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 2.Hacksaw 3.Hole core drill 4.Spanner(17,19 and 26mm)

5.Torque wrench(17mm,22mm,26mm) 6.Pipe cutter 7.Flaring tool 8.Knife

9.Nipper 10.Gas leakage detector or soap-and-water solution 12.Reamer

11.Measuring tape

Drawing for the installation of indoor and outdoor units

	Accessory parts			
No.	Accessory parts	Number of articles		
1	Remote controller	1	Op	otional parts for piping
2	<u>P</u>	0	Mark	Parts name
	R-03 dry battery	2	A	Non-adhesive tape
			B	Adhesive tape
(3)		1	©	Saddle(L.S) with screws
	Mounting plate		D	Connecting electric cable for indoor and outdoor
(4)		1	Ē	Drain hose
	Drain hose		Ē	Heating insulating material
5	(↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	6	G	Piping hole cover
6	(hilline) □ ¢4X25 Screw Plastic cap	4		
\bigcirc	Drain-elbow	1		
8	Cover	1		Arrangement of piping directions Rear left Left Rear
9	Cushion	4		Left Rear right Right Below
10	Pipe supporting plate	1		
(1)	Connecting cable	1		

Note:Cooling only units don't have Drain-elbow



* The marks from Ato G in the figure are the parts numbers.

※ The distance between the indoor unit and the floor should be more than 2m.



- 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.

	For 07 09 108	For 12 18 138	For 24
Liquid pipe (ϕ)	6.35mm(1/4")	6.35mm(1/4")	9.52mm(3/8")
Gas pipe (ϕ)	9.52mm(3/8")	12.7mm(1/2")	15.88mm(5/8")

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 A using a measuring tape



- Make a noie of 60 mm in diameter, slightly descending to outside the wall.
- Install piping hole cover and seal it off with putty after installation



(Section of wall hole) G Piping hole pipe

Indoor unit

Connecting the indoor/outdoor Electric Cable

Removing the wiring cover

• Remove terminal cover at right bottom corner of indoor unit, then take off wiring cover by removing its screws.

When connecting the cable after installing the indoor unit

1. Insert from outside the room cable into left side of the wall hole, in which the pipe has already existed.

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

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 tighten the screws.
- Pull the cable slightly to make sure the cables have been properly inserted and tightened.
- After the cable connection, never fail to fasten the connected cable with the wiring cover.
 Note: When connecting the cable, confirm the terminal number of indoor and outdoor units carefully. If wiring is not correct, proper operation can not be carried out and will cause defect.
 - 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 H05/07RN-F or 245IEC57(YZW).
 - 2. If the fuse on PC board is broken please change it with the type of T. 3.15A/250V. If the fuse of outdoor unit on PC board is broken, please change it with the type of T. 25A/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. The breaker should be all-pole switch and the distance between its two contacts should be not less than 3mm.







Outdoor unit

Outdoor unit

1.Connection of pipes

- To bend a pipe, give the roundness as large as possible not to crush the pipe
- Connecting the pipe of gas side first makes working easier.
- The max vertical distance between the indoor unit and the outdoor unit is 5 m.



Be careful that matters, such as wastes of sands, etc. shall not enter the pipe.

2.Attaching Drain-Elbow

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

3. Purging Method:

Push the air out of the indoor unit and piping as followes:

• Tighten the caps on the valves with specified torque.

	Tighten torque N.m		
Valve rod	7-9		
Valve cap	20-25		

• When connecting pipe exceeds 5 meters, 20g or 60g(only for 22k 24k) refrigerant shall be added per exceeding meter. Charge according to the following list.

	for 5k 7k 9k 10k 12k 13k 18k				for 22k	24k		
Piping length	5m	7m	10m	Piping length	5m	7m	10m	20m
Additional amount	No need	40g	100g	Additional amount	No need	120g	300g	900g



Forced fastening without may damage the threads leakage of gas.	
Pipe Diameter (の)	Fastening torque

Pipe Diameter (ϕ)	Fastening torque
Liquid side 6.35mm(1/4")	18N.m
Liquid side 9.52mm(3/8")	40N.m
Gas side 9.52mm(3/8")	40N.m
Gas side 12.7mm(1/2")	50N.m
Gas side 15.88mm(5/8")	60N.m

