7. Installation Manual

7.1 Notices for Installation

Caution

1. The unit should be installed only by authorized service center according to local or government regulations and in compliance with this manual.

2.Before installing, please contact with local authorized maintenance center. If the unit is not installed by the authorized service center, the malfunction may not be solved due to incovenient contact between the user and the service personnel.

3. When removing the unit to the other place, please firstly contact with the local authorized service center.

4. Warning: Before obtaining access to terminals, all supply circuits must be disconnected.

5.For appliances with type Y attachment, the instructions shall contain the substance of the following. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

6.The appliance must be positioned so that the plug is accessible.

7. The temperature of refrigerant line will be high; please keep the interconnection cable away from the copper tube.

8. The instructions shall state the substance of the following:

This appliance 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 appliance.

7.1.1 Installation Site Instructions

Proper installation site is vital for correct and efficient operation of the unit. Avoid the following sites where:

•strong heat sources, vapours, flammable gas or volatile liquids are emitted.

•high-frequency electro-magnetic waves are generated by radio equipment, welders and medical equipment.

•salt-laden air prevails (such as close to coastal areas).

•the air is contaminated with industrial vapours and oils.

•the air contains sulphures gas such as in hot spring zones.

•corrosion or poor air quality exists.

7.1.2 Installation Site of Indoor Unit

1. The air inlet and outlet should be away from the obstructions. Ensure the air can be blown through the whole room.

2.Select a site where the condensate can be easily drained out, and where it is easily connected to outdoor unit.

3.Select a place where it is out of reach of children.

4. Select a place where the wall is strong enough to withstand the full weight and vibration of the unit.

5.Be sure to leave enough space to allow access for routine maintenance. The installation site should be 250cm or more above the floor.

6.Select a place about 1m or more away from TV set or any other electric appliance.

7.Select a place where the filter can be easily taken out.

8. Make sure that the indoor unit is installed in accordance with installation dimension instructions.

9.Do not use the unit in the laundry or by swimming pool etc.

7.1.3 Safety Precautions for Electric Appliances

1.A dedicated power supply circuit should be used in accordance with local electrical safety regulations.

2.Don't drag the power cord with excessive force.

3. The unit should be reliably earthed and connected to an exclusive earth device by the professionals.

4. The air switch must have the functions of magnetic tripping and heat tripping to prevent short circuit and overload.

5. The minimum distance between the unit and combustive surface is 1.5m.

6. The appliance shall be installed in accordance with national wiring regulations.

7.An all-pole disconnection switch with a contact separation of at least 3mm in all poles should be connected in fixed wiring. **Note:**

•Make sure the live wire, neutral wire and earth wire in the family power socket are properly

connected. There should be reliable circuit in the diagram.

•Inadequate or incorrect electrical connections may cause electric shock or fire.

7.1.4 Earthing Requirements

1. Air conditioner is type I electric appliance. Please ensure that the unit is reliably earthed.

2. The yellow-green wire in air conditioner is the earthing wire which can not be used

for other purposes. Improper earthing may cause electric shock.

3. The earth resistance should accord to the national criterion.

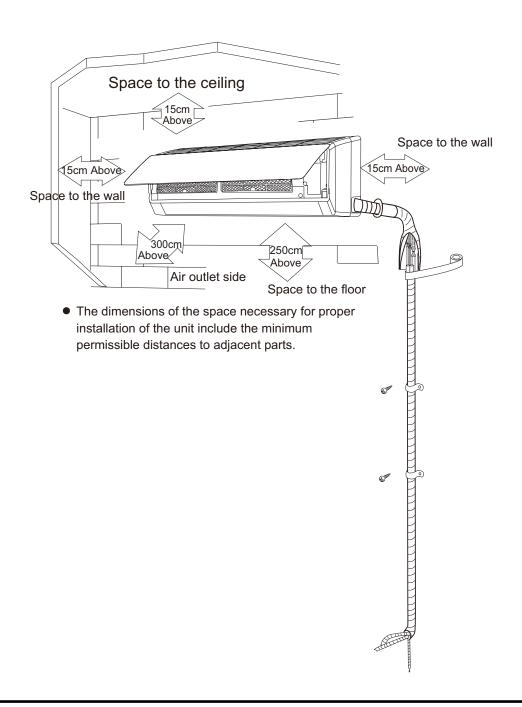
4. The power must have reliable earthing terminal. Please do not connect the earthing wire with the following:

(1) Water pipe (2) Gas pipe (3) Contamination pipe

4 Other place that professional personnel consider is unreliable

5. The model and rated values of fuses should accord with the silk print on fuse cover or related PCB.

7.2 Installation Drawing



7.3 Install Indoor Unit

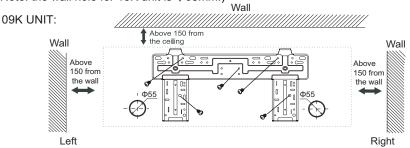
7.3.1 Installation of Mounting Plate

1. Mounting plate should be installed horizontally. As the water tray's outlet for the indoor unit is two-way type, during installation, the indoor unit should slightly slant to water tray's outlet for smooth drainage of condensate.

2.Fix the mounting plate on the wall with screws.

3.Be sure that the mounting plate has been fixed firmly enough to withstand about 60 kg. Meanwhile, the weight should be evenly shared by each screw.

(Note: the wall hole for 18K unit is Φ65mm.)



