








INSTALLATION AND REPAIR GUIDE

Split wall-Mounted Air Conditioner



This Split Air Conditioner is designed for versatile application :



	Cooling
	Dehumidifying
	Heating
	Filtration
	Ventilation

OPERATING TEMPERATURE RANGE: 5°F ~ 115°F

IMPORTANT NOTICE :

- This air conditioner must be grounded to protect against electrical shock.
- **I n s t a l l a t i o n** of the air conditioner must be performed by an experienced air conditioning installer, observing good refrigeration practice.
- Electrical connections and power cord replacement should only be made by authorized electricians and in accordance with electrical regulations and local codes . The appliance must be positioned so that the plug is accessible.
- **F a i l u r e** to comply with the manufacturer's installation and operation installation and operation instructions could affect the performance of the air conditioner and the validity of the warranty.

SELECTING THE MOUNTING POSITION

Decide the mounting position with the customer as follows:

INDOOR UNIT

- (1) Install the indoor unit level on a strong wall which is not subject to vibration.
- (2) The inlet and outlet ports should not be obstructed : the air should be able to blow all over the room.
- (3) Do not install the unit where it will be exposed to direct sunlight .
- (4) Install the unit where connection to the outdoor unit is easy.
- (5) Install the unit where the drain pipe can be easily installed.
- (6) Take servicing, etc. into consideration and leave the spaces shown in figure . Also install the unit where the filter can be removed.



WARNING

Install at a place that can withstand the weight of the indoor and outdoor units and install positively so that the units will not topple or fall.



CAUTION

- (1) Do not install where there is the danger of combustible gas leakage.
- (2) Do not install near heat sources.
- (3) If children under 10 years old may approach the unit , take preventive measures so that they cannot reach the unit.

INSTALLATION DIAGRAM OF INDOOR UNITS

Wall-mounted Type

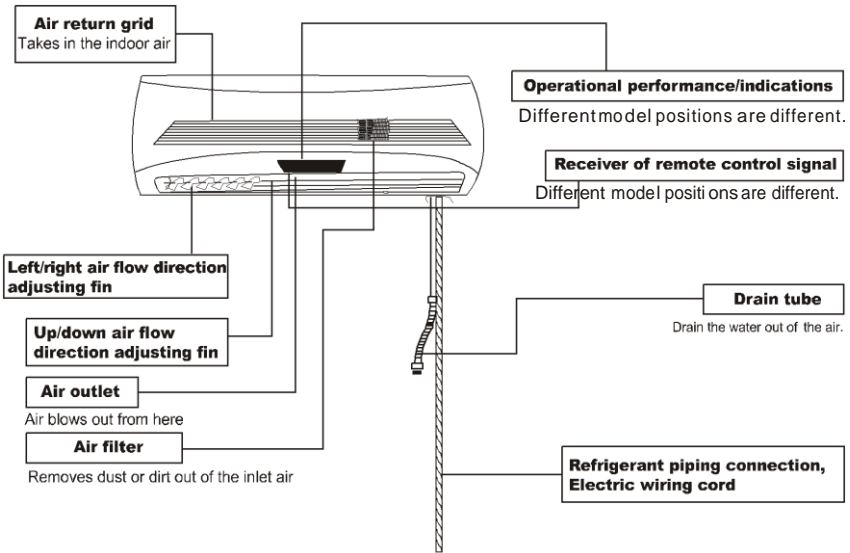


Fig 1

Indoor unit

1. Firmly install it on the rigid wall.
2. The air intake and outlet vents should be unblocked , and the cold air can be blown to the whole room.
3. Away from thermal sources or sources of combustible gases .
4. Not exposed to direct sunlight.
5. Enough margin should be left around the unit to facilitate maintenance.

