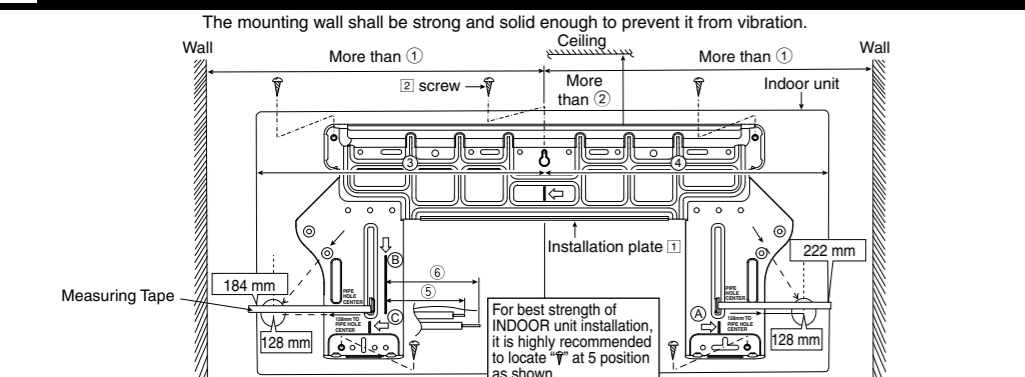


INDOOR UNIT

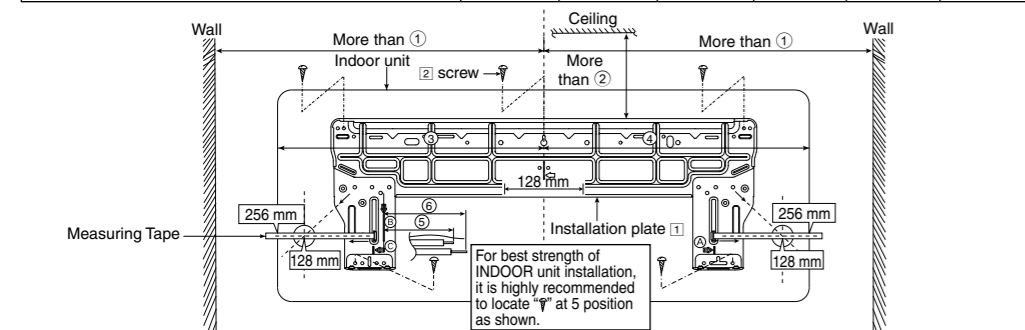
1 SELECT THE BEST LOCATION

(Refer to "Select the best location" section)

2 HOW TO FIX INSTALLATION PLATE



Model	Dimension					
	①	②	③	④	⑤	⑥
RZ25***, RZ35***	470 mm	90 mm	380 mm	420 mm	45 mm	95 mm

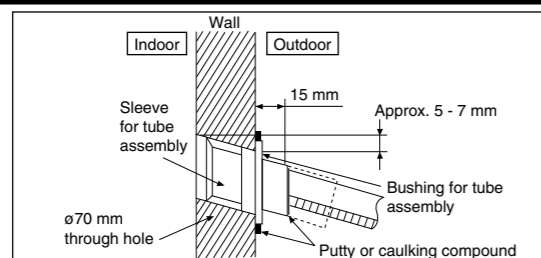


Model	Dimension					
	①	②	③	④	⑤	⑥
RZ50***, RZ60***, RZ71***, RZ80***	605 mm	95 mm	550 mm	550 mm	270 mm	320 mm

The center of installation plate should be at more than ① at right and left of the wall.
 The distance from installation plate edge to ceiling should more than ②.
 From installation plate center to unit's left side is ③.
 From installation plate center to unit's right side is ④.
 ⑤: For left side piping, piping connection for liquid should be about ⑤ from this line.
 ⑥: For left side piping, piping connection for gas should be about ⑥ from this line.
 1. Mount the installation plate on the wall with 5 screws or more (at least 5 screws).
 (If mounting the unit on the concrete wall, consider using anchor bolts.)
 • Always mount the installation plate horizontally by aligning the marking-off line with the thread and using a level gauge.
 2. Drill the piping plate hole with ø70 mm hole-core drill.
 • Line according to the left and right side of the installation plate.
 The meeting point of the extended line is the center of the hole.
 Another method is by putting measuring tape at position as shown in the diagram above.
 The hole center is obtained by measuring the distance namely 128 mm for left and right hole respectively.
 • Drill the piping hole at either the right or the left and the hole should be slightly slanting to the outdoor side.

