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You can read the recommendations in the user guide, the technical guide or the installation guide for HAIER HSU-12HC03/R2. You'll find the answers to all your questions on the HAIER HSU-12HC03/R2 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HAIER HSU-12HC03/R2  
User guide HAIER HSU-12HC03/R2  
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## Installation Manual of Room Air Conditioner

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

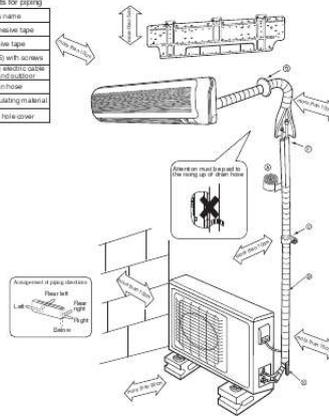
### Necessary Tools for Installation

- |                        |                                    |  |                    |
|------------------------|------------------------------------|--|--------------------|
| 1 Driver               | 5 Spanner (14, 17, 19 and 24 mm)   | 9 Knife  | 12 Measuring tape  |
| 2 Hack saw             | 6 Torque wrench (17mm, 22mm, 24mm) | 10 Nipper  | 13 Resamer         |
| 3 Hole core drill      | 7 Pipe cutter                      | 11 Gas leakage detector or soap-and-water solution | 14 Refrigerant oil |
| 4 Hexagon wrench (5mm) | 8 Flaring tool                     |  |                    |

No.	Accessory parts	Quantity
①	Remote controller	1
②	AAA dry battery	2
③	Wall anchor	1
④	Mounting plate	1
⑤	Drain hose	1
⑥	2x2x25 Plastic cap	4
⑦	Cushion	4
⑧	Drain elbow	1

### Drawing for the installation of indoor and outdoor units

Mark	Parts name
ⓐ	Non-adhesive tape
ⓑ	Adhesive tape
ⓒ	Galvanized ⓐ with screws
ⓓ	Connecting electric cable for indoor and outdoor
ⓔ	Downspout
ⓕ	Heating/insulating material
ⓖ	Piping hole cover



- ※ The marks from (a) to (g) in the figure are the parts numbers.
- ※ The distance between the indoor unit and the floor should be more than 2m.

NO.0010513968



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**Manual abstract:**

Necessary Tools for Installation 1.Driver 2.Hacksaw 3.Hole core drill 4.Hexagon wrench (5mm) 5.Spanner(14,17,19 and 24 mm) 6.Torque wrench(17mm,22mm,24mm) 7.Pipe cutter 8.Flaring tool 9.Knife 10.

Nipper 11.Gas leakage detector or soap-and-water solution 12.Measuring tape 13.Reamer 14.Refrigerant oil Accessory parts No.

Accessory parts Remote controller Number of articles Drawing for the installation of indoor and outdoor units Optional parts for piping Mark R-03 dry battery Parts name Non-adhesive tape Adhesive tape Saddle(L.S) with screws Mounting plate Connecting electric cable for indoor and outdoor Drain hose Drain hose 4X25 Screw Plastic cap Heating insulating material Piping hole cover more than 10cm more than 10cm Cushion more than 5cm Drain-elbow Attention must be paid to the rising up of drain hose more than 10cm Arrangement of piping directions more than Rear left Left Rear right Right Below 10cm more than 15cm 60cm than more The marks from A to G in the figure are the parts numbers. The distance between the indoor unit and the floor should be more than 2m. NO.0010513988 319.

5 113.5 583 113.5 140 500 140 Floor fixing dimensions of the outdoor unit (Unit:mm) Floor fixing dimensions of the outdoor unit (Unit:mm)

HSU-22HC03/R2(DB) HSU-18HC03/R2(DB) HSU-12HC03/R2(DB) HSU-09HC03/R2(DB) Fixing of outdoor unit Fix the unit to concrete or block with bolts( 10mm) and nuts firmly and horizontally. When fitting the unit to wall surface, roof or rooftop, fix a supporter surely with nails or wires in consideration of earthquake and strong wind. If vibration may affect the house, fix the unit by attaching a vibration-proof mat. Indoor Unit Selection of Installation Place Outdoor Unit Place, robust not causing vibration, where the body can be supported sufficiently. Place, not affected by heat or steam generated in the vicinity, where inlet and outlet of the unit are not disturbed. Place, possible to drain easily, where piping can be connected with the outdoor unit. Place, where cold air can be spread in a room entirely. Place, nearby a power receptacle, with enough space around.

(Refer to drawings). Place where the distance of more than 1m from televisions, radios, wireless apparatuses and fluorescent lamps can be left. In the case of fixing the remote controller on a wall, place where the indoor unit can receive signals when the fluorescent lamps in the room are lightened. Place, which is less affected by rain or direct sunlight and is sufficiently ventilated. Place, possible to bear the unit, where vibration and noise are not increased. @@@@The power source is the same as the corresponding name plate. Install an exclusive branch circuit of the power. @@Do not extend the cable by cutting it.

