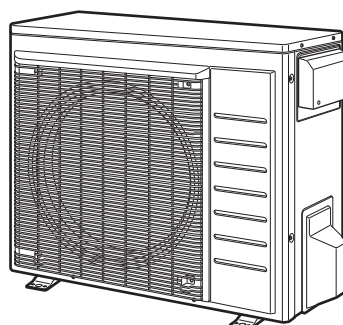
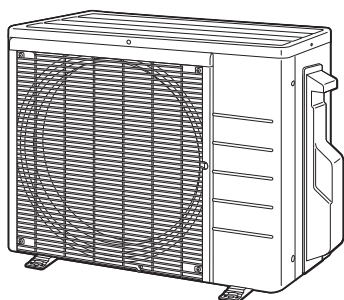




DAIKIN ROOM AIR CONDITIONER INSTALLATION MANUAL

R32 Split Series



MODELS

RXT09*	RXTH09*	RXP09*	RXV09*	RXF09*	RKV30*	RKF09*
RXT12*	RXTH12*	RXP12*	RXV12*	RXF12*	RKV36*	RKF12*
RXT15*	RXTH15*	RXP15*	RXV15*	RXF18*		RKF18*
RXT18*	RXTH18*	RXP18*	RXV18*	RXF24*		RKF24*
RXT24*	RXTH24*	RXP24*	RXV30*			
			RXV36*			

*Followed by alphanumeric characters.

Product information, manuals, etc.,
are available from the link below.

Web site: <https://daikinac.com/>



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The pictures in this document are for illustrative purposes only.

QUEBEC DISCLOSURE REGARDING AVAILABILITY OF REPLACEMENT PARTS, REPAIR SERVICES AND INFORMATION FOR MAINTENANCE AND REPAIR: Daikin Comfort Technologies Manufacturing, Inc. (Daikin) does not guarantee the availability of (1) replacement parts; (2) repair services; and (3) information necessary to maintain or repair products, within the meaning of section 39.1 of the *Consumer Protection Act*, CQLR, c P-40.1 and section 79.18 of the *Regulation respecting the application of the Consumer Protection Act*, CQLR, c P-40.1, r. 3.

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Safety Considerations

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

	Read the precautions in this manual carefully before operating the unit.
 Refrigerant Safety Group A2L	This appliance is filled with R32.

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.

WARNING

Only personnel that have been trained to install, adjust, service, maintenance or repair (hereinafter, "service") the equipment specified in this manual should service the equipment. This equipment is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the equipment. The manufacturer will not be responsible for any injury or property damage arising from improper supervision, service or service procedures. If you service this unit, you assume responsibility for any injury or property damage which may result. In addition, in jurisdictions that require one or more licenses to service the equipment specified in this manual, only licensed personnel should service the equipment. Improper supervision, installation, adjustment, servicing, maintenance or repair of the equipment specified in this manual, or attempting to install, adjust, service or repair the equipment specified in this manual without proper supervision or training may result in product damage, property damage, personal injury or death.

WARNING

Do not bypass safety devices.

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

- During installation, attach the refrigerant piping securely before operating the compressor. If the refrigerant pipes are not attached and the stop valve is open when the compressor is operated, air will be sucked in, causing abnormal pressure in the refrigeration cycle, which may result in equipment damage and even injury.
- During pump down, stop the compressor before removing the refrigerant piping. If the compressor is still operating and the stop valve is open during pump down, air will be sucked in when the refrigerant piping is removed, causing abnormal pressure in the refrigeration cycle, which may result in equipment damage and even injury.
- 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.

Safety Considerations

- 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.
- The unit must have an uninterrupted, unbroken electrical ground to minimize the possibility of personal injury if an electrical fault should occur.
The electrical ground circuit may consist of an appropriately sized electrical wire connecting the ground lug in the unit and control box wire to the building's electrical service panel.
Other methods of grounding are permitted if performed in accordance with the "National Electrical Code" (NEC)/ "American National Standards Institute" (ANSI)/ "National Fire Protection Association" (NFPA) 70 and local/state codes.
In CANADA, electrical grounding is to be in accordance with the Canadian Electrical Code CSA C22.1.
Failure to observe this warning can result in electrical shock that can cause personal injury or death.
- 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.
- When wiring, position the wires so that the protection plate can be securely fastened. Improper positioning of the protection plate 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.
- Securely fasten the outdoor unit protection plate. If the protection plate 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.

CAUTION

- While following the instructions in this installation manual, install drain piping to ensure proper drainage and insulate the piping to prevent condensation. Improper drain piping may result in indoor water leakage and property damage.
- The refrigerant circuit temperature will be high, therefore the inter-unit wires must be kept away from copper pipes that are not thermally insulated.
- 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.
- 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* and follow the procedures.
- The outdoor unit is for R32. See the catalog for indoor models that can be connected. Normal operation is not possible when connected to non-compatible indoor 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.

NOTE

- The outdoor unit should be positioned where the unit and power supply wires (breaker panel to outdoor unit) are at least 10 ft (3 m) away from any televisions or radios. (The unit may cause interference with the picture or sound.) Depending on the radio waves, a distance of 10 ft (3 m) 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 or R410A, 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.
- This air conditioner or heat pump is an appliance that should not be accessible to the general public.
- As maximum allowable pressure is 604 psi (4.17 MPa), the wall thickness of field-installed pipes should be selected in accordance with the relevant local, state, and national regulations.

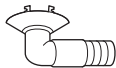
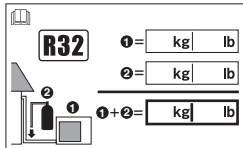
MRN009(R32)-U

Codes and Regulations

The manufacturer assumes no responsibility for equipment installed in violation of any codes or regulations. Rated performance is achieved after 20 hours of operation.

Rated performance is delivered at the specified airflow.

Accessories

Ⓐ Installation manual		1	Ⓑ Drain socket** ¹  This is at the bottom of the packaging.		1
Ⓒ Drain cap (1)** ¹ 	RXT09/12 RXTH09/12 RXP09/12 RXV09/12 RXF09/12	4	Ⓓ Drain cap (2)** ¹ 	RXT09/12 RXTH09/12 RXP09/12 RXV09/12 RXF09/12	2
	RXT15/18/24 RXTH15/18/24 RXP15/18/24 RXV15/18/30/36 RXF18/24	6		RXT15/18/24 RXTH15/18/24 RXP15/18/24 RXV15/18/30/36 RXF18/24	3
Ⓔ Warranty card		1	Ⓕ Refrigerant charge label  Affix near the manufacturer's label.		1

*1 Only for heat pump models

Precautions for Selecting a Location

- 1) Choose a place solid enough to bear the weight and vibration of the unit, where the operating sound will not be amplified.
- 2) Choose a location where the air discharged from the unit or the operating sound will not cause a nuisance to the neighbors of the user.
- 3) Avoid locations, such as near bedrooms, where the operating sound may cause disturbance.
- 4) There must be sufficient space to carry the unit into and out of the site.
- 5) There must be sufficient space for air passage and no obstructions around the air inlet and the air outlet.
- 6) In coastal areas or other places with a salty atmosphere or one containing sulfate gas, corrosion may shorten the life of the air conditioner.
- 7) Since water will flow from the drain of the outdoor unit, do not place anything under the unit which must be kept away from moisture.
- 8) A location where flammable gas does not leak. Position at least 6-5/8 ft (2 m) from propane gas cylinders.