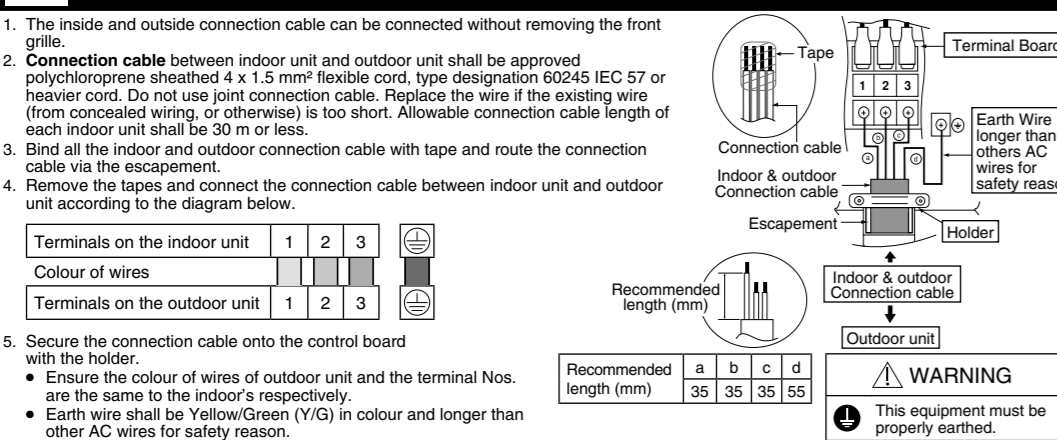
3 TO DRILL A HOLE IN THE WALL AND INSTALL A SLEEVE OF PIPING

1. Insert the piping sleeve to the hole.
2. Fix the bushing to the sleeve.
3. Cut the sleeve until it extrudes about 15 mm from the wall.



CAUTION
 When the wall is hollow, please be sure to use the sleeve for tube assembly to prevent dangers caused by mice biting the connection cable.

5 CONNECT THE CABLE TO THE INDOOR UNIT



WIRE STRIPPING, CONNECTING REQUIREMENT

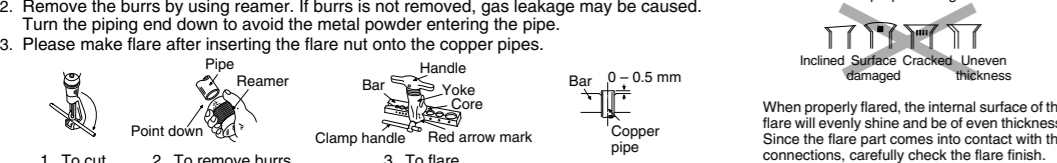
Wire stripping: No loose strand when inserted. Conductor fully inserted. Conductor over inserted. Conductor not fully inserted.

WARNING
 RISK OF FIRE JOINING OF WIRES MAY CAUSE OVERHEATING AND FIRE.
 Do not joint wires.

Use complete wire without joining.
 Use approved socket and plug with earth pin.
 Wire connection in this area must follow to national wiring rules.

