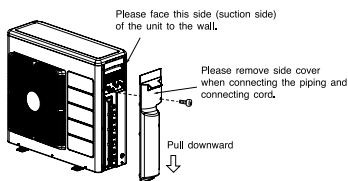
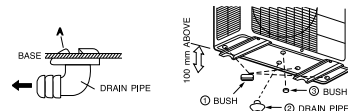


- Please mount the Outdoor unit on stable ground to prevent vibration and increase of noise level.
- Decide the location for piping after sorting out the different types of pipe available.
- When removing side cover, please pull the handle after undoing the hook by pulling it downward.



CONDENSED WATER DISPOSAL OF OUTDOOR UNIT

- There are holes on the base of Outdoor unit for condensed water to exhaust.
- In order to flow condensed water to the drain, the unit is installed on a stand or a block so that the unit is 100mm above the ground as shown figure. Join the drain pipe to one hole.
- At first insert one portion of the hook to the base (Portion A), then pull the drain pipe in the direction shown by the arrow while inserting the hook into the base. After installation, check whether the drain pipe is cing to the base firmly.



When Using and Installing in Cold Areas

When the air conditioner is used in low temperature and in snowy conditions, water from the heat exchanger may freeze on the base surface to cause poor drainage. When using the air conditioner in such areas, do not install the bushings. Keep a minimum of 250mm between the drain hole and the ground. When using the drain pipe, consult your sales agent.

※ For more details, refer to the installation Manual for Cold Areas.

INSTALLATION OF REFRIGERATING PIPES AND AIR REMOVAL

1 Preparation of Pipe

- Use a pipe cutter to cut the copper pipe.



CAUTION

- Jagged edge will cause leakage.
- Point the side to be trimmed downwards during trimming to prevent copper chips from entering the pipe.
- Before flaring, please put on the flare nut.



- Recommend to use R32 flaring tool.

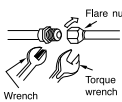
Outer Diameter mm (inch)	Thickness (mm)	A (mm)	
		Flare tool for R32 Clutch type	Conventional flare tool Clutch type Wing nut type
6.35 (1/4")	0.8	0.0 ~ 0.5	1.0 ~ 1.5 1.5 ~ 2.0
9.52 (3/8")	0.8	0.0 ~ 0.5	1.0 ~ 1.5 1.5 ~ 2.0
12.70 (1/2")	0.8	0.0 ~ 0.5	1.0 ~ 1.5 1.5 ~ 2.5

2 Pipe Connection

CAUTION

In case of removing flare nut of an Indoor unit, first remove a nut of small diameter side, or a seal cap of big diameter side will fly out. Prevent water from entering into the piping when working.

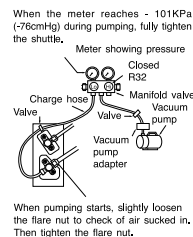
	Outer dia. of pipe (mm)	Torque N·m (kgf·cm)	
		Small dia. side	Large dia. side
Valve head cap	6.35 (1/4")	14.0 ~ 18.0 (140 ~ 180)	33.0 ~ 42.0 (330 ~ 420)
Valve core cap	6.35 (1/4")	19.6 ~ 24.5 (200 ~ 250)	12.3 ~ 15.7 (125 ~ 160)
Spindle	6.35 (1/4")	3.92 ~ 5.88 (40 ~ 60)	9.80 ~ 10.78 (100 ~ 110)



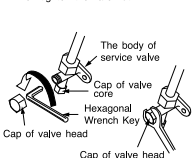
3 Removal Of Air From The Pipe And Gas Leakage Inspection

Procedures of using Vacuum Pump for Air Removal

- As shown in right figure, remove the cap of valve core. Then, connect the charge hose, remove the cap of valve head. Connect the vacuum pump adapter to the vacuum pump and connect the charge hose to the adapter.
- Fully tighten the "Hi" knob of the manifold valve and completely unscrew the "Lo" knob. Run the vacuum pump for about 10-15 minutes, then completely tighten the "Lo" knob and switch off the vacuum pump.
- Remove the charge hose and tighten the cap of valve core. Check the cap's periphery if there is any gas leakage.
- Completely unscrew the spindle of the service valve in anti-clockwise direction to allow the flow of refrigerant (using Hexagonal Wrench key).
- Re-cap the service valve and tighten using wrench. Check the cap's periphery if there is any gas leakage. The task is then completed.



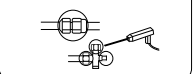
When the meter reaches - 101KPa (-750mmHg) during pumping, fully tighten the shuttles.



