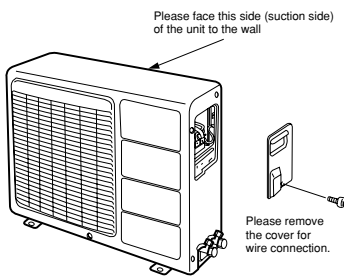
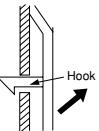


- Please mount the outdoor unit on stable ground to prevent vibration and increase of noise level.
- Decide the location for piping after sorting out the different types of pipe available.



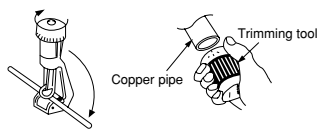
Procedure to remove the cover of wiring terminals

- Remove the screw (1 piece).
- Hold the projected part at the lower left of the cover and push the cover upwards to remove it.
- To close the cover, insert the upper part of the cover into the body of outdoor unit, then be sure that the hook below the cover is plugged in before screwing.



1 Preparation of Pipe

- Use a pipe cutter to cut the copper pipe.



CAUTION

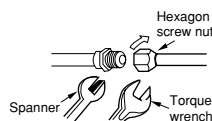
- Jagged edge will cause leakage.
- Point the side to be trimmed downwards during trimming to prevent copper chips from entering the pipe.
- Before flaring, please put on the hexagon screw cap.



Outer Diameter (φ)	A (mm)	
	Imperial flaring tool	Rigid flaring tool
6.35 (1/4")	0.8 - 1.5	0 - 0.5
9.52 (3/8")	1.0 - 1.8	0 - 0.5

2 Pipe Connection

- Please be careful when bending the copper pipe.
- Applied frozen grease to the connection points and then screw in manually. After that, use a torque wrench to tighten the connection.

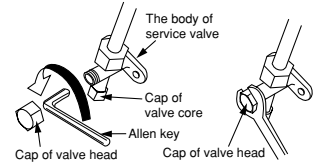
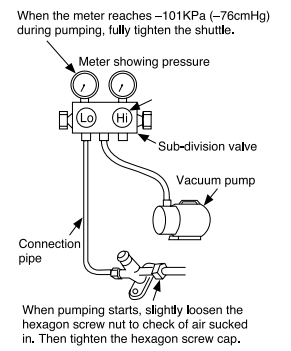


	Outer diameter of pipe	Torque N.m (kgf • cm)
Small diameter side	6.35 (1/4")	13.7 - 18.6 (140 - 190)
Big diameter side	9.52 (3/8")	34.3 - 44.1 (350 - 450)
Valve head cap		19.6 - 24.5 (200 - 250)
Valve core cap		12.3 - 15.7 (125 - 160)

3 Removal Of Air From The Pipe And Gas Leakage Inspection

Procedures of using Vacuum Pump for Air Removal

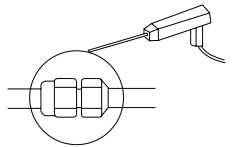
- As shown in right figure, remove the cap of valve core. Then, connect the charge hose. Remove the cap of valve head. Connect the vacuum pump adapter to the vacuum pump and connect the charge hose to the adapter.
- Fully tighten the "Hi" shuttle of the manifold valve and completely unscrew the "Lo" shuttle. Run the vacuum pump for about 10-15 minutes, then completely tighten the "Lo" shuttle and switch off the vacuum pump.
- Completely unscrew the spindle of the service valve (at 2 places) in anti-clockwise direction to allow the flow of coolant (using Hexagonal Wrench key).
- Remove the charge hose and tighten the cap of valve head. Check the cap's periphery if there is any gas leakage. The task is then completed.



Gas Leakage Inspection

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

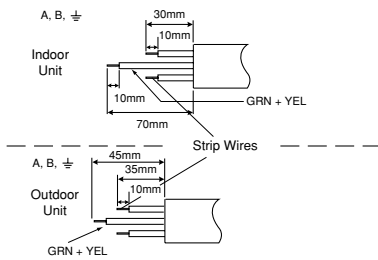
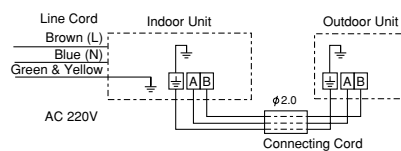
If gas leakage occurs, further tighten the connection to stop leakage.



WARNING • THIS APPLIANCE MUST BE EARTHED.

Power supply shall be connected at the rated voltage, otherwise the unit will be broken or could not reach the specified capacity.

Procedures of Wiring



Detail of cutting the connecting cord

To remove the connecting wires for the indoor unit, please remove the low cover panel in front of the unit.