NOTE

Cannot be installed suspended from a ceiling or stacked.

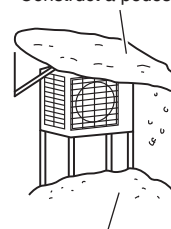
⚠ CAUTION

When operating the air conditioner in a low outdoor ambient temperature, be sure to follow the instructions described below.

- To prevent exposure to wind, install the outdoor unit with its suction side facing the wall.
- Never install the outdoor unit at a site where the suction side may be exposed directly to wind.
- To prevent exposure to wind, it is recommended to install a baffle plate on the air discharge side of the outdoor unit.
- In heavy snow areas, select an installation site where the snow will not affect the unit.
- If there is a likelihood of snow accumulating on the outdoor unit, attach a snow protection hood (sold separately).
- In high humidity areas or heavy snow areas, it is recommended to attach a drain pan heater (sold separately) to prevent ice build-up from the bottom frame.**²

*2 Drain pan heater is included in RXTH models.

- Construct a large canopy.
- Construct a pedestal.



Install the unit high enough off the ground to prevent burying in snow.

Outdoor Unit Installation Diagram

	RXT09, RXT12, RXTH09, RXTH12, RXP09, RXP12, RXV09, RXV12, RXF09, RXF12, RKF09, RKF12	RXT15, RXT18, RXTH15, RXTH18, RXP15, RXP18, RXV15, RXV18, RXF18, RKF18	RXT24, RXTH24, RXP24, RXV30, RXV36, RXF24, RKV30, RKV36, RKF24
	Max. allowable piping length	65-5/8 ft (20 m)	98-1/2 ft (30 m)
**	Min. allowable piping length	10 ft (3 m)	
	Max. allowable piping height	49-1/4 ft (15 m)	65-5/8 ft (20 m)
*	Additional refrigerant required for refrigerant pipe exceeding 49-1/4 ft (15 m) in length.	0.22 oz/ft (20 g/m)	
	Gas pipe	O.D. 3/8 inch (9.5 mm)	O.D. 1/2 inch (12.7 mm)
	Liquid pipe	O.D. 5/8 inch (15.9 mm)	
		O.D. 1/4 inch (6.4 mm)	

Refrigerant piping must be kept to a minimum.

*Be sure to add the proper amount of additional refrigerant.

Failure to do so may result in reduced performance.

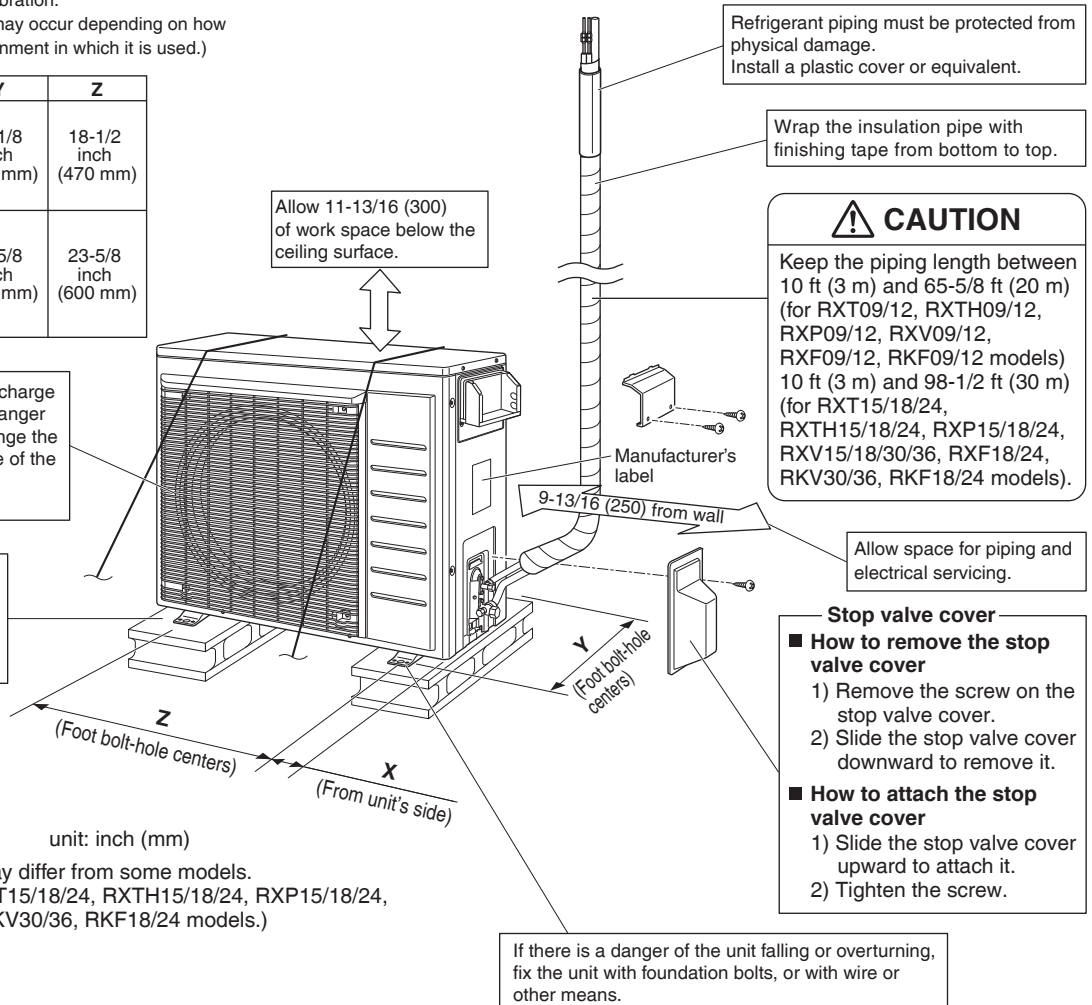
**The suggested shortest pipe length is 10 ft (3 m), in order to avoid noise from the outdoor unit and vibration.

