATION lamp was blinking, carry out the setting process once again from the beginning.
- After setting is complete, pressing  for about 5 seconds will cause the remote controller to return to the previous display.



## 4. Pump down operation

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

For instructions on how to pump down, refer to the installation manual for the outdoor unit to be connected.








### Forced cooling operation

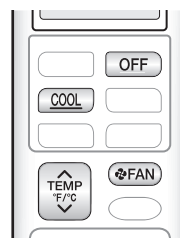
#### ■Using the indoor unit ON/OFF switch

Press the indoor unit ON/OFF switch for at least 5 seconds. (The operation will start.)

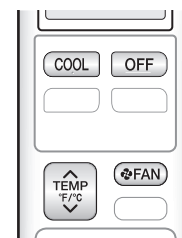
- Forced cooling operation will stop automatically after about 15 minutes.  
To stop the operation, press the indoor unit ON/OFF switch.

#### ■Using the indoor unit's remote controller

- 1) Press ,  and  at the same time.
  - 2) Press , then select .
  - 3) Press  to turn on the system.
- Forced cooling operation will stop automatically after about 30 minutes.  
To stop the operation, press .



HEAT PUMP model



COOLING ONLY model



# Trial Operation and Testing

## 1. Trial operation and testing

- Trial operation should be carried out in either COOL or HEAT operation.

**1-1. Measure the supply voltage and make sure that it is within the specified range.**










**1-2. In COOL operation, select the lowest programmable temperature;  
in HEAT operation, select the highest programmable temperature.**

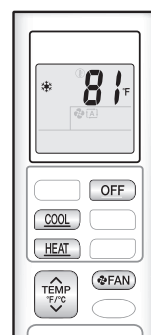
**1-3. Carry out the trial operation following the instructions in the operation manual to ensure that all functions and parts, such as the movement of the flap, are working properly.**

- To protect the air conditioner, restart operation is disabled for 3 minutes after the system has been turned off.

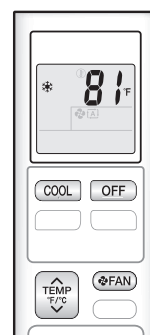
**1-4. After trial operation is complete, set the temperature to a normal level (78°F to 82°F (26°C to 28°C) in COOL operation, 68°F to 75°F (20°C to 24°C) in HEAT operation).**

- When operating the air conditioner in COOL operation in winter, or HEAT operation in summer, set it to the trial operation mode using the following method.

- 1) Press ,  and  at the same time.
  - 2) Press , then select , press .
  - 3) Press  or  to turn on the system.
- Trial operation will stop automatically after about 30 minutes. To stop the operation, press .
  - Some of the functions cannot be used in the trial operation mode.



HEAT PUMP model



COOLING ONLY model

- The air conditioner draws a small amount of power in its standby mode. If the system is not to be used for some time after installation, shut off the circuit breaker to eliminate unnecessary power consumption.
- If the circuit breaker trips to shut off the power to the air conditioner, the system will restore the original operation mode when the circuit breaker is turned on again.

## 2. Test items

Test items	Symptom	Check
Indoor and outdoor units are installed securely.	Fall, vibration, noise	
No refrigerant gas leaks.	Incomplete cooling/heating function	
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated.	Water leakage	
Draining line is properly installed.	Water leakage	
System is properly grounded.	Electrical leakage	
Only specified wires are used for all wiring, and all wires are connected correctly.	No operation or burn damage	
Indoor or outdoor unit's air inlet or air outlet are unobstructed.	Incomplete cooling/heating function	
Stop valves are opened.	Incomplete cooling/heating function	
Indoor unit properly receives remote control commands.	No operation	
Explain to the user that when using a smartphone for operation, it is necessary to prepare a repeater, or similar device, if the signal from the wireless LAN router is weak near the air conditioner.	Air conditioner not responding to smartphone	



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The two-dimensional bar code  
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