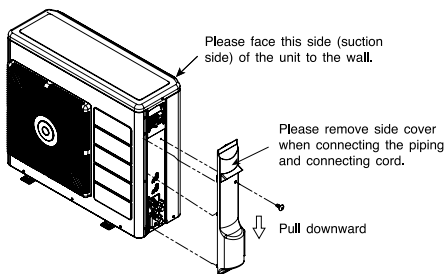
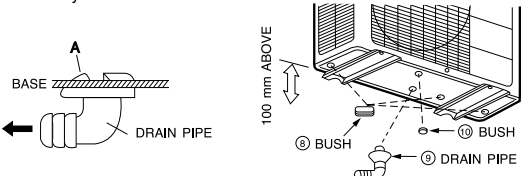


- Please mount the Outdoor unit on stable ground to prevent vibration and increase of noise level.
- Decide the location for piping after sorting out the different types of pipe available.
- When removing side cover, please pull the handle after undoing the hook by pulling it downward.



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 cling to the base firmly.



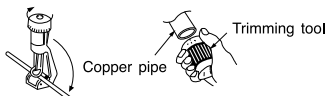
When Using and Installing In Cold Areas

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.

1 Preparation of Pipe

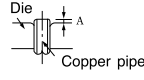
- Use a pipe cutter to cut the copper pipe.



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.

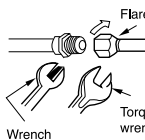
Outer Diameter mm (inch)	Thickness (mm)	A (mm)		
		Flare tool for R32 Clutch type	Conventional flare tool Clutch type	Wing nut type
6.35 (1/4")	0.8	0.0 ~ 0.5	1.0 ~ 1.5	1.5 ~ 2.0
9.52 (3/8")	0.8	0.0 ~ 0.5	1.0 ~ 1.5	1.5 ~ 2.0
12.70 (1/2")	0.8	0.0 ~ 0.5	1.0 ~ 1.5	1.5 ~ 2.5
15.88 (5/8")	1.0	0.0 ~ 0.5	1.0 ~ 1.5	1.5 ~ 2.5

2 Pipe Connection



- When removing flare nut from the Indoor unit, please ensure to use proper tooling.
- Prevent pipe from coming in contact with water or working in wet area.

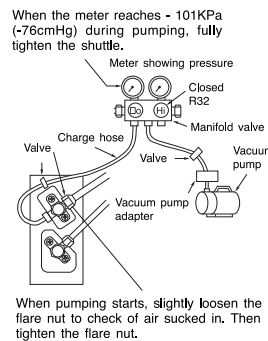
		Outer diameter of pipe	Torque N.m (kgf • cm)
Small dia. side	Flare nut	6.35 (1/4")	13.7 ~ 18.6 (140 ~ 190)
	Valve head cap	6.35 (1/4")	19.6 ~ 24.5 (200 ~ 250)
Large dia. side	Flare nut	9.52 (3/8")	34.3 ~ 44.1 (350 ~ 450)
	Valve head cap	9.52 (3/8")	19.6 ~ 24.5 (200 ~ 250)
Valve core cap	Valve core cap	12.7 (1/2")	29.4 ~ 34.3 (300 ~ 350)
	Valve core cap	12.7 (1/2")	12.3 ~ 15.7 (125 ~ 160)



3 Removal Of Air From The Pipe And Gas Leakage Inspection

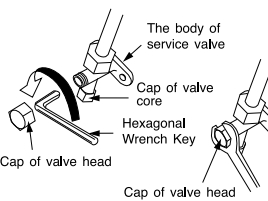
Procedures of using Vacuum Pump for Air Removal

- 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 (at 2 places) 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 (-76cmHg) during pumping, fully tighten the shuttles.

When pumping starts, slightly loosen the flare nut to check of air sucked in. Then tighten the flare nut.

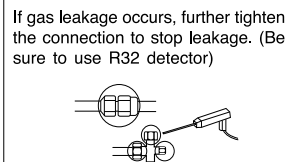


CAUTION

- Prevent moisture from entering pipe connection.
- Refrigerating machine oil not be applied to the outside of the flare. When refrigerating machine oil is applied to the outside of the flare, excessive tightening of the flare nut, cracking of the flare nut, destruction of the flare and gas leakage may occur.
- When using the control valve, do not use deteriorated packing. And, do not overtighten the steering wheel. Gas leakage from the service valve part, stagnation, touching fire, rarely cause ignition.