(Mechanical noise and vibration may occur depending on how the unit is installed and the environment in which it is used.)

	X	Y	Z
RXT09/12 RXTH09/12 RXP09/12 RXV09/12 RXF09/12 RKF09/12	3-13/16 inch (97 mm)	12-1/8 inch (308 mm)	18-1/2 inch (470 mm)
RXT15/18/24 RXTH15/18/24 RXP15/18/24 RXV15/18/30/36 RXF18/24 RKF30/36 RKF18/24	4-15/16 inch (125 mm)	13-5/8 inch (346 mm)	23-5/8 inch (600 mm)

If strong wind blows into the air discharge side from the front and there is a danger that the fan may be damaged, change the orientation of the air discharge side of the outdoor unit or use an air direction adjustment grille (sold separately).

In sites with poor drainage, use block bases for the outdoor unit. Adjust foot height until the unit is level. Otherwise, water leakage or pooling of water may occur.



Refrigerant charge label

Please fill in with indelible ink,

1 the factory refrigerant charge of the product,

2 the additional refrigerant amount charged in the field and

1 + 2 the total refrigerant charge on the refrigerant charge label.

Affix the refrigerant charge label near the manufacturer's label after filling it out.

The form is for R32 refrigerant. It includes fields for:

- 1 = kg | lb (factory refrigerant charge)
- 2 = kg | lb (additional refrigerant amount charged in the field)
- 1 + 2 = kg | lb (total refrigerant charge)

There are also checkboxes for:

- 4 outdoor unit
- 5 refrigerant cylinder and manifold for charging

- factory refrigerant charge of the product: see unit manufacturer's label
- additional refrigerant amount charged in the field
- total refrigerant charge
- outdoor unit
- refrigerant cylinder and manifold for charging

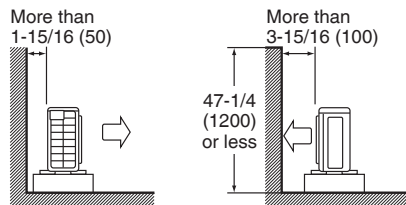
The minimum required floor area of the room where the indoor unit is installed varies depending on the installation height and refrigerant amount. For details, refer to the General Safety Considerations supplied with the indoor unit.

Installation Space Requirements

- Position the unit on a horizontal surface. Any tilt in the unit should be 3° or less to the horizontal.
- Where a wall or other obstacle is in the path of the outdoor unit's intake or exhaust airflow, follow the installation space requirements below.
- For any of the below installation patterns, the wall height on the outlet side should be 47-1/4 inch (1200 mm) or less.
- Secure as much installation space around the unit as the location allows, as more space will result in more efficient operation.

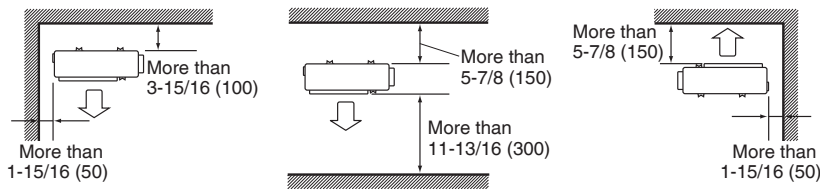
RXT09/12, RXTH09/12, RXP09/12, RXV09/12, RXF09/12, RKF09/12

Wall facing one side



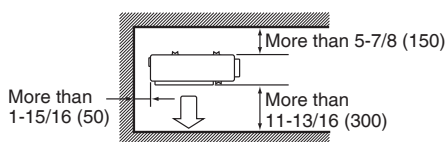
Side view

Walls facing two sides



Top view

Walls facing three sides



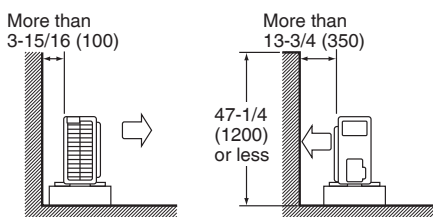
Top view

unit: inch (mm)

When installed as in the figure on the left, it is recommended to either change the orientation of the outdoor unit outlet side or use the air direction adjustment grille (sold separately).

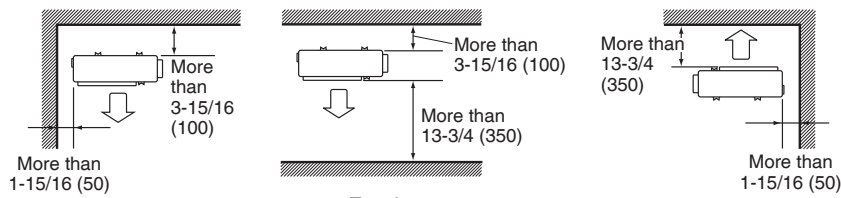
RXT15/18/24, RXTH15/18/24, RXP15/18/24, RXV15/18/30/36, RXF18/24, RKV30/36, RKF18/24

Wall facing one side



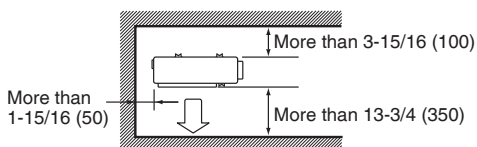
Side view

Walls facing two sides



Top view

Walls facing three sides



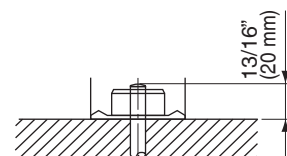
Top view

unit: inch (mm)

When installed as in the figure on the left, it is recommended to either change the orientation of the outdoor unit outlet side or use the air direction adjustment grille (sold separately).

Precautions on Installation

- Check the strength and level of the installation surface so that the unit does not cause any operating vibrations or noise after installation.
- Fix the unit in place securely using foundation bolts, as in the figure. (Prepare 4 sets of 5/16 inch (M8) or 3/8 inch (M10) foundation bolts, nuts and washers.)
- It is best to screw in the foundation bolts until their ends are 13/16 inch (20 mm) from the foundation surface.



Outdoor Unit Installation

1. Installing the outdoor unit

- When installing the outdoor unit, refer to “Precautions for Selecting a Location” on page 5 and “Outdoor Unit Installation Diagram” on page 6.
- If drain work is necessary, follow the procedures below.