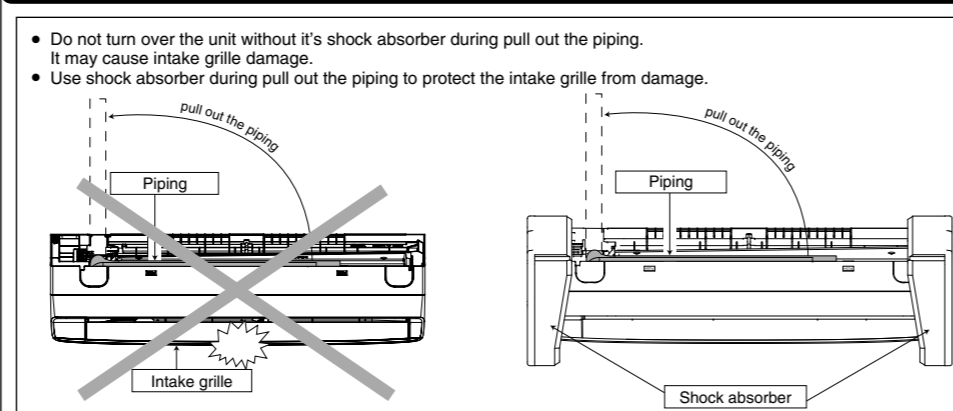
ACCEPT **PROHIBITED** **PROHIBITED**

CUTTING AND FLARING THE PIPING



1. To cut 2. To remove burrs 3. To flare

4 INDOOR UNIT INSTALLATION



- Do not turn over the unit without it's shock absorber during pull out the piping. It may cause intake grille damage.
- Use shock absorber during pull out the piping to protect the intake grille from damage.

1. FOR THE RIGHT REAR PIPING

Step-1 Pull out the Indoor piping

Step-2 Install the Indoor Unit

Step-3 Secure the Indoor Unit

Step-4 Insert the connection cable

2. FOR THE RIGHT AND RIGHT BOTTOM PIPING

Step-1 Pull out the Indoor piping

Step-2 Install the Indoor Unit

Step-3 Insert the connection cable

Step-4 Secure the Indoor Unit

3. FOR THE EMBEDDED PIPING

Step-1 Replace the drain hose

Step-2 Bend the embedded piping

Step-3 Pull the connection cable into Indoor Unit

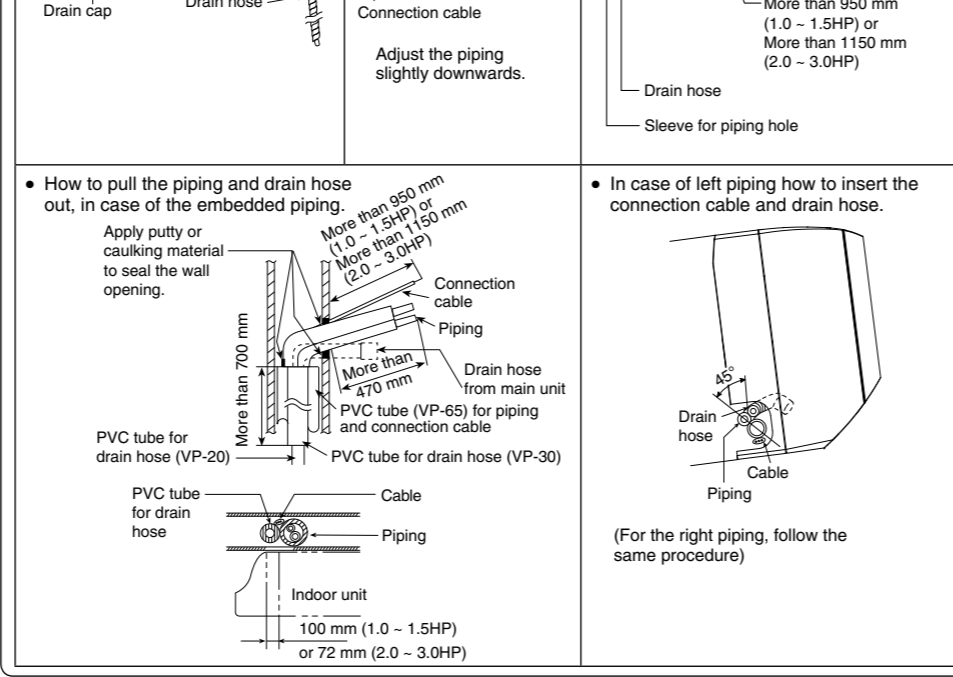
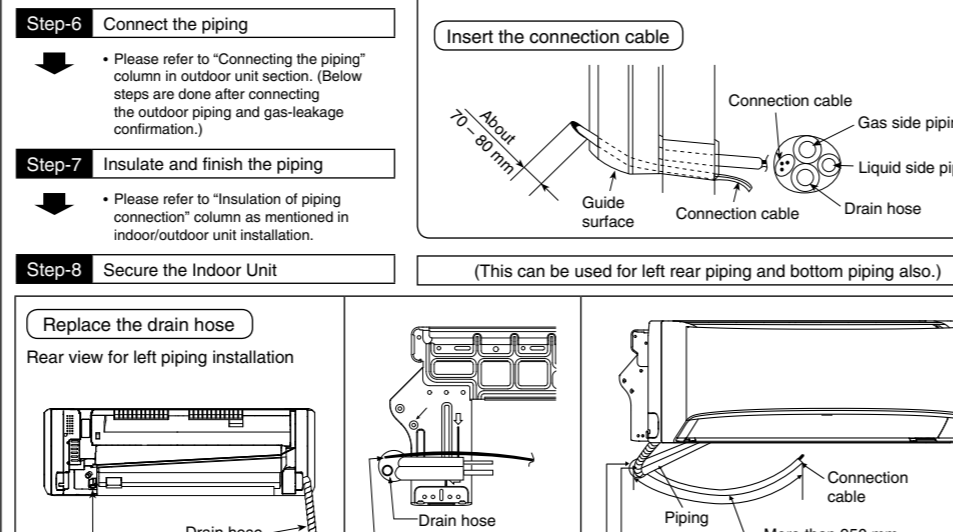
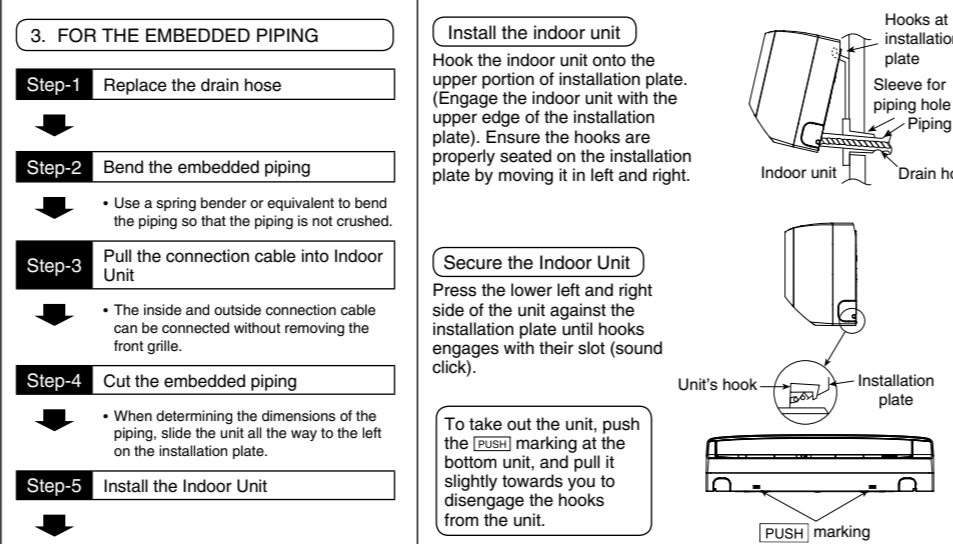
Step-4 Cut the embedded piping

