

AIR CONDITIONER

- Please read this installation manual completely before installing the product.
- Installation work must be performed in accordance with the national wiring standards by authorized personnel only.
- Please retain this installation manual for future reference after reading it thoroughly.

TYPE: WALL MOUNTED

P/NO: MFL62886002

CONTENTS

Installation Required Tools Required Parts Requirements Safety Precautions......3 ☐ Some pieces of type "A" screws □ Level gauge □ Connecting cable □ Screw driver Introduction......6 ☐ Installation guide map □ Electric drill Symbols used in this manual.......6 ☐ Pipes: Gas side ☐ Hole core drill(ø70mm) Liquid side Features6 ☐ Horizontal meter □ Insulation materials ☐ Flaring tool set ☐ Additional drain pipe Installation7 ☐ Specified torque wrenches (Outer diameter15.5mm) 1.8kg.m, 4.2kg.m, 5.5kg.m, Installation parts......7 ☐ Some pieces of type "B" screws 6.6kg.m Installation tools7 (different depending on model No.) ☐ Some pieces of type "C" screws ☐ Spanner......Half union Installation map......8 Selecting the best location8 A glass of water ☐ Hexagonal wrench(4mm) Fixing Installation Plate9 Drilling a hole in the wall9 ☐ Gas-leak detector Flaring work10 Vacuum pump Installation of indoor unit11 ☐ Gauge manifold Owner's manual Connecting the cables16 □ Thermometer Checking the drainage17 ☐ Remote controller holder Test running18

Safety Precautions

To prevent the injury of the user or other people and property damage, the following instructions must be followed.

- Be sure to read before installing the air conditioner.
- Be sure to observe the cautions specified here as they include important items related to safety.
- Incorrect operation due to ignoring instruction will cause harm or damage. The seriousness is classified by the following indications.

This symbol indicates the possibility of death or serious injury.

ACAUTION

This symbol indicates the possibility of injury or damage to properties only.

■ The meanings of the symbols used in this manual are as shown below.

\bigcirc	Be sure not to do.
•	Be sure to follow the instruction.

▲ WARNING

Don't use a power cord, a plug or a loose socket

■ Installation

electrical shock

Always perform grounding.

which is damaged.

- · Otherwise, it may cause a fire or an electrical shock
- For installation of the product, always contact the service center or a professional installation agency.
- · Otherwise, it may cause a fire. electrical shock, explosion or an injury.

Securely attach the electrical cover to indoor

· Otherwise, it may cause an

and pipe cover to outdoor unit.

 If the electrical part cover to indoor unit and pipe cover to outdoor unit are not attached securely, it could result in a fire or an electrical shock due to dust, water, etc.

Always install a current leakage breaker and a dedicated switching board.

· No installation may cause a fire or an electrical shock.

Do not keep or use flammable gases or combustibles near the air conditioner.

· Otherwise, it may cause a fire or failure of the product.

Ensure that an installation frame of the outdoor unit is not damaged due to use for a long time.

Do not disassemble or repair the product randomly.

· It may cause an injury or accident.

It will cause a fire or an electrical shock.

Do not install the product at a place where there is concern of falling down.

· Otherwise, it may result in personal injury.

Use caution when unpacking and installing.

· Sharp edges may cause an injury.

■ Operation -

Do not share the outlet with other appliances.

 It will cause an electrical shock or a fire due to heat generation.

Do not use the damaged power cord.

 Otherwise, it may cause a fire or an electrical shock.

Do not modify or extend the power cord randomly.

 Otherwise, it may cause a fire or an electrical shock.

Take care so that the power cord may not be pulled during operation.

 Otherwise, it may cause a fire or an electrical shock

Unplug the unit if strange sound, smell, or smoke comes from it.

Otherwise, it may cause an electrical shock or a fire.

Keep the flames away.

Otherwise, it may cause a fire.

Take the power plug out if necessary, holding the head of the plug and do not touch it with wet hands.

 Otherwise, it may cause a fire or an electrical shock

Do not use the power cord near the heating tools.

 Otherwise, it may cause a fire and an electrical shock.

Do not open the inlet of the indoor/outdoor unit during operation.

 Otherwise, it may cause an electrical shock and failure.

Do not allow water to run into electrical parts.