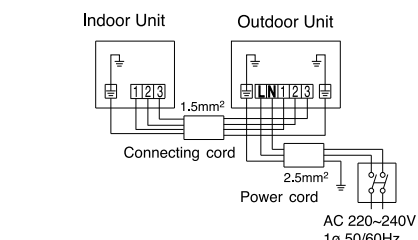
Gas Leakage Inspection

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

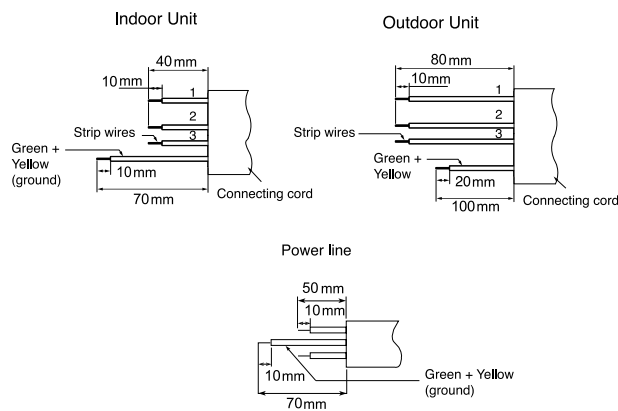


WARNING • THIS APPLIANCE MUST BE EARTHED.

Procedures of Wiring



Detail of Cutting the Connecting Cord

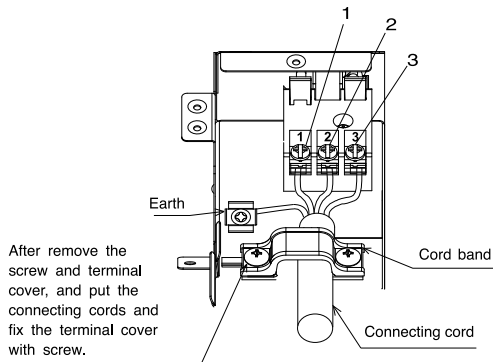


WARNING

- 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 Indoor Unit

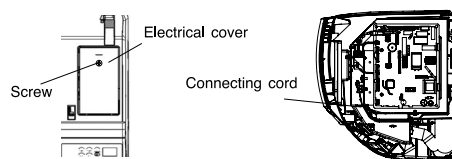
- For wire connection of the indoor unit, you need to remove the front cover, the low cover under the body of the unit and terminal cover.
- Remove the cover from the terminal base and screw the cable.



After remove the screw and terminal cover, and put the connecting cords and fix the terminal cover with screw.

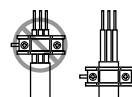
Method to remove electrical cover

- Remove the screw and electrical cover.
- Insert the connecting cord (1, 2, 3) from the back of unit.
- Fixed the wire to terminal wires firmly as shown as below.



WARNING

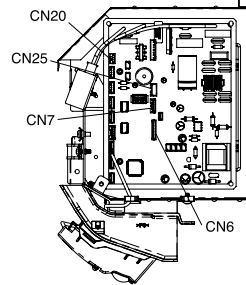
- Leave some space in the connecting cord for maintenance purpose and be sure to secure it with the cord band.
- Secure the connecting cord along the coated part of the wire using the cord band. Do not exert pressure on the wire as this may cause overheating or fire.



How to connect the optional parts

(Dry contact, H-Link/Wi Fi (optional), Wired remote, Run status)

- For cable connection to control P.W.B., you need to remove front cover and electrical box cover. Each connecting location is as below.
 - ① Dry contact: CN6
 - ② H-LINK/Wi Fi: CN7
 - ③ Wired Remote Controller: CN20
 - ④ Run status: CN25
- Please check and confirm manuals attached to each optional parts for more connection details.
- You can refer to this installation manual how to remove and re-attach the front cover.
- Please be careful not to damage lead wires by edge of plate when connecting the optional parts.