Step-5 Install the Indoor Unit

Step-6 Connect the piping

Step-7 Insulate and finish the piping

Step-8 Secure the Indoor Unit



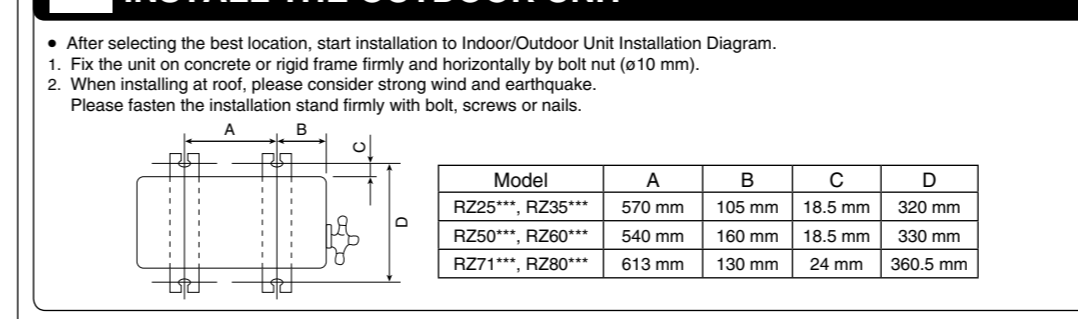
(For the right piping, follow the same procedure)

OUTDOOR UNIT

1 SELECT THE BEST LOCATION

(Refer to "Select the best location" section)