 Otherwise, it may cause the failure of machine or an electrical shock.

Hold the plug by the head when taking it out.

• It may cause an electrical shock and damage.

Never touch the metal parts of the unit when removing the filter.

 They are sharp and may cause an injury.

Do not step on the indoor/outdoor unit and do not put anything on it.

 It may cause an injury through dropping of the unit or falling down.

Do not place a heavy object on the power cord.

 Otherwise, it may cause a fire or an electrical shock.

When the product is submerged into water, always contact the service center.

 Otherwise, it may cause a fire or an electrical shock.

Take care so that children may not step on the outdoor unit.

 Otherwise, children may be seriously injured due to falling down.

ACAUTION

■ Installation

Install the drain hose to ensure that drain can be securely done.

· Otherwise, it may cause water leakage.

Always inspect gas leakage after the installation and repair of product.

Otherwise, it may cause the failure of product.

Install the product so that the noise or hot wind from the outdoor unit may not cause any damage to the neighbors.

· Otherwise, it may cause dispute with the neighbors.

Keep level parallel while installing the product.

· Otherwise, it may cause vibration or water leakage.

■ Operation -

Avoid excessive cooling and perform ventilation sometimes.

· Otherwise, it may do harm to your health.

Do not use the appliance for special purposes such as preserving animals vegetables, precision machine, or art articles.

· Otherwise, it may damage your properties.

Use a soft cloth to clean. Do not use wax. thinner, or a strong detergent.

 The appearance of the air conditioner may deteriorate, change color, or develop surface flaws.

Do not place obstacles around the flow inlet or outlet.

· Otherwise, it may cause the failure of appliance or an accident.

Introduction

Symbols used in this Manual



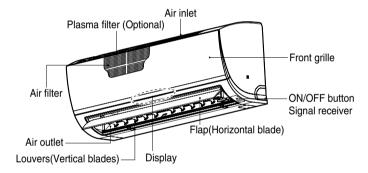
This symbol alerts you to the risk of electrical shock.



This symbol alerts you to hazards that may cause harm to the air conditioner.

This symbol indicates special notes.

Features



Installation

Read carefully, and then follow step by step.

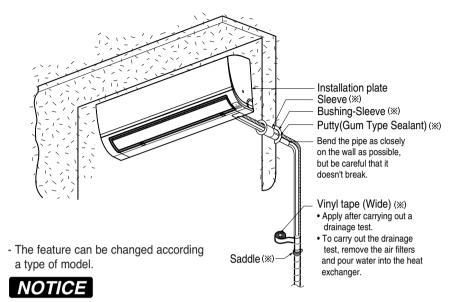
Installation Parts

Installation plate		Type "A" screw
The feature can be changed according a type of model.		
Type "B" screw	Type "C" screw	Remote control holder

Installation Tools

Figure	Name	Figure	Name
⊕	Screw driver		Multi-meter
	Electric drill	ريكي	Hexagonal wrench
	Measuring tape, Knife		Ammeter
	Hole core drill		Gas-leak detector
	Spanner		Thermometer, Level
	Torque wrench		Flaring tool set

Installation Map

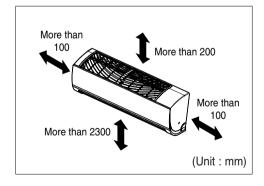


(*) You should purchase the installation parts.

Select the best Location

Indoor unit

- There should not be any heat or steam near the unit.
- 2. Select a place where there are no obstacles around of the unit.
- 3. Make sure that condensation drainage can be conveniently routed away.
- 4. Do not install near a doorway.
- Ensure that the interval between a wall and the left (or right) of the unit is more than 100mm. The unit should be installed as high as possible on the wall, allowing a minimum of 200mm from ceiling.
- Use a metal detector to locate studs to prevent unnecessary damage to the wall.

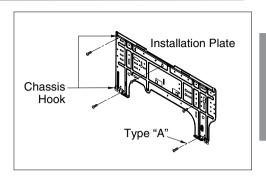


A CAUTION

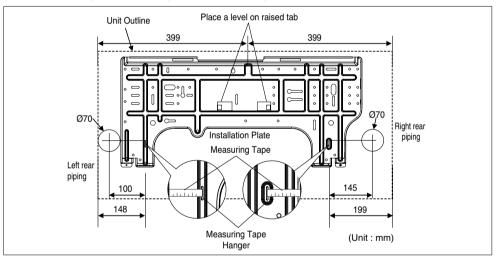
Install the indoor unit on the wall where the height from the floor is more than 2300mm.