2. Drain work (Only for heat pump models)

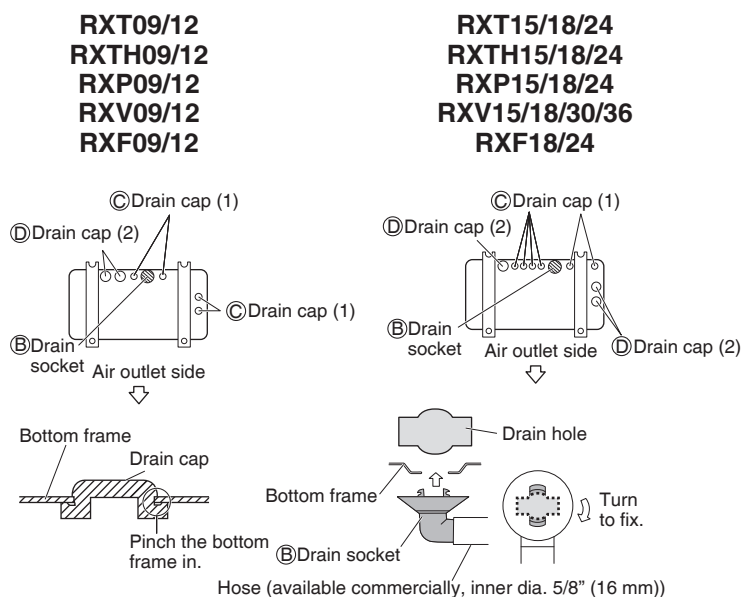
- Only perform drain work if it is necessary.

CAUTION

- In cold areas, do not use a drain socket, drain caps (1, 2) and a drain hose with the outdoor unit. (Drain water may freeze, impairing heating performance.)

- If the drain port is covered by a mounting base or floor surface, place additional foot bases of at least 1-1/4 inch (30 mm) in height under the outdoor unit's feet.

- Attach ③ Drain cap (1) and ④ Drain cap (2).
- Attach ⑤ Drain socket to the shape of drain hole and fix it by turning.
 - When attaching ⑤ Drain socket to the bottom frame, make sure to connect the drain hose to the drain socket first.



3. Flaring the pipe end

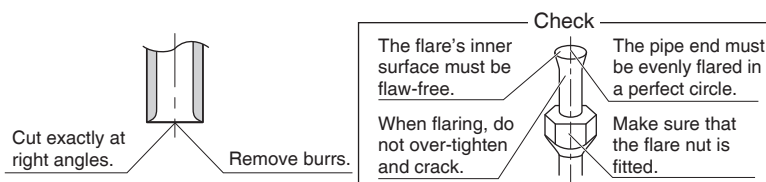
WARNING

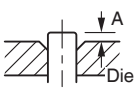
- Do not apply mineral oil to the flare.
- Prevent mineral oil from getting into the system as this would reduce the service life of the units.
- Never use piping which has been used for previous installations. Only use parts which are delivered with this unit.
- Never install a dryer to this R32 unit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

CAUTION

- Do not reuse joints which have been used once already.

- Cut the pipe end with a pipe cutter.
- Remove burrs with the cut surface facing downward, so that the filings do not enter the pipe.
- Put the flare nut on the pipe.
- Flare the pipe.
- Check that the flaring has been done correctly.



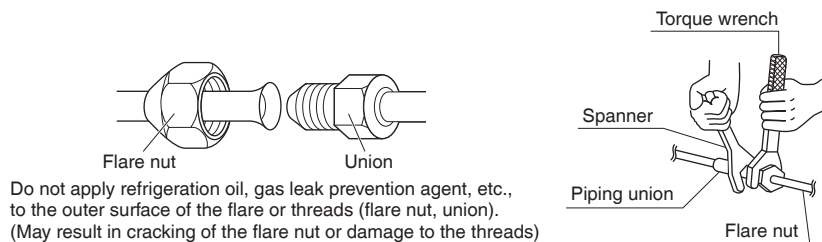
Flaring			
Set exactly at the position shown below.			
	Flare tool for R32 or R410A	Conventional flare tool	
	Clutch-type	Clutch-type (Rigid-type)	Wing-nut type (Imperial-type)
A	0-0.020 inch (0-0.5 mm)	0.039-0.059 inch (1.0-1.5 mm)	0.059-0.079 inch (1.5-2.0 mm)

Outdoor Unit Installation

4. 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.
-
- For refrigerant pipe connections, align the center of the flare and the union, tighten the flare nut 3 to 4 turns by hand, and then use a torque wrench and a spanner to firmly tighten to the specified torque.



Tightening torque

Piping connection

Flare nut			
Gas side			Liquid side
3/8 inch (9.5 mm)	1/2 inch (12.7 mm)	5/8 inch (15.9 mm)	1/4 inch (6.4 mm)
24-1/8–29-3/8 lbf • ft (32.7-39.9N • m)	36-1/2–44-1/2 lbf • ft (49.5-60.3N • m)	45-5/8–55-5/8 lbf • ft (61.8-75.4N • m)	10-1/2–12-5/8 lbf • ft (14.2-17.2N • m)

Service port cap

7-7/8–10-7/8 lbf • ft
(10.7-14.7N • m)

Valve cap

Width across flats			
11/16 inch (17 mm)	3/4 inch (19 mm)	7/8 inch (22 mm)	1 inch (26 mm)
10-1/2–12-5/8 lbf • ft (14.2-17.2N • m)	12-5/8–15-3/8 lbf • ft (17.1-20.9N • m)	16-1/4–19-7/8 lbf • ft (22.1-26.9N • m)	23-1/4–28-3/8 lbf • ft (31.5-38.5N • m)

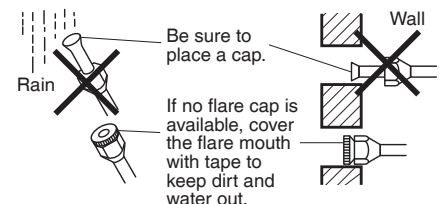
Cautions on pipe handling

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

Selection of copper and heat insulation materials

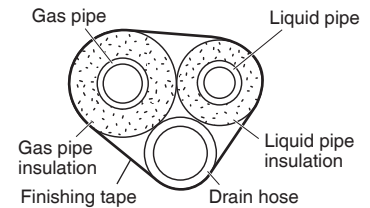
When using commercial copper pipes and fittings, observe the following:

- Insulation material: Polyethylene foam
Heat transfer rate: 0.041 to 0.052 W/mK (0.024 to 0.030 Btu/fth°F) (0.035 to 0.045 kcal/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. 3/8 inch (9.5 mm)	1-3/16 inch (30 mm) or more	0.031 inch (0.8 mm) (C1220T-O)	I.D. 15/32-19/32 inch (12-15 mm)	13/32 inch (10 mm) Min.
	O.D. 1/2 inch (12.7 mm)	1-9/16 inch (40 mm) or more	0.031 inch (0.8 mm) (C1220T-O)	I.D. 9/16-5/8 inch (14-16 mm)	
	O.D. 5/8 inch (15.9 mm)	1-15/16 inch (50 mm) or more	0.039 inch (1.0 mm) (C1220T-O)	I.D. 5/8-13/16 inch (16-20 mm)	
Liquid side	O.D. 1/4 inch (6.4 mm)	1-3/16 inch (30 mm) or more	0.031 inch (0.8 mm) (C1220T-O)	I.D. 5/16-13/32 inch (8-10 mm)	

- 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.