Wiring of The Outdoor Unit

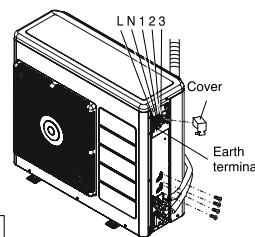
- Please remove the side plate for wire connection.



- If you cannot attach the side plate 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 plate 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 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.



For (Power cord - L, N, Earth)

Wire cross-section
2.5 mm²

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

Wire length	Wire cross-section
up to 30 m	1.5mm²

IMPORTANT

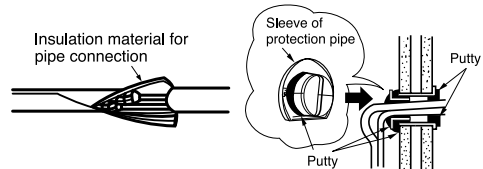
Circuit Breaker	Residual Current Device
20A	2 Poles 40A 30mA

CAUTION

Outdoor supply cords shall not be lighter than polychloroprene sheathed flexible cord with code designation 60245 IEC 57.

1 Insulation And Maintenance Of Pipe Connection

- The connected terminals should be completely sealed with heat insulator and then tied up with rubber strap.
- Please tie the pipe and power line together with vinyl tape as shown in the figure showing the installation of Indoor and Outdoor units. Then fix their position with holders.
- To enhance the heat insulation and to prevent water condensation, please cover the outdoor part of the drain hose and pipe with insulation pipe.
- Completely seal any gap with putty.



3 Power Source And Operation Test

Power Source

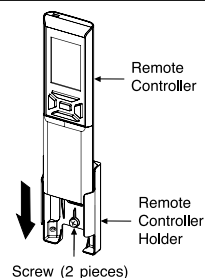
CAUTION

- Please use a new socket. Accident may occur due to the use of old socket because of poor contact.
- Please plug in and then remove the plug for 2 - 3 times. This is to ensure that the plug is completely plugged into the socket.
- Keep additional length for the power cord and do not render the plug under external force as this may cause poor contact.
- Do not fix the power cord with U-shape nail.

2 Installation Of Remote Controller

- The remote controller can be placed in its holder which is fixed on wall or beam.
- To operate the remote controller at its holder, please ensure that the unit can receive signal transmitted from the controller at the place where the holder is to be fixed. The unit will beep when signal is received from the remote controller. The signal transmission is weakened by the fluorescent light. Therefore, during the installation of the remote control holder, please switch on the light, even during day time, to determine the mounting location of the holder.

The remote controller must be slide in the remote controller holder, in the direction as shown in the figure, until it hooks at the lower end of the remote controller holder.

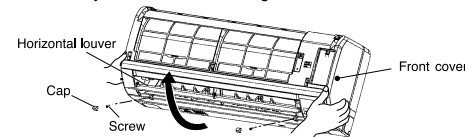


Operation Test

- Please ensure that the air conditioner is in normal operating condition during the operation test.
- Explain to your customer the proper operation procedures as described in the user's manual.

How to remove the Front Cover

- Remove the front panel.
 - Pull up the front panel by holding it at both lower sides with both hands.
 - When the front panel full open, pull the inner part of the right arm outward and pull the panel forward while closing it gradually.
- Remove the pre-filters.
 - Push upward to release the claws and pull out the Pre-filter.
- After removing two caps and two screws, rotate the horizontal louver towards you a bit. Then, pull the center of the front cover to release the claws.
- Pull the side faces (lower sections) of the front cover towards you as shown in the figure and remove the cover.



How to attach the Front Cover

- Check to ensure that the drain pan is securely attached.
- To install the front cover onto the unit, push two points from the center to lock the two claws in the direction as shown in the image below. Then, hook the four claws at upper side of the front cover securely.
 - Claws
 - View A
 - Claw
 - Before insertion
 - Claw
 - After insertion
- Tighten the two screws, then attach the two caps.
- Install the pre-filters.
- Slide the shafts on the left then on the right arms of the front panel along the step on the front cover. Please insert the shafts into the holes until they stop. After checking the shafts are securely inserted, close the front panel.