Fixing Installation Plate

- 1. The wall you select should be strong and solid enough to prevent vibration
 - Mount the installation plate on the wall with type "A" screws. If mounting the unit on a concrete wall, use anchor bolts.
 - Mount the installation plate horizontally by aligning the centerline using Horizontal meter.

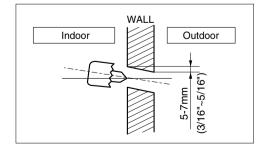


2. Measure the wall and mark the centerline. It is also important to use caution concerning the location of the installation plate. Routing of the wiring to power outlets is through the walls typically. Drilling the hole through the wall for piping connections must be done safely.



Drill a Hole in the Wall

· Drill the piping hole with a ø70mm hole core drill. Drill the piping hole at either the right or the left with the hole slightly slanted to the outdoor side.



Flaring Work

Main cause for gas leakage is due to defect of flaring work. Carry out correct flaring work in the following procedure.

Cut the pipes and the cable.

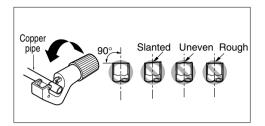
- 1. Use the piping kit accessory or the pipes purchased locally.
- 2. Measure the distance between the indoor and the outdoor unit.
- 3. Cut the pipes a little longer than measured distance.
- 4. Cut the cable 1500mm longer than the pipe length.

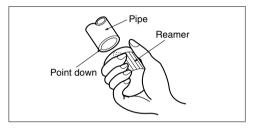
Burrs removal

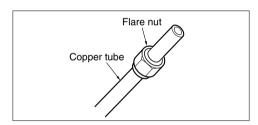
- Completely remove all burrs from the cut cross section of pipe/tube.
- While removing burrs put the end of the copper tube/pipe in a downward direction while removing burrs location is also changed in order to avoid dropping burrs into the tubing.

Putting nut on

 Remove flare nuts attached to indoor and outdoor unit, then put them on pipe/tube having completed burr removal.
 (not possible to put them on after finishing flare work)



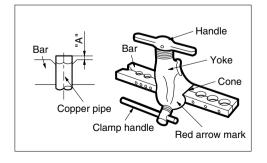




Flaring work

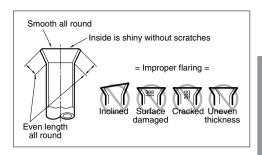
- 1. Firmly hold copper pipe in a bar with the dimension shown in below table.
- 2. Carry out flaring work with the flaring tool.

Outside diameter		А
mm	inch	mm
Ø6.35	1/4	1.1~1.3
Ø9.52	3/8	1.5~1.7
Ø12.7	1/2	1.6~1.8
Ø15.88	5/8	1.6~1.8
Ø19.05	3/4	1.9~2.1



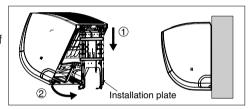
Check

- 1. Compare the flared work with the figure by.
- 2. If a flared section is defective, cut it off and do flaring work again.

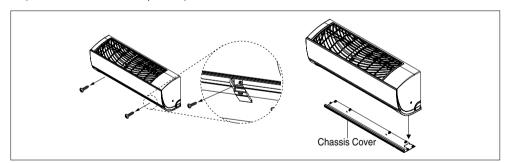


Installation of Indoor Unit

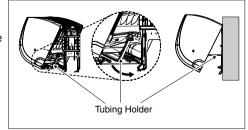
1. Hook the indoor unit onto the upper portion of the installation plate.(engage the two hooks at the top of the indoor unit with the upper edge of the installation plate) Ensure that the hooks are properly seated on the installation plate by moving it left and right



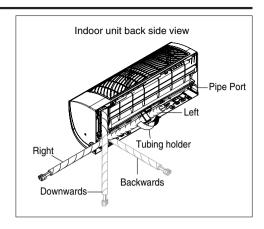
2. Pull the screw cap at the bottom of the vane. Remove the chassis cover from the unit by loosing 2screws. (Be careful no to scratch product)