5. Pressure test and evacuating system

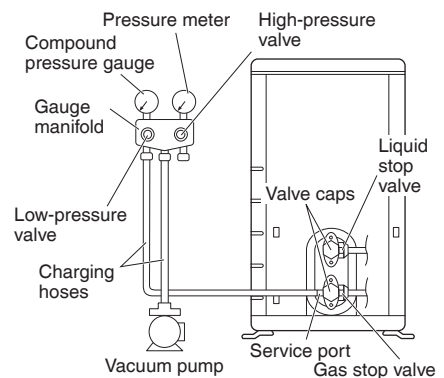
⚠ WARNING

- Make sure that air or any matter other than refrigerant (R32) does not get into the refrigeration cycle.
- If refrigerant gas leaks should occur, ventilate the room as soon and as much as possible.
- R32, as well as other refrigerants, should always be recovered and never be released directly into the environment.
- **Use tools for R32 or R410A (such as the gauge manifold, charging hose, or vacuum pump adapter).**

⚠ CAUTION

Do not open/close the stop valves when the outdoor temperature is -5°F (-21°C) or less, as this may result in refrigerant leakage.

- When piping work is complete, it is necessary to perform a pressure test and evacuate system with a vacuum pump.
- If using additional refrigerant, purge the air from the refrigerant pipes and indoor unit using a vacuum pump, then charge additional refrigerant.
- Use a hexagonal wrench (3/16 inch (4 mm)) to operate the stop valve rod.
- All refrigerant pipe joints should be tightened with a torque wrench to the specified tightening torque.



- 1) Pressurize the liquid pipe and gas pipe from the service port of gas stop valve to 604 psi (4.17 MPa) (do not pressurize more than 604 psi (4.17 MPa)) for 1 hour minimum, 24 hours recommended. If there is a pressure drop, check for leaks, make repairs and perform the pressure test again.
- 2) Connect the gauge manifold's charging hose to the gas stop valve's service port.
- 3) Fully open the low-pressure valve (Lo) on the gauge manifold and fully close the high-pressure valve (Hi). (High-pressure valve will require no further operation.)
- 4) Evacuate system using vacuum pump to below 500 microns for 1 hour minimum.
- 5) Close the low-pressure valve (Lo) on the gauge manifold and stop vacuum pumping. (Maintain this condition for a few minutes to make sure that the compound pressure gauge pointer does not swing back.)*¹
- 6) Remove the valve caps from the liquid stop valve and gas stop valve.
- 7) To open the liquid stop valve, turn the rod of the valve 90° counter-clockwise using a hexagonal wrench. Close it after 5 seconds, and check for gas leakage. Using soapy water, check for gas leakage from the indoor unit's flare and outdoor unit's flare and valve rods. After the check is complete, wipe all soapy water off*².
- 8) Disconnect the charging hoses from the service port for the gas stop valve, then fully open the liquid and gas stop valves. (Do not attempt to turn the valve rods further than they can go.)
- 9) Tighten the valve caps and service port caps for the liquid and gas stop valves with a torque wrench to the specified torques. Refer to "4. Refrigerant piping" on page 9 for details.

*¹ If the compound pressure gauge pointer swings back, the refrigerant pipes may contain water or there may be a loose pipe joint. Check all pipe joints and retighten nuts as needed, then repeat steps 3) through 5).

*² **Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks.**

A halide torch (or any other detector using a naked flame) shall not be used.

Do not use substances containing chlorine and electronic leak detection for gas leak detection.

Wiring

⚠ WARNING

• RISK OF ELECTRIC SHOCK CAUSE INJURY OR DEATH.

- System contains oversize protective earthing (grounding) terminal which shall be properly connected.
- 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.
- 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.
- The circuit must be protected with safety devices in accordance with local and national codes, i.e. a circuit breaker.
- Use an all-pole disconnection type circuit breaker with at least 1/8 inch (3 mm) between the contact point gaps.
- When carrying out wiring, take care not to pull at the conduit.
- Do not connect the power wire to the indoor unit. Doing so may cause electric shock or fire.
- Do not turn on the circuit breaker until all work is completed.

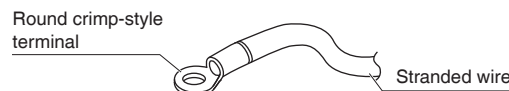
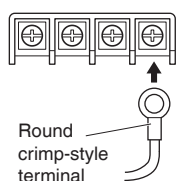
⚠ CAUTION

Precautions to be taken for wiring

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

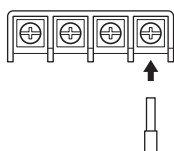
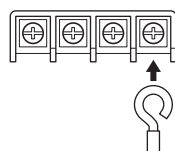
- For stranded wires, make sure to use the round crimp-style terminal. Place the round crimp-style terminals on the wires up to the covered part and secure in place.

1) Use the following method when installing a round crimp-style terminal.

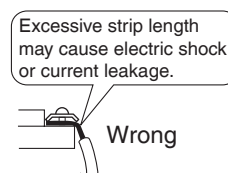
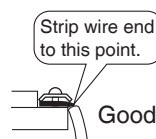


2) Use the following method when installing a solid core wire.

Make sure to curl the end of the lead. Improper work may cause heat and fire.



