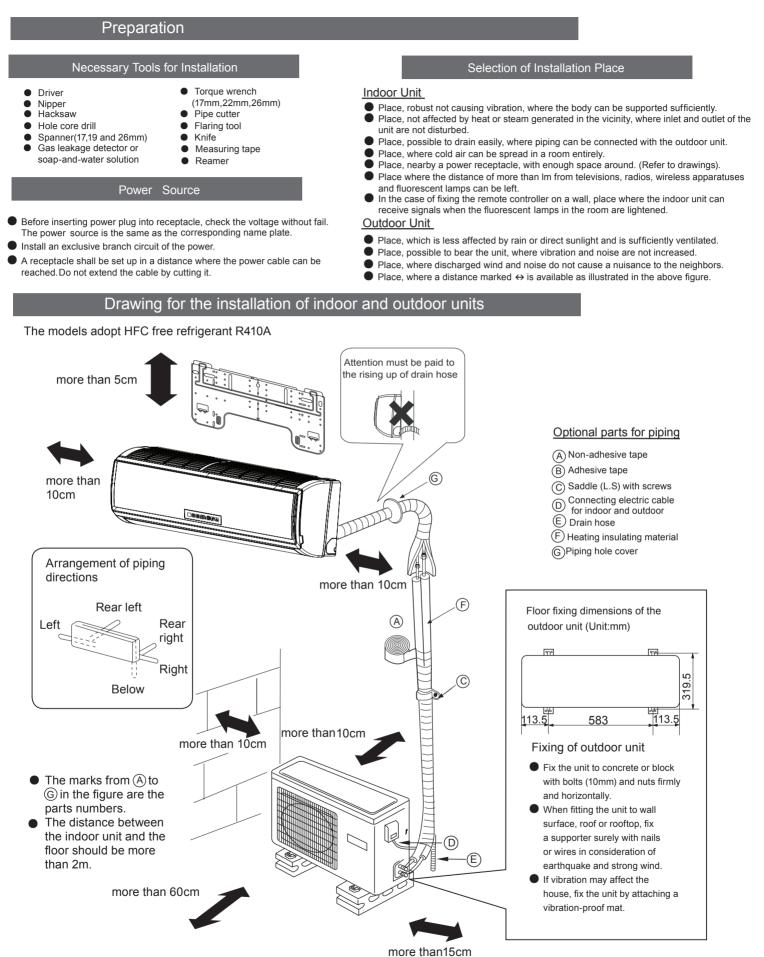
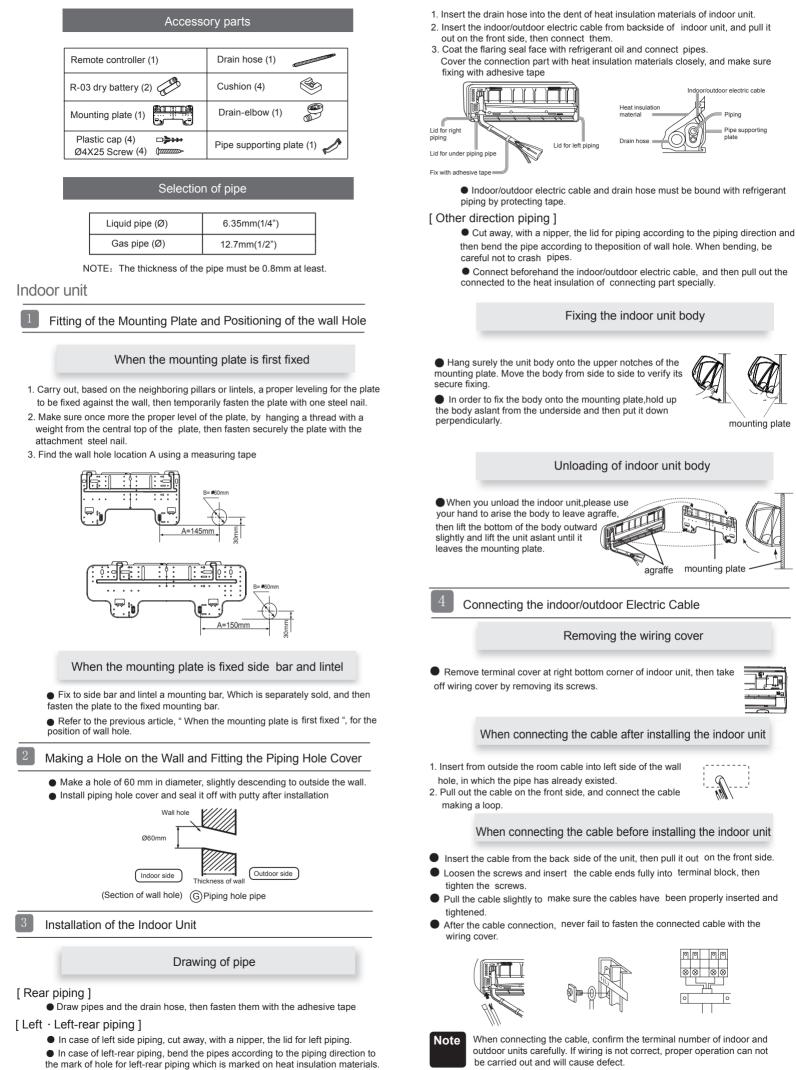
Installation Manual of Room Air Conditioner



Please be subject to the actual product purchased, the above picture is just for your reference.