3. Unlock the tubing holder from the chassis and mount between the chassis and installation plate in order to separate the bottom side of the indoor unit from the wall

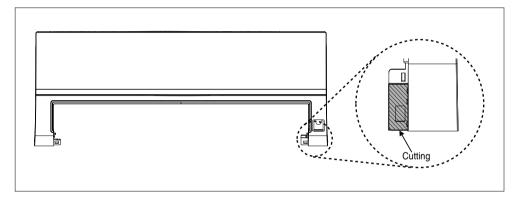


4. Remove pipe port cover and position the tubing.



A CAUTION

When installing downwards, be sure to cut the part shown below drawing.

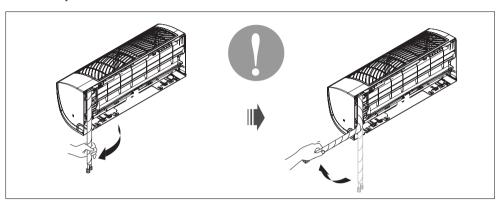


A CAUTION

For right piping, follow the instruction below.

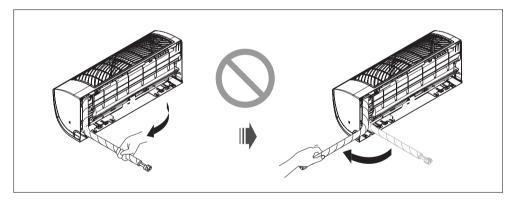
Good case

· Press on the tubing cover and unfold the tubing to downward slowly. And then bend to the left side slowly.



Bad case

• Following bending case from right to left directly may cause damage to the tubing.



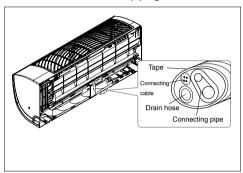
A CAUTION

Tape the tubing pipe, drain hose and the connection cable. Be sure that the drain hose is located at the lowest side of the bundle. Locating at the upper side can cause overflow from the drain pan through the inside of the unit.

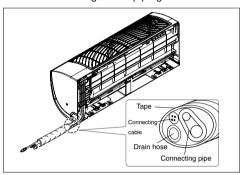
If the drain hose is routed inside the room insulate the hose with an insulation material* so that dripping from sweating (condensation) will not damage furniture or floors.

* Foamed polyethylene or equivalent is recommended.

<Left side piping>



<Right side piping>

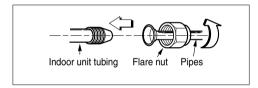


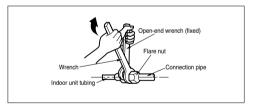
Connecting the installation pipe and drain hose to the indoor unit.

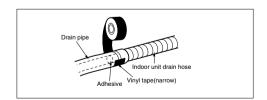
- 1. Align the center of the pipes and sufficiently tighten the flare nut by hand
- 2. Tighten the flare nut with a wrench

Outside diameter		Torque
mm inch		kgf-m
Ø 6.35	1/4	1.8~2.5
Ø 9.52	3/8	3.4~4.2
Ø 12.7	1/2	5.5~6.5
Ø 15.88	5/8	6.3~8.2
Ø 19.05	3/4	9.9~12.1

When needed to extend the drain hose of indoor unit, assemble the drain pipe as shown in the drawing

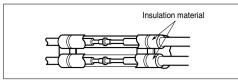


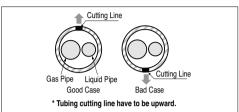


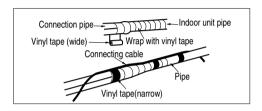


Wrap the insulation material around the connecting portion.

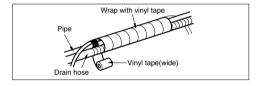
- 1. Overlap the connection pipe insulation material and the indoor unit pipe insulation material. Bind them together with vinyl tape so that there may be no gap.
- 2. Set the tubing cutting line upward. Wrap the area which accommodates the rear piping housing section with vinyl tape.





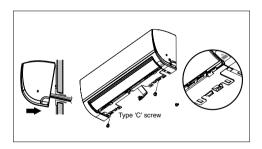


3. Bundle the piping and drain hose together by wrapping them with vinyl tape sufficient enough to cover where they fit into the rear pipe housing section.