Stripping wire at terminal block



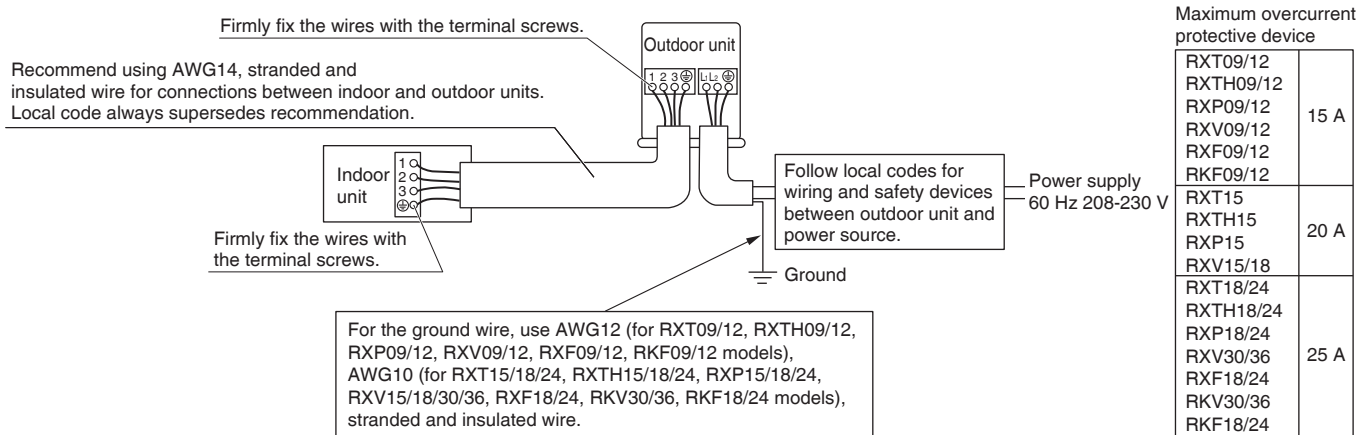
[Wiring procedure]

RXT09/12, RXTH09/12, RXP09/12, RXV09/12, RXF09/12, RKF09/12

- 1) Strip the insulation from the wire (13/16 inch (20 mm)).
- 2) Connect the inter-unit wires between the indoor and outdoor units so that the terminal numbers match. Tighten the terminal screws securely. It is recommended that a slot-head screwdriver be used to tighten the screws.
- 3) Pull the wire lightly to make sure that it does not disconnect.
- 4) After completing the work, reattach the conduit mounting cover, the protection plate, and the stop valve cover to its original position.

RXT15/18/24, RXTH15/18/24, RXP15/18/24, RXV15/18/30/36, RXF18/24, RKV30/36, RKF18/24

- 1) Strip the insulation from the wire (13/16 inch (20 mm)).
- 2) Connect the inter-unit wires between the indoor and outdoor units so that the terminal numbers match. Tighten the terminal screws securely. It is recommended that a slot-head screwdriver be used to tighten the screws.
- 3) Pull the wire lightly to make sure that it does not disconnect.
- 4) Pass the wiring through the cutout on the bottom of the protection plate and attach the protection plate.
- 5) After completing the work, reattach the service lid to its original position.



Ground

This air conditioner must be grounded. For grounding, follow all local, and state electrical codes.

NOTE

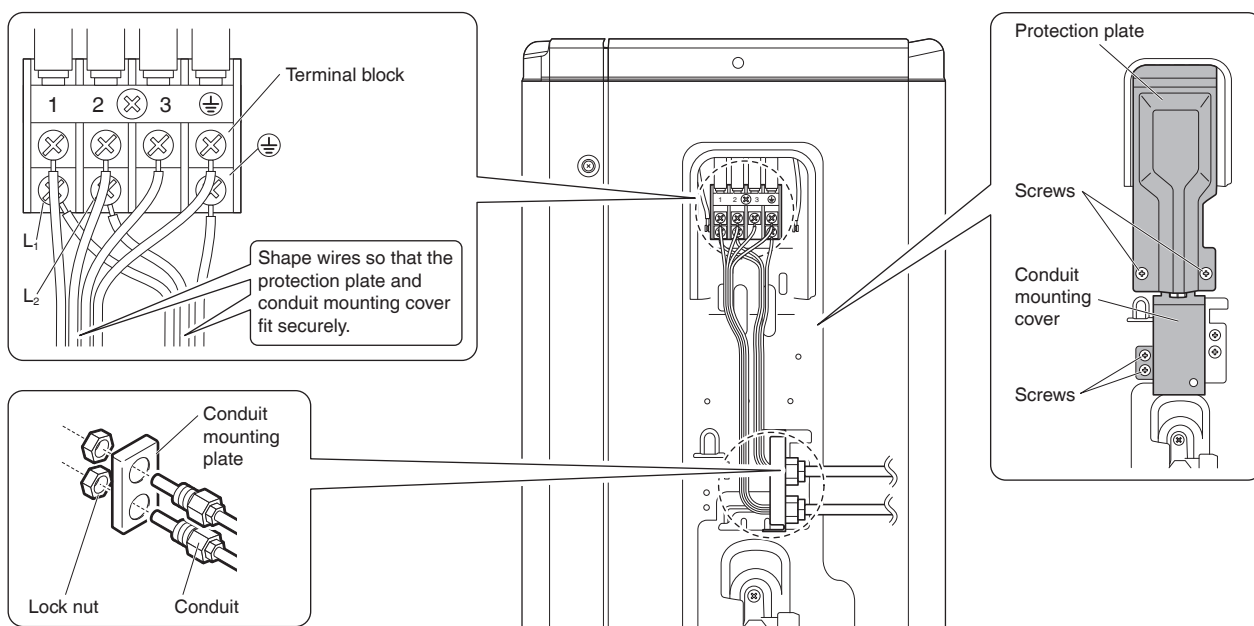
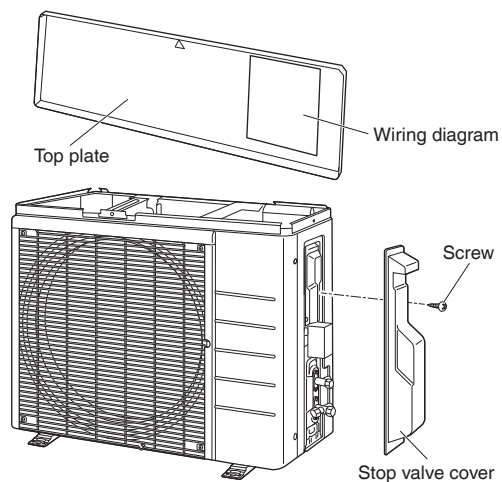
Take care to ensure that all wiring between indoor unit and outdoor unit has a consistent connection. Any splices can cause communication errors.