7.3.2 Drill Piping Hole

1. Make the piping hole (Φ 55) in the wall at a slight downward slant to the outdoor side. (Note: the wall hole for 18K unit is Φ 65mm.) 2. Insert the piping-hole sleeve into the hole to prevent the connection piping and wiring from being damaged when passing through the hole.

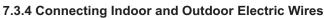
7.3.3 Installation of Drain Hose

1.Connect the drain hose to the outlet pipe of the indoor unit. Bind the joint with rubber belt.

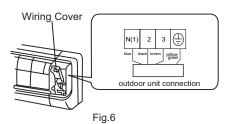
2.Put the drain hose into insulating tube.

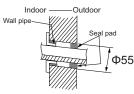
3.Wrap the insulating tube with wide rubber belt to prevent the shift of insulating tube. Slant the drain hose downward slightly for smooth drainage of condensate.

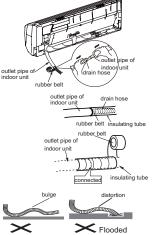
Note: The insulating tube should be connected reliably with the sleeve outside the outlet pipe. The drain hose should be slanted downward slightly, without distortion, bulge or fluctuation. Do not put the outlet in the water.



- 1.Open the front panel.
- 2.Remove the wiring cover as shown in Fig 6.
- 3. Make the power connection cord pass through the hole at the back of indoor unit.
- 4.Reinstall the cord anchorage and wiring cover.
- 5.Reinstall the front panel.







NOTE:

All wires between indoor and outdoor units must be connected by the qualified electric contractor.

- Electric wires must be connected correctly. Improper connection may cause malfunction.
- Tighten the terminal screws tightly.
- After tightening the screws, pull the wire slightly to confirm whether it's firm or not.
- Make sure that the electric connections are earthed properly to prevent electric shock.

• Make sure that all wiring connections are secure and the cover plates are reinstalled properly. Poor installation may cause fire or electric shock.

7.3.5 Installation of Indoor Unit

•The piping can be output from right, right rear, left or left rear.

1. When routing the piping and wiring from the left or right side of indoor unit, cut off the

tailings from the chassis when necessary(As shown in Fig.7)

(1) Cut off tailing 1 when routing the wiring only;

(2) Cut off tailing 1 and tailing 2 when routing both the wiring and piping.

2. Take out the piping from body case; wrap the piping,

power cords, drain hose with the tape and then make

them pass through the piping hole. (As shown in Fig.8)

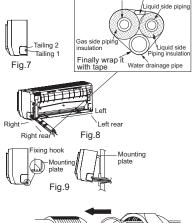
3.Hang the mounting slots of the indoor unit on the upper hooks of the mounting plate and check if it is firm enough. (As shown in Fig.9)

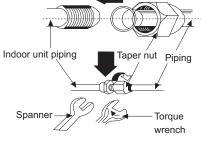
4. The installation site should be 250cm or more above the floor.

7.3.6 Installation of Connection Pipe

 Align the center of the pipe flare with the related valve.
Screw in the flare nut by hand and then tighten the nut with spanner and torque wrench by referring to the following:

Tube diameter	Tightening torque,approximate(N·m)
Ф6.35(1/4")	14~18N·m(140-180kgf.cm)
Ф9.52(3/8")	34~42N·m(340-420kgf.cm)
Ф12.7(1/2")	49∼61N·m(490-610kgf.cm)
Ф15.88(5/8")	68∼82N·m(680-820kgf.cm)





NOTE: Connect the connection pipe to indoor unit at first and then to outdoor unit. Handle piping bending with care. Do not damage the connection pipe. Ensure that the joint nut is tightened firmly, otherwise, it may cause leakage.

7.4 Check after Installation and Operation Test

7.4.1 Check after Installation

Possible malfunction
The unit may drop, shake or emit noise.
It may cause insufficient cooling(heating) capacity
It may cause condensation and dripping.
It may cause condensation and dripping.
It may cause electric malfunctionor damage the product.
It may cause electric malfunction or damage the part.
It may cause electrical leakage.
It may cause electric malfunctionor damage the part.
It may cause insufficient cooling(heating) capacity.
The refrigerant capacity is not accurate.

7.4.2 Operation Test

1.Before Operation Test

(1)Do not switch on power before installation is finished completely.

(2)Electric wiring must be connected correctly and securely.

(3)Cut-off valves of the connection pipes should be opened.

(4)All the impurities such as scraps and thrums must be cleared from the unit.

2.Operation Test Method

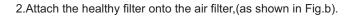
(1)Switch on power and press "ON/OFF"?button on the remote controller to start operation.

(2)Press MODE button to select the COOL, HEAT (Not available for cooling only unit), FAN to check whether the operation is normal or not.

7.5 Installation and Maintenance of Healthy Filter

7.5.1 Installation of Healthy Filter

1.Lift up the front panel from its two ends, as shown by the arrow direction, and then remove the air filter.(as shown in Fig.a)



3.Install the air filter properly along the arrow direction in Fig.c, and then close the panel.

7.5.2 Cleaning and Maintenance

Remove the healthy filter and reinstall it after cleaning according to the installation instruction. Don't use brush or hard things to clean the filter. After cleaning, be sure to dry it in the shade.

7.5.3 Service Life

The general serive life for the healthy filter is about one year under normal condition. As for silver ion filter, it is invalid when its surface becomes black (green).

•This supplementary instruction is provided for reference to the unit with healthy filter. If the graphics provided herein is different from the actual product, please refer to the atual product. The quantity of healthy filters is based on the actual delivery.