2 INSTALL THE OUTDOOR UNIT



5 CONNECT THE CABLE TO THE OUTDOOR UNIT

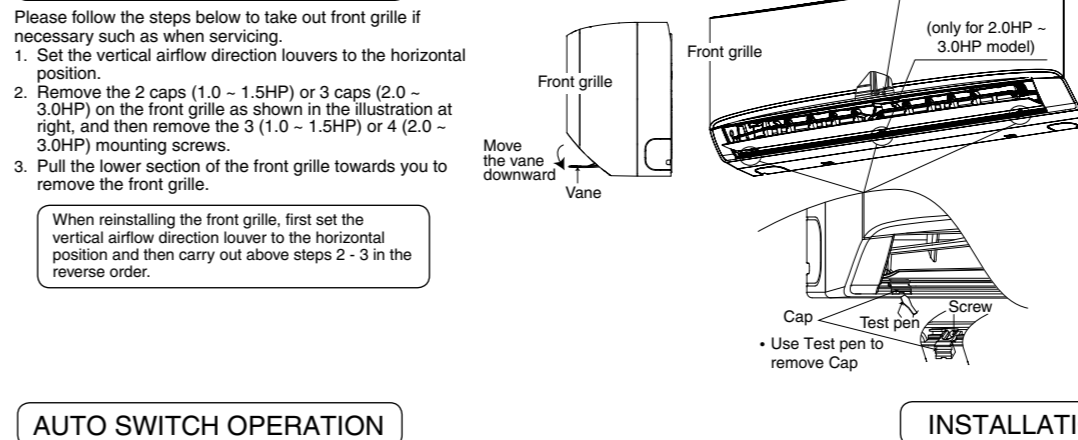
1. Remove the control board cover from the unit by loosening the screw.
 2. Cable connection to the power supply through Isolating Devices (Disconnecting means).
 • Connect approved type polychloroprene sheathed power supply cord 3 x 1.5 mm² (1.0 - 1.5HP), 3 x 2.5 mm² (2.0 - 2.5HP), 3 x 4.0 mm² (3.0HP) type designation 60245 IEC 57 or heavier cord to the terminal board, and connect the others end of the cord to Isolating Devices (Disconnecting means).
 • Do not use joint power supply cord. Replace the wire if the existing wire (from concealed wiring, or otherwise) is too short.
 • In unavoidable case, joining of power supply cord between isolating devices and terminal board of air conditioner shall be done by using approved socket and plug with earth pin rated 15/16A (1.0-1.5HP) or 16A (2.0 - 2.5HP) or 20A (2.5HP) or 25A (3.0HP). Wiring work to both socket and plug must follow to national wiring standard.
 3. Connection cable between indoor unit and outdoor unit shall be approved polychloroprene sheathed 4 x 1.5 mm² flexible cord, type designation 60245 IEC 57 or heavier cord. Do not use joint connection cable.
 Replace the wire if the existing wire (from concealed wiring, or otherwise) is too short. Allowable connection cable length of each indoor unit shall be 30 m or less.
 4. Demand control signal transmission cable between outdoor unit and DRED (Demand response enabling devices) shall be double insulation layer, polychloroprene sheathed (>50V) or type designation AS/NZS 5000.2 with size 4 x (0.5 mm² to 2.0 mm²) cable, where the maximum allowable length is 30 m.
 5. Connect the power supply cord and connection cable between indoor unit and outdoor unit according to the diagram below.

Terminals on the indoor unit
 Colour of wires (connection cable)
 Terminals on the outdoor unit
 (Power supply cord)
 Terminals on the isolating devices (Disconnecting means)