Wiring

[Method of mounting conduit]

RXT09/12, RXTH09/12, RXP09/12, RXV09/12, RXF09/12, RKF09/12

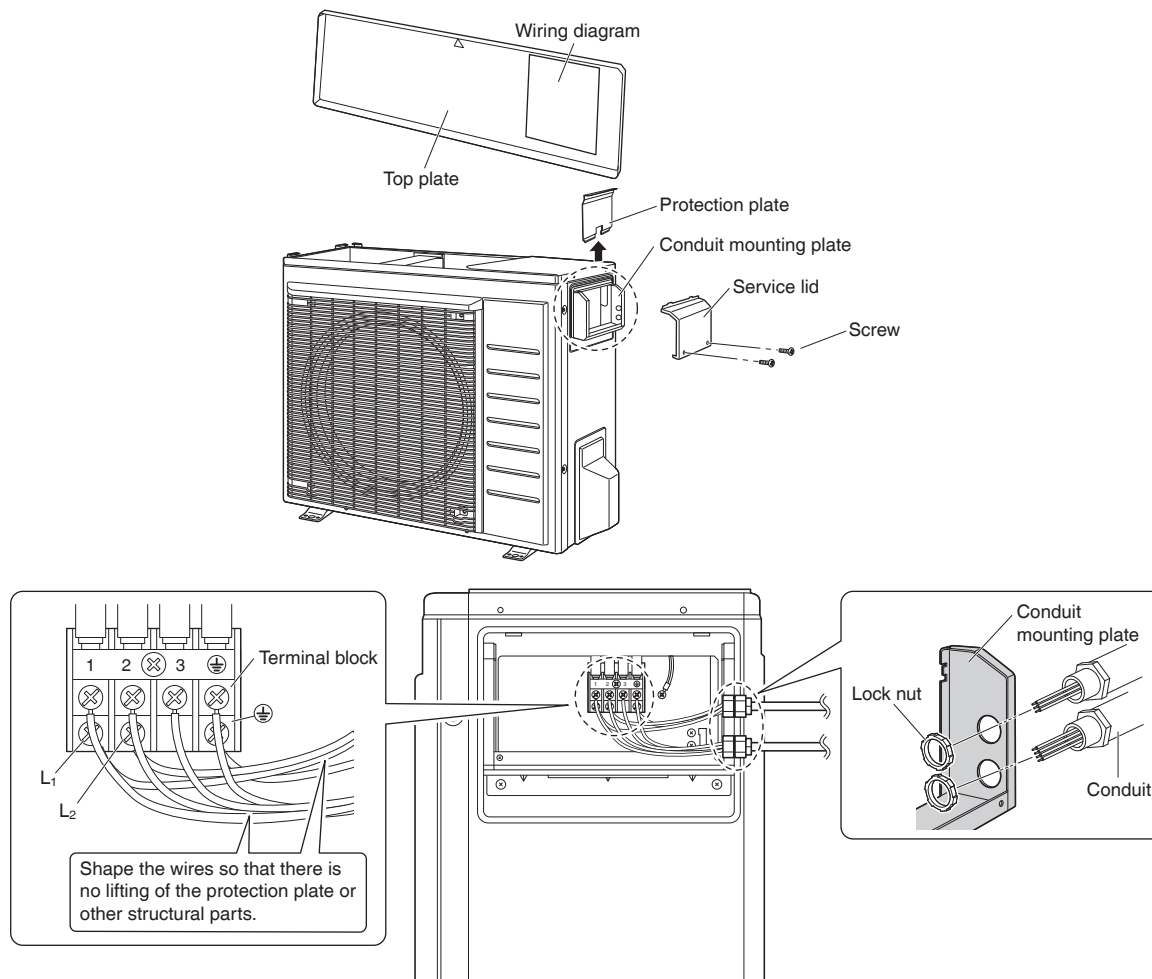
- When wiring, remove the top plate and look at the wiring diagram on the back of the top plate.
 - A protection plate is fixed for protection from the high-voltage section.
- 1) Dismount the stop valve cover by removing the screw.
 - 2) Dismount the protection plate by removing the 2 screws.
 - 3) Dismount the conduit mounting cover by removing the 2 screws.
 - 4) Pass wires through the conduit and secure them with a lock nut.



RXT15/18/24, RXTH15/18/24, RXP15/18/24, RXV15/18/30/36, RXF18/24, RKV30/36, RKF18/24

When wiring, remove the top plate and look at the wiring diagram on the back of the top plate.

- 1) Dismount the service lid by removing the 2 screws.
- 2) Slide the protection plate up and remove it.
- 3) Pass wires through the conduit and secure them with a lock nut.



Facility Setting (cooling at low outdoor temperature)

⚠ WARNING

- Make sure to turn the power OFF before performing work.

⚠ CAUTION

- If the outdoor unit is installed where the heat exchanger of the unit is exposed to direct wind, provide a windbreak wall.
- Intermittent noises may be produced by the indoor unit due to the outdoor fan turning on and off when using facility settings.
- Do not place humidifiers or other items which might raise the humidity in rooms where facility settings are being used. A humidifier might cause dew condensation from the indoor unit outlet vent.
- Activating the facility setting sets the indoor fan tap to the highest position. Notify the user about this.

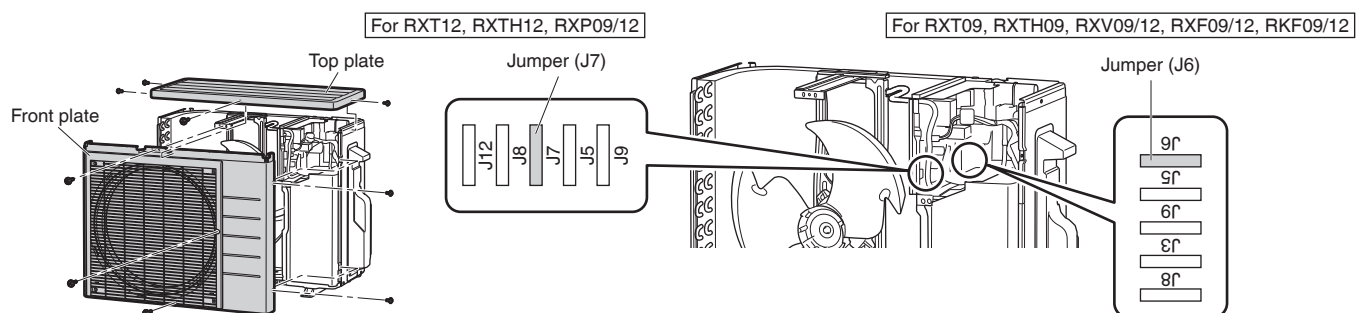
This function is designed for facilities such as equipment or computer rooms. It is never to be used in a residence or office where people occupy the space.

RXT09/12, RXTH09/12, RXP09/12, RXV09/12, RXF09/12, RKF09/12

- Cutting Jumper (J6) for RXT09, RXTH09, RXV09/12, RXF09/12, RKF09/12, Jumper (J7) for RXT12, RXTH12, RXP09/12 on the circuit board will expand the operation range down to 14 °F (–10 °C).

Installing an air direction adjustment grille (sold separately) will further extend the operation range to –4 °F (–20 °C). In these cases, the unit will stop operating if the outdoor temperature falls below –4 °F (–20 °C), restarting once the temperature rises above this level.