Read this manual before installation Explain sufficiently the operating means to the user according to this manual

NO.0010506358



Connecting the indoor/outdoor Electric Cable Removing the wiring cover Remove terminal cover at right bottom corner of indoor unit, then take When connecting the cable after installing the indoor unit

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- 1. Insert from outside the room cable into left side of the wall

mounting plate

2. Pull out the cable on the front side, and connect the cable



outdoor electric cable

Piping

Pipe supporting

mounting plate

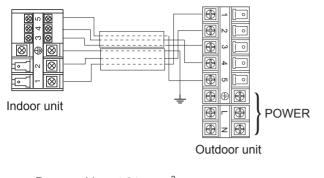
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C

Heat insulation

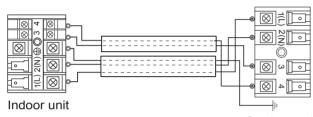
- When connecting the cable before installing the indoor unit
- Insert the cable from the back side of the unit, then pull it out on the front side.
- Loosen the screws and insert the cable ends fully into terminal block, then
- Pull the cable slightly to make sure the cables have been properly inserted and
- After the cable connection, never fail to fasten the connected cable with the

outdoor units carefully. If wiring is not correct, proper operation can not be carried out and will cause defect.



Power cable: > 3G2.5mm² Connecting wiring:≥6G0.75mm²

> HSU-22HEA03/R2 HSU-22HRA03/R2



Outdoor unit

Power cable: ≥3G2.5mm² Connecting wiring: ≥3G1.5mm² (For: L N ⊕)+2x0.75mm²

HSU-18RM03/R2 HSU-18HEA03/R2-I HSU-18HRA103/R2

- 1. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person. The type of connecting wire is H05RN-F or H07RN-F
- 2. If the fuse on PC board is broken please change it with the type of T. 3.15A/250V
- 3. The wiring method should be in line with the local wiring standard.
- After installation, the power plug should be easily reached.
 A breaker should be incorporated into fixed wiring. The breaker should be all-pole switch and the distance between its two contacts should be not less than 3mm.

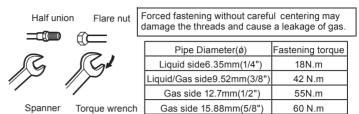
Outdoor unit

Installation of Outdoor Unit

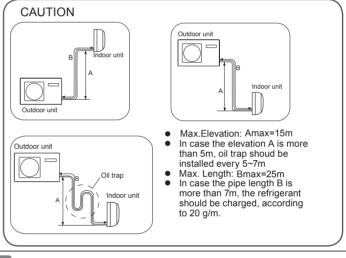
Install according to Drawing for the installation of indoor and outdoor units

Connection of pipes

- To bend a pipe, give the roundness as large as possible not to crush the pipe, and the bending radius should be 30 to 40 mm or longer.
- Connecting the pipe of gas side first makes working easier.
- The connection pipe is specialized for R410A.



Be careful that matters, such as wastes of sands, etc. shall not enter the pipe. The standard pipe length is 5m. If it is over 7m, the function of the unit will be affected. If the pipe has to be lengthened, the refrigerant should be charged, according to 20 g/m. But the charge of refrigerant must be conducted by profes-sional air conditioner engineer. Before adding additional refrigerant, perform air purging from the refrigerant pipes and indoor unit using a vacuum pump, then charge additional refrigerant.



Connection

Use the same method on indoor unit. Loosen the screws on terminal block and insert the plugs fully into terminal block, then tighten the screws

- Insert the cable according to terminal number in the same manner as the indoor unit
- If wiring is not correct, proper operation can not be carried out and controller may be damaged
- Fix the cable with a clamp.