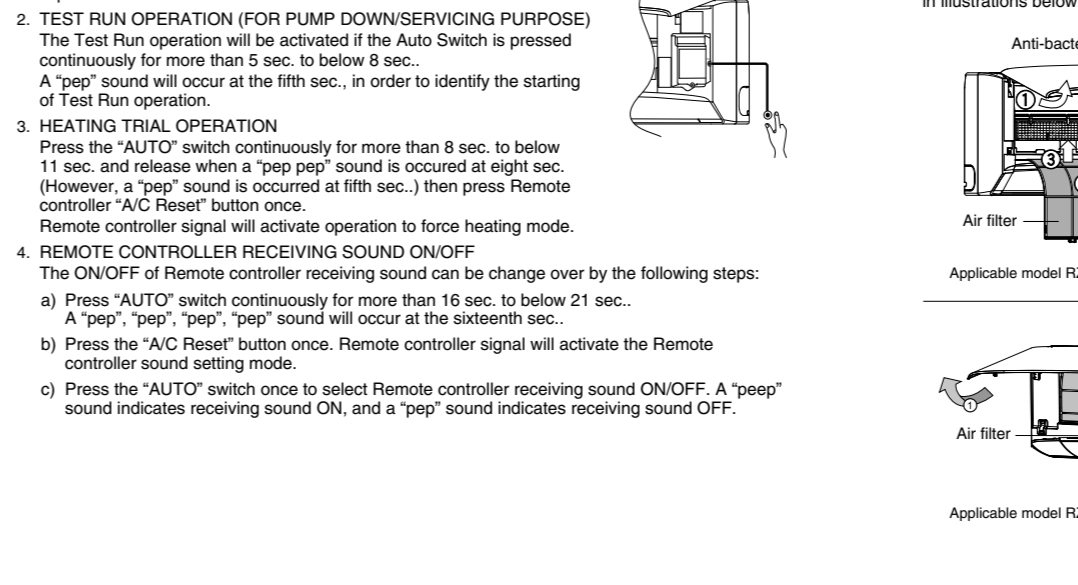
6. Secure the power supply cord and connection cable onto the control board with the holder.
 7. Attach the control board cover back to the original position with screw.
 8. For wire stripping and connection requirement, refer to instruction ⑤ of indoor unit.

WARNING
 This equipment must be properly earthed.

HOW TO TAKE OUT FRONT GRILLE



AUTO SWITCH OPERATION



3 CONNECT THE PIPING

Connecting The Piping to Indoor

For connection joint location at outside building
 Please make flare after inserting flare nut (locate at joint portion of tube assembly) onto the copper pipe. (In case of using long piping)
 Connect the piping
 • Align the center of piping and sufficiently tighten the flare nut with fingers.
 • Further tighten the flare nut with torque wrench in specified torque as stated in the table.

For connection joint location at inside building
 • Decide the length
 • Cut and remove the tube connectors at indoor copper pipings (both gas and liquid piping) by using pipe cutter. Remove burrs from cut edge.
 • Use pipe expander to expand the end of long piping.
 • Align the center of piping and braze the piping joints.

Indoor copper pipe (40-50mm) Tube connector Brazing point
 1. Cut and Remove 2. Expand long pipe 3. Braze both pipe

Spanner or Wrench Torque wrench

Connecting The Piping to Outdoor

Decide piping length and then cut by using pipe cutter. Remove burrs from cut edge.
 Make flare after inserting the flare nut (locate at valve) onto the copper pipe. Align center of piping to the specified torque as stated in the table.

Piping size	Torque
6.35 mm (1/4")	[18 N·m (1.8 kgf·m)]
9.52 mm (3/8")	[42 N·m (4.3 kgf·m)]
12.7 mm (1/2")	[55 N·m (5.6 kgf·m)]
15.88 mm (5/8")	[65 N·m (6.6 kgf·m)]
19.05 mm (3/4")	[100 N·m (10.2 kgf·m)]

Do not overtighten, overtightening may cause gas leakage.

4 EVACUATION OF THE EQUIPMENT

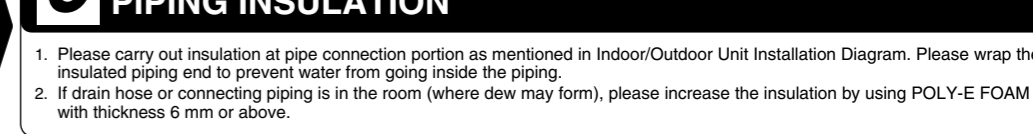
WHEN INSTALLING AN AIR CONDITIONER, BE SURE TO EVACUATE THE AIR INSIDE THE INDOOR UNIT AND PIPES IN THE following procedure.

Do not purge the air with refrigerants but use a vacuum pump to vacuum the installation.
 There is no extra refrigerant in the outdoor unit for air purging.