Gas Leakage Inspection

Please use gas leakage detector to check if leakage occurs at the connection of Flare nut as shown on the right.

If gas leakage occurs, further tighten the connection to stop leakage. (Be sure to use R32 detector)



WARNING • THIS APPLIANCE MUST BE EARTHED.

Procedures of Wiring

- Especially, the selection of installation place need great care for the split type air conditioner, because it is very difficult to move from place to place after the first installation.

1.1 Wiring

- Connect the electrical wiring between the Indoor and Outdoor unit, as shown in Fig. 1-1. Never connect the wiring by mistake. In case of wrong connection, the unit does not operate properly and it may cause malfunction.
- The connecting cord must be fixed by the band which is located near the terminal board.

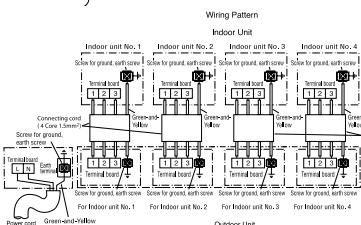


Fig. 1-1

1.2 Connection of the connecting cords and power cord

- Cut off the connecting cord, the power cord and strip the insulation of the wire, as shown in Fig. 1-2.
- Connect the connecting cord and power cord to the terminal board. (Fig. 1-3)
- Fix the connecting cords and power cord with steel band certainly. (Fig. 1-3)

Detail of Cutting the Connecting Cord

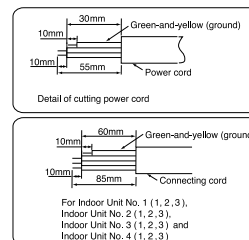
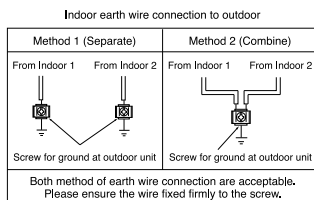


Fig. 1-2



WARNING

- Leave some space in the connecting cord for maintenance purpose and be sure to secure it with the cord band.
- Secure the connecting cord along the coated part of the wire using the cord band. Do not exert pressure on the wire as this may cause overheating or fire.

WARNING

- The naked part of the wire core should be 10 mm and fix it to the terminal tightly. Then try to pull the individual wire to check if the contact is tight. Improper insertion may burn the terminal.
- Be sure to use only wire specified for the use of air-conditioner.
- Please refer to the manual for wire connection and the wiring technique should meet the standard of the electrical installation.
- There is an AC voltage drop between the LN terminal if the power is on. Therefore, be sure to remove the plug from its socket.

Wiring of The Outdoor Unit

- Please remove the side cover for wire connection.

WARNING

- If you cannot attach the side cover due to the connection cord, please press the connecting cord in the direction to the front panel to fix it.
- Be sure that the hooks of the side cover is fixed in certainly. Otherwise water leakage may occur and this causes short circuit or faults.
- The connecting cord should not touch to service valve and pipes. (It becomes high temperature in heating operation.)

Checking for the electric source and the voltage range

- Before installation, the power source must be checked and necessary wiring work must be completed. To make the wiring capacity proper, use the wire gauge list below for the wiring from house distribution fuse box to the outdoor unit in consideration of the locked rotor current.
- Investigate the power supply capacity and other electrical conditions at the installing location. Depending on the model of room air conditioner to be installed, request the customer to make arrangements for the necessary electrical work etc. The electrical work includes the wiring work up to the outdoor unit. In localities where electrical conditions are poor, use of a voltage regulation is recommended.
- Install outdoor for the room air conditioner within the reaching range of the line cord.

IMPORTANT

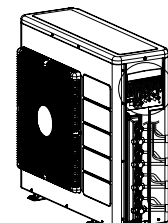
For (Power cord - L, N, Earth)

Cable type	Wire cross-section
3 Core	2.5mm ²

For (Connecting cord - 1, 2, 3, Earth)

Cable type	Wire cross-section	Cable length
4 Core	1.5mm ²	up to 25m

Bind connecting cords to make them fit between the convex sections.



Connect the earth cord

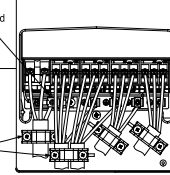


Fig. 1-3

IMPORTANT

Circuit Breaker

20A

Grounding rod (optional)

(Earth wire and grounding rod are not supplied. Please use optional items below.)

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod

SP-EB-2

Length 900mm

Earth line

Type of grounding rod