Attaching Drain-Elbow

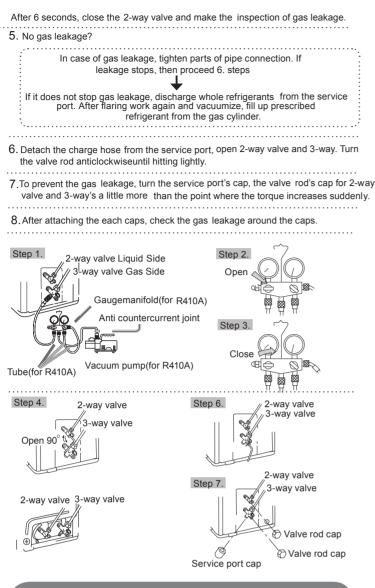
If the drain-elbow is used please attach it as figure. (Note: Only for heat pump unit.)



Purging Method: To use vacuum pump

- 1. Detach the service port's cap of 3-way valve, the valve rod's cap for 2-way valve and 3-way's, connect the service port into the projection of charge hose (low) for gaugemanifold. Then connect the projection of charge hose (center) for gaugemanifold into vacuum pump.
- 2. Open the handle at low in gaugemanifold, operate vacuum pump. If the scalemoves of gause (low) reach vacuum condition in a moment, check 1. again.
- 3. Vacuumize for over 15min.And check the level gauge which should read -0.1MPa (76 cm Hg) at low pressure side. After the completion of vacuumizing, close the handle 'Lo' in gaugemanifold and stop the operation of the vacuum pump. Check condition of the scale and hold it for 1-2min. If the scale-moves back in spite of tightening, make flaring work again, the return to the beginning of ${\bf 3}$.

4. Open the valve rod for the 2-way valve to an angle of anticlockwise 90 degrees.



CAUTION

- If the refrigerant of the air conditioner leaks, it is necessary to discharge all the refrigerant. Vacuumize first, then charge the liquid refrigerant into air conditioner according to the amount marked on the name plate.
- Please do not let other cooling medium, except specified one (R410A), or air enter into the cooling circulation system. Otherwise, there will be abnormal high pressure in the system to make it crack and lead to personal injuries.

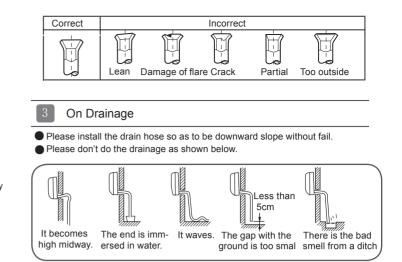
Power Source Installation

- The power source must be exclusively used for air conditioner. (Over I0A)
- In the case of installing an air conditioner in a moist place, please install an earth leakage breaker
- For installation in other places, use a circuit breaker as far as possible.

Cutting and Flaring Work of Piping

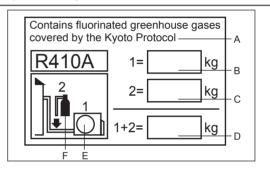
Pipe cutting is carried out with a pipe cutter and burs must be removed. After inserting the flare nut, flaring work is carried out.

Flare tool for R410A Conventional flare tool clutch-type(Rigid-type) Wing-nut type (Imperial-type) Clutch-type 0~0.5mm 1.5~2.0mm 1.0~1.5mm 1.Cut pipe 2.Remove burs Flare tooling die ↓A L 3.Insert the flare nut 4.Flare pipe



- Please pour water in the drain pan of the indoor unit, and confirm that drainage is carried out surely to outdoor.
- In case that the attached drain hose is in a room, please apply heat insulation to it without fail

Refrigerant charge label



This product contains fluorinated greenhouse gases covered by the Kyoto Protocol. Do not vent into the atmosphere. Refrigerant type:R410A

GWP* value:1975 GWP=global warming potential

- Please fill in with indelible ink,
- the factory refrigerant charge of the product
- the additional refrigerant amount charged in the field and • 2
- 1+2 the total refrigerant charge

on the refrigerant charge label supplied with the product. The filled out label must be adhered in the proximity of the product charging port (e.g. onto the inside of the stop value cover) A contains fluorinated greenhouse gases covered by the Kyoto Protocol

- B factory refrigerant charge of the product: see unit name plate
- C additional refrigerant amount charged in the field
- D total refrigerant charge
- outdoor unit Е
- F refrigerant cylinder and manifold for charging

Check for Installation and Test Run

Please kindly explain to our customers how to operate through the instruction manual.

Check Items for Test Run

□ Put check mark √ in boxes

- Gas leak from pipe connecting?
- Heat insulation of pipe connecting?
- Are the connecting wirings of indoor and outdoor firmly
- inserted to the terminal block?
- Is the connecting wiring of indoor and outdoor firmly fixed?
- Is drainage securely carried out? Is the earth line securely connected?
- Is the indoor unit securely fixed?
- Is power source voltage abided by the code?
- Is there any noise?
- Is the lamp normally lighting?
- Are cooling and heating (when in heat pump) performed normally?
- Is the operation of room temperature regulator normal?

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