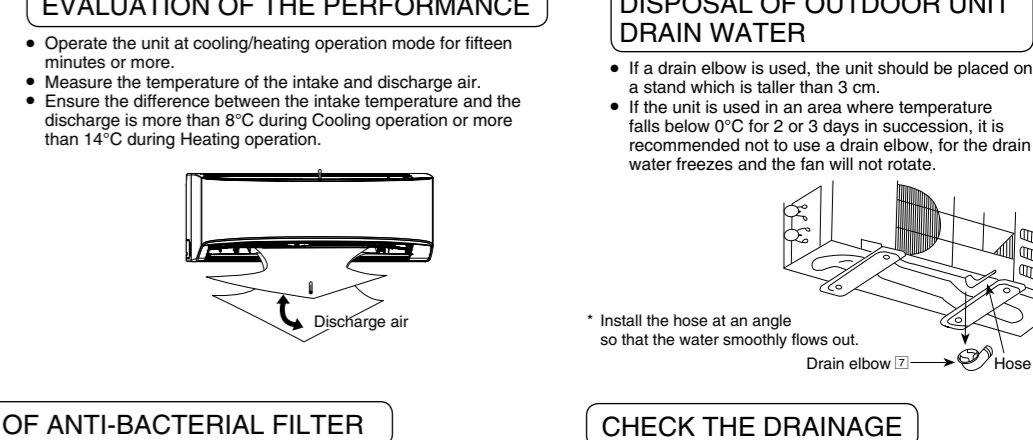
1. Connect a charging hose with a push pin to the Low side of a charging set and the service port of the 3-way valve.
2. Be sure to connect the end of the charging hose with the push pin to the service port.
3. Connect the center hose of the charging set to a vacuum pump.
4. Turn on the power switch of the vacuum pump and make sure that the needle in the gauge moves from 0 cmHg (0 MPa) to -76 cmHg (-0.1 MPa). Then evacuate the air approximately ten minutes.
5. Close the Low side valve of the charging set and turn off the vacuum pump. Make sure that the needle in the gauge does not move after approximately five minutes.
6. Tighten the service port caps of the 3-way valve at a torque of 18 N·m with a torque wrench.
7. Remove the valve caps of both of the 2-way valve and 3-way valve. Position both of the valves to "OPEN" using a hexagonal wrench (4 mm).
8. Mount valve caps onto the 2-way valve and the 3-way valve.
 • Be sure to check for gas leakage.

If the gauge needle does not move from 0 cmHg (0 MPa) to -76 cmHg (-0.1 MPa), in step ④ above take the following measure:
 • If the leak stops when the piping connections are tightened further, continue working from step ④.
 • If the leak does not stop when the connections are retightened, repair location of leak.
 - Do not release refrigerant during piping work for installation and reinstallation.
 - Take care of the liquid refrigerant, it may cause frostbite.

6 PIPING INSULATION



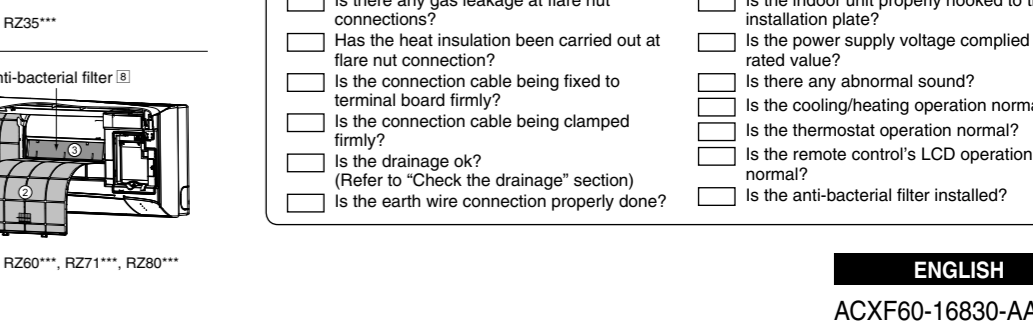
EVALUATION OF THE PERFORMANCE



DISPOSAL OF OUTDOOR UNIT DRAIN WATER



INSTALLATION OF ANTI-BACTERIAL FILTER



APPLICABLE MODEL RZ25***, RZ35***, RZ50***, RZ60***, RZ71***, RZ80***