Selection of pipe To this unit, both liquid and gas pipes shall be insulated as they become low temperature in operation. Use optional parts for piping set or pipes covered with equivalent insulation material.

The thickness of the pipe must be 0.8mm at least. For 09 12 For 18 22 6.35mm(1/4") 12.7mm(1/2") Liquid pipe Gas pipe 6.

35mm(1/4") 9.52mm(3/8") 2 256 Indoor unit 1.Fitting of the Mounting Plate and Positioning of the wall Hole When the mounting plate is first fixed 1.Carry out, based on the neighboring pillars or lintels, a proper leveling for the plate to be fixed against the wall, then temporarily fasten the plate with one steel nail. 2.

Make sure once more the proper level of the plate, by hanging a thread with a weight from the central top of the plate, then fasten securely the plate with the attachment steel nail. 3. Find the wall hole location Amm using a measuring tape 150mm 70mm Thread Weight Amm Bmm Holes for fixing the mounting plate HSU-09HC03/R2(DB) HSU-12HC03/R2(DB) HSU-18HC03/R2(DB) HSU-22HC03/R2(DB) 145 150 60 70 Fit the level line When the mounting plate is fixed side bar and lintel Fix to side bar and lintel a mounting bar, Which is separately sold, and then fasten the plate to the fixed mounting bar. Refer to the previous article, " position of wall hole. When the mounting plate is first fixed ", for the 2.Making a Hole on the Wall and Fitting the Piping Hole Cover Make a hole of Bmm in diameter, slightly descending to outside the wall. Install piping hole cover and seal it off with putty after installation Indoor side Wall hole Outdoor side Thickness of wall Bmm (Section of wall hole) Piping hole pipe 3 Indoor unit 3.Installation of the Indoor Unit Drawing of pipe Rear piping Draw pipes and the drain hose, then fasten them with the adhesive tape Left Left-rear piping In case of left side piping, cut away, with a nipper, the lid for left piping. In case of left-rear piping, bend the pipes according to the piping direction to the mark of hole for left-rear piping which is marked on heat insulation materials. 1.

Insert the drain hose into the dent of heat insulation materials of indoor unit. 2. Insert the indoor/outdoor electric cable from backside of indoor unit, and pull it out on the front side, then connect them. 3. Coat the flaring seal face with refrigerant oil and connect pipes. Cover the connection part with heat insulation materials closely, and make sure fixing with adhesive tape Heat insulation material Piping Drain hose Lid for right piping Lid for under piping pipe Lid for left piping Indoor/outdoor electric cable Fix with adhesive tape Indoor/outdoor electric cable and drain hose must be bound with refrigerant piping by protecting tape. Other direction piping Cut away, with a nipper, the lid for piping according to the piping direction and then bend the pipe according to the position of wall hole. When bending, be careful not to crash pipes. Connect beforehand the indoor/outdoor electric cable, and then pull out the connected to the heat insulation of connecting part specially. Fixing the indoor unit body Hang surely the unit body onto the upper notches of the mounting plate. Move the body from side to side to verify its secure fixing. @@@@2. @@@@1. @@The type of connecting wire is H05RN-F or H07RN-F. 2.

@@3.15A/250V. 3. The wiring method should be in line with the local wiring standard. 4.

After installation, the power plug should be easily reached. 5. A breaker should be incorporated into fixed wiring. @@@@shall not enter the pipe. The standard pipe length is 5m. If it is over 5m, the function of the unit will be affected. @@@@@@@@If wiring is not correct, proper operation can not be carried out and controller may be damaged. Fix the cable with a clamp. 4.Attaching Drain-Elbow If the drain-elbow is used, please attach it as figure.

Note: Only for heat pump unit. Drain hose 6 Outdoor unit 2-way valve 6.35mm(1/4") 6.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.



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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 scale-moves of gauge (Low) reach vacuum condition in a moment, check 1 again. Tube(for R410A) Liquid Side 3-way valve 12.7mm(1/2") Gas Side Gaugemanifold(for R410A) Anti countercurrent joint Vacuum pump(for R410A) Open 3 Vacuumize for over 15min. And check the level gauge which should read -0.

1 MPa (-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 the 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 3. 4 Open the valve rod for the 2-way valve to an angle of anticlockwise 90 degrees.

After 6 seconds, close the 2-way valve and make the inspection of gas leakage. Open Close 2-way valve 3-way valve 90 O 5 No gas leakage? In case of gas leakage, tighten parts of pipe connection. If leakage stops, then proceed steps. @@@@Turn the valve rod anticlockwise until hitting lightly. 7 To prevent the gas leakage, turn the service port's cap, the valve rod's cap for 2-way valve and 3-way's a little more than the point where the torque increases suddenly.

8 After attaching the each caps, check the gas leakage around the caps. CAUTION: 1.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. 2.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 .



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