(Fig 2 shows the recommended minimum dimensions)

Wall hanging plate

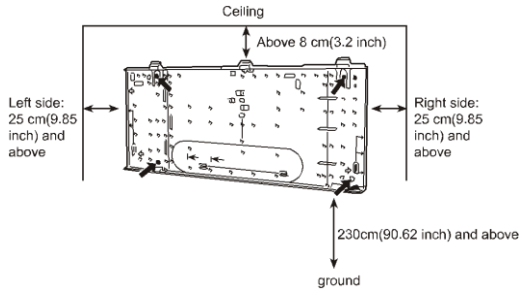


Fig 2

Installation of wall-mounting plate

Fix the wall-mounting plate firmly on the wall with screws. Make sure of the leveling of the place. Slanted wall-mounting plate might jeopardize the smooth discharge of condensed water.

1. Drill holes on the wall

Drill holes places slightly below the wall-mounting plate, with hole diameter of 65mm and the outer edge of the hole 5-10mm lower (Fig3) so that the condensed water can smoothly flow out. Cut the wall penetrating pipe to proper length according to the thickness of the wall (3-5mm longer than the wall thickness) and insert the pipe as indicated in Fig 4.

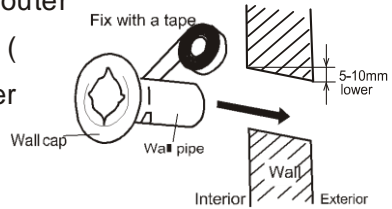


Fig 3

2. Installation of drain pipe

Install the pipelines of the indoor unit in accordance with the direction of the wall holes.

Wrap tightly the drain pipe and the pipelines with tape.

Make sure that the drain pipe is underneath the pipelines, (Fig 4) (When the drain pipe passes the room interior, some

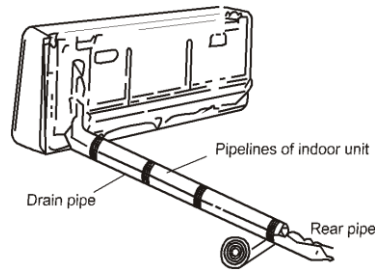


Fig 4

condensed water might occur to its surfaces if the humidity is very high).

3. Installation of indoor unit pass the connection wires, connecting pipelines and drain pipe through the wall hole. Hang the indoor unit

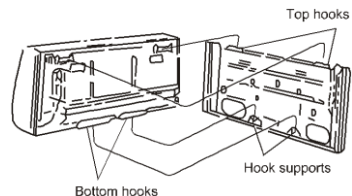


Fig 5

on the hooks at the top of the wall-mounting plate so that the hooks at the bottom of the indoor unit match the hooks of the wall-mounting plate. (Fig 5)

Inspections:

- a. See if the hooks at the top and bottom are firmly fixed.
- b. See if the position of the master unit is properly leveled.
- c. The drain pipe should not curve upward(Fig 6).
- d. The drain pipe should be at the lower part of the wall pipes(Fig 6).

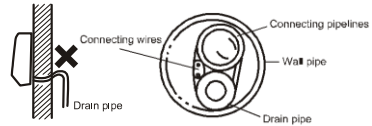


Fig 6

- 4. Wire connections of indoor and outdoor units connect the wires of the indoor and outdoor units properly according to the schematic diagram.

Note: Do not connect the wires in a wrong way , otherwise electric malfunctions will be caused and ever damages to the units will occur.

If the supply cord is damaged, it must be replaced by the manufacture or its service agent or a similarly qualified person in order to avoid a hazzard .

The plug shall be accessible after installed the appliance.

Installation of the connection pipe

- 1. Align the center of the piping flare with the relevant valve.
- 2. Screw in the flare nut by hand and then tighter the nut with spanner and torque wrench refer to the diagram at right .

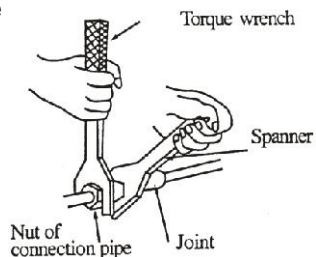


Fig 7

Note: Exceeding tightening torque will damage the flare surface.