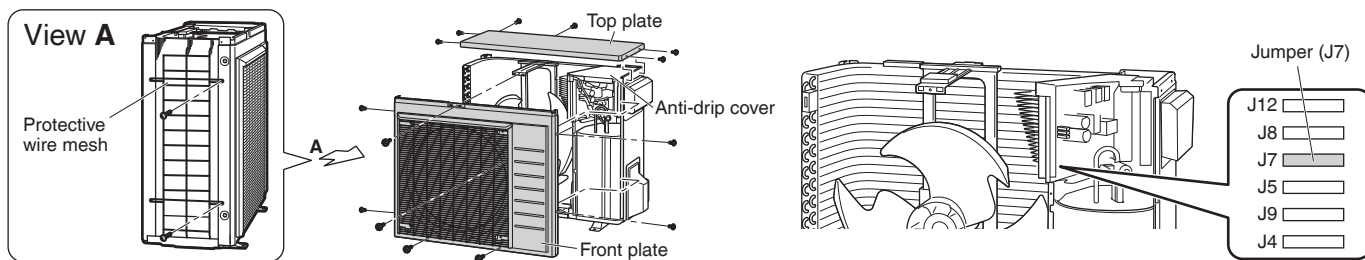
- 1) Remove the top plate.
- 2) Remove the front plate.
- 3) Cut Jumper (J6) for RXT09, RXTH09, RXV09/12, RXF09/12, RKF09/12, Jumper (J7) for RXT12, RXTH12, RXP09/12 of the PCB inside.



RXT15/18/24, RXTH15/18/24, RXP15/18/24, RXV15/18/30/36, RXF18/24, RKV30/36, RKF18/24

- Cutting jumper (J7) on the PCB will extend the operation range to 14 °F (–10 °C). Installing an air direction adjustment grille (sold separately) will further extend the operation range to –4 °F (–20 °C). In these cases, the unit will stop operating if the outdoor temperature falls below –4 °F (–20 °C), restarting once the temperature rises above this level.

- 1) Remove the top plate.
- 2) Remove the screws from the protective wire mesh if one is fitted.
- 3) Remove the front plate.
- 4) Remove the anti-drip cover.
- 5) Cut jumper (J7) of the PCB inside.



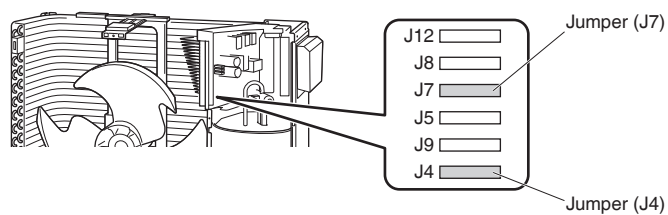
Only for RKV30/36 models

- Cutting jumper (J4) on the PCB, in addition to jumper (J7), will extend the operating range to -22°F (-30°C). The unit will stop operating if the outdoor temperature falls below -22°F (-30°C), and restart once the temperature rises above this level.

1) Cut jumper (J4) on the PCB in addition to jumper (J7).

NOTE

When the outdoor temperature is below -4°F (-20°C) and J4 is cut (as in this step), it may take up to 3 hours for operation to begin as the system must be warmed up to protect the compressor.



When attaching the drain pan heater (Only for heat pump models) (Excluding RXTH models)

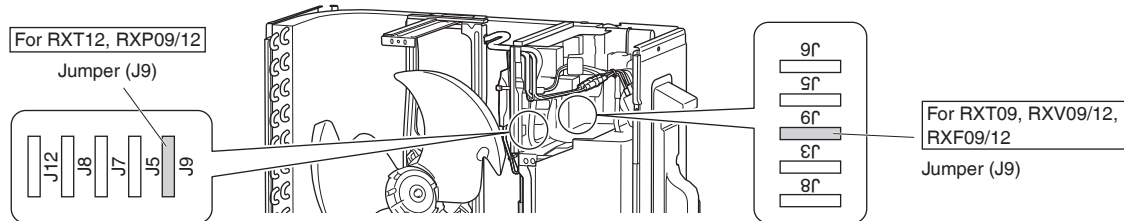
⚠ WARNING

- Make sure to turn the power OFF before performing work.

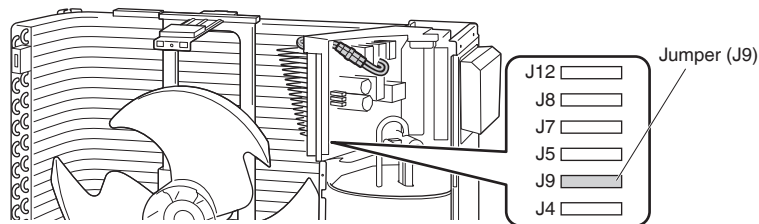
In high humidity areas or heavy snow areas, it is recommended to attach a drain pan heater to prevent ice build-up from the bottom frame.

- 1) Attach the drain pan heater in accordance with the installation manual included with the drain pan heater.
- 2) Cut jumper (J9) of the PCB inside.

RXT09/12, RXP09/12, RXV09/12, RXF09/12



RXT15/18/24, RXP15/18/24, RXV15/18/30/36, RXF18/24



Pump Down Operation

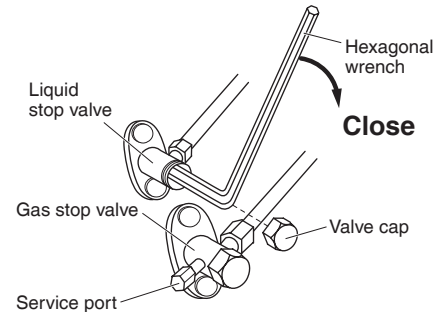


CAUTION

Do not open/close the stop valves when the outdoor temperature is -5°F (-21°C) or less, as this may result in refrigerant leakage.

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

- 1) Remove the valve caps from the liquid stop valve and gas stop valve.
- 2) Begin forced cooling operation.
- 3) After 5 to 10 minutes, close the liquid stop valve with a hexagonal wrench.
- 4) After 2 to 3 minutes, close the gas stop valve and stop forced cooling operation.
- 5) Attach the valve caps once procedures are complete.



Forced cooling operation

Refer to the installation manual for the indoor unit.

Trial Operation and Testing

- When trial operation is conducted directly after the circuit breaker is turned on, in some cases no air will be output for about 15 minutes in order to protect the air conditioner.

1. Trial operation and testing

Refer to the installation manual for the indoor unit.

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	

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Two-dimensional code is a
manufacturing code.

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