WARNING

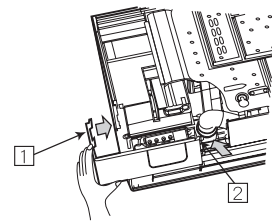
- The naked part of the wire core should be 10 mm and fix it to the terminal tightly. Then try to pull the individual wire to check if the contact is tight. Improper insertion may burn the terminal.
- Be sure to use only power cables approved from the authorities in your country. For example in Germany: Cable type: NYM 3x1.5mm², (fuse = 20A time delay)
- Please refer to the installation manual for wire connection to the terminals of the units. The cabling must meet the standards of electrical installation.
- There is a AC voltage of 220V between the L and N terminals. Therefore, before servicing, be sure to remove the plug from the AC outlet or switch off the main switch.

Wiring Of The Indoor Unit

- For wire connection of the Indoor unit, you need to remove front panel and electrical cover.
- Method to remove front panel
- Refer to "How to Remove The Front Cover".

Method to remove the low cover

- Pull the cover at ① and ② in the directions as shown by arrows to remove the cover.

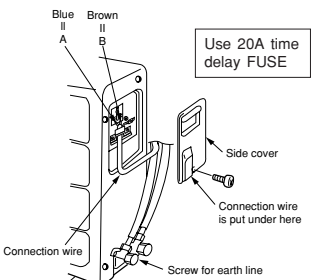
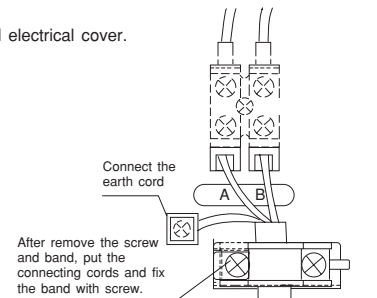


Wiring Of The Outdoor Unit

- Please remove the side cover for wire connection.

WARNING

- You may not be able to close the side cover due to the connecting cord, under such situation, please press against the wait of side cover to fix it.
- Be sure that the hooks (2 places) are plugged in. Otherwise, water leakage may occur and this causes short circuit or faults.

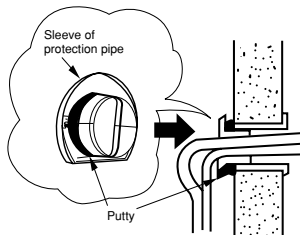
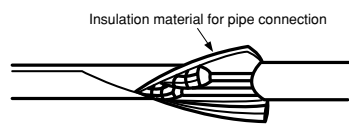


CAUTION

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

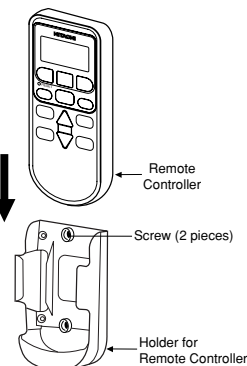
- The connected terminals should be completely sealed with heat insulator and then tied up with rubber strap.
- Please tie the pipe and power line together with plastic tape as shown in the figure of installation of both the indoor and outdoor units. Then fix their position with holders.
- To enhance 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.



2 Installation Of Remote Control

- 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 controller should be insert from top into bottom side of the holder as shown in figure below.



3 Earth Line And Circuit Breaker

CAUTION

- The earth line terminal of the outdoor unit is below the service valve.
- To avoid short circuit, it is necessary to install circuit breaker depending on the mounting location of the unit.
- Do not place earth line near the following objects:
 - (1) Water pipe
 - (2) Gas pipe - There is danger of catching fire.
 - (3) The earth line of lightning conductor and telephone - short circuit may occur during lightning.

4 Power Source And Operation Test

Power Source

WARNING

- Do not alter the plug of power cord.
- Do not make extension to the power cord.

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.

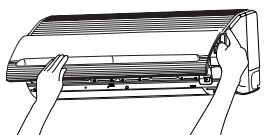
Operation Test

- 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

1 Remove the front panel.

- Please remove and attach the front panel by both hands.

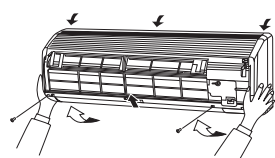


- After opening the front panel by both hands.
 - ① Undo the right arm while pushing it inside.
 - ② Slide the front panel to right as shown in figure. Then remove while pulling it to front.

2 Remove the filters.

3 After removing two screws, pull the center of the front cover towards you and release the claws.

4 Pull the side faces (lower sections) of the front cover towards you as shown in the figure and remove the cover.

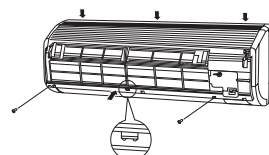


How to Attach the Front Cover

1 Check that the drain pan is securely attached.

2 After installing the front cover onto the unit, hook three claws at upper side of the cover securely. Then, push the center of the front cover to lock the claws.

3 Tighten the two screws.



4 Install the filter.

5 Slide the shafts of the right and left arms on the washable panel along the steps to insert the shafts into the holes till they stop. After checking that the shafts are securely inserted, close the panel.