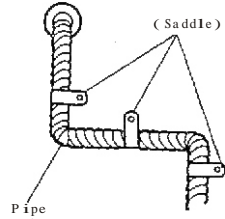
Tightening torque table

Hex nut diameter	Tightening torque(N.m)
\varnothing 6mm(1/4")	15-20
\varnothing 9.5mm(3/8")	31-35
\varnothing 12mm(1/2 ")	50-55

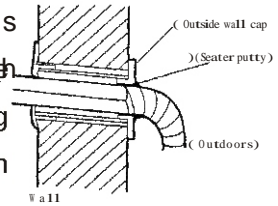
FINISHING

1. Insulate between pipes.

- For rear, right, and between piping, overlap the connection pipe heat insulation and indoor unit pipe heat insulation and bind them with vinyl tape so that there is no gap.



- For left and left rear piping, but the connection pipe heat insulation and indoor unit pipe heat insulation together and bind them with vinyl tape so that there is no gap.

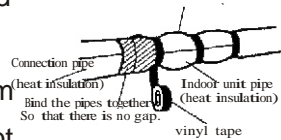


- For left and left rear piping, bundle the piping and drain hose together by wrapping them with cloth tape over the range with which they fit into the rear piping hosing section.

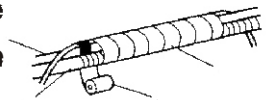
Overlap the insulation

2. Temporarily fasten the connection cord along the connection pipe with vinyl tape. (

Wrap to about 1/3 the width of the tape from the bottom of the pipe so that water does not enter.)



3. Fasten the connection pipe to the outside wall with a saddle etc.



4. Fill the gap between the outside wall pipe hole and the pipe with sealer so that water and wind cannot blow in.

Pipe

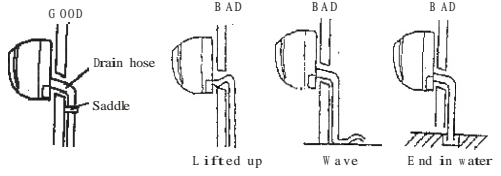
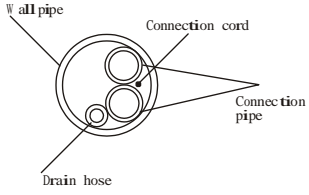
Wrap with cloth tape

Drain hose

Cloth tape

5. Fasten the drain hose to the outside wall, etc.

For connection from the left rear Check the following: View from indoors



FRONT PANEL REMOVAL AND INSTALLATION

AIR CLEANING UNIT REMOVAL

1. Open the intake grille ,and then remove the right air filter.
2. Pull the air cleaning unit grip in the direction of the arrow and remove the unit .

AIR CLEANING UNIT INSTALLATION

1. Open the intake grille, and then insert the dust collection unit into the indoor unit.
2. Install the right air filter, and then close the intake grille.

THE INTAKE GRILLE REMOVAL

1. Open the intake grille.
2. Pull down the knob.
3. Lift the intake grille upward, until the axle at the top of the intake grille is removed .

THE INTAKE GRILLE INSTALLATION

1. The fixing axle of the intake grille is installed on the Panel.
2. Lay down the intake grille.

THE FRONT PANEL REMOVAL

1. Remove intake grille (Reference the intake grille removal.)
2. Remove four screws.
3. The thumb is hung on the lower part as shown in the figure , and it pulls to the front , pushing [∇]mark,and bottom hooks (two position)is removed from wall hook bracket.
4. The front panel bottom is pulled to the front, and bottom hooks is removed indoor unit.
5. The front panel is pulled to the front , raising the upper

surface, and a front panel is removed.

THE FRONT PANEL INSTALLATION

1. Firstly, fit the lower part of the front panel, and insert top and bottom hooks.(Three top sides, six bottom sides)
2. Four screws is attached.
3. The intake grille is attached.