Finishing the indoor unit installation

- 1. Mount the tubing holder in the original positon.
- 2. Ensure that the hooks are properly seated on the installation plate by moving it left and right.
- 3. Press the lower left and right sides of the unit against the installation plate until the hooks engage into their slots (clicking sound).
- 4. Finish the assembly by screwing the unit to the installation plate by using two pieces of type "C" screws. And assemble a chassis cover.



Connecting the Cables

Connect the cable to the indoor unit by connecting the wires to the terminals on the control board individually according to the outdoor unit connection. (Ensure that the color of the wires of the outdoor unit and the terminal no. are the same as those of the indoor unit.)

A CAUTION

- The circuit diagram is a subject to change without notice.
- The earth wire should be longer than the common wires.
- When installing, refer to the circuit diagram on the chassis cover.
- · Connect the wires firmly so that they may not be pulled out easily.
- Connect the wires according to color codes, referring to the wiring diagram.

A CAUTION

The power cord connected to the outdoor unit should be complied.

(This equipment shall be provided with a cord set complying with the national regulation.)

			(mm²)
NORMAL CROSS - SECTIONAL AREA	Capacity (Cooling)		
	5k ~ 12kBtu		
	1.0		
Cab	le Type(B)	H07RN-F	



The power connecting cable connecting the indoor and outdoor unit should be complied. (This equipment shall be provided with a cord set complying with the national regulation.)

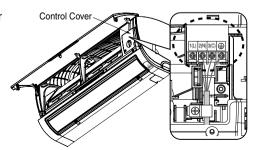
	(mm²)
NORMAL CROSS -SECTIONAL AREA	Capacity (Cooling)
	5k ~ 12kBtu
	1.0
Cable Type(B)	H07RN-F



* Field wiring shall be done such that the currentcarrying conductors become taut before the earthing conductor if the cord slips out of the cord anchorage.

Insert the connecting cable through the bottom side of indoor unit and connect the cable (You can see detail contents in 'Connecting the cables' section)

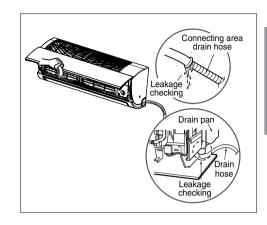
- (1) Open the Front Grille
- (2) Support the Front Grille with supporter
- (3) Open the Control Cover
- (4) Connect the connecting cable



Checking the Drainage

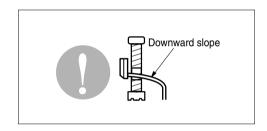
To check the drainage.

- 1. Pour a glass of water on the evaporator.
- 2. Ensure the water flows through the drain hose of the indoor unit without any leakage and goes out the drain exit.



Drain piping

1. The drain hose should point downward for easy drain flow.



2. Do not make drain piping like the following.









Test Running

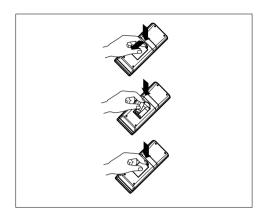
- 1. Check that all tubing and wiring are properly connected.
- 2. Check that the gas and liquid side service valves are fully opened.

Prepare remote controller

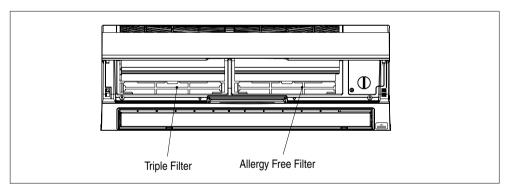
- 1. Remove the battery cover by pulling it according to the arrow direction.
- 2. Insert new batteries making sure that the (+) and (–) of battery are installed correctly.
- 3. Reattach the cover by pushing it back into position.

NOTICE

- Use 2 AAA(1.5volt) batteries. Do not use rechargeable batteries.
- Remove the batteries from the remote controller if the system is not used for a long time.



- 1. Pull out the triple filter and allergy free filter from the separately packed plastic bag.
- 2. Insert the triple filter into the left case and insert the allergy free filter into the right case.



Error Indicator: lights up Blue lamp(1 digits) and Red lamp (10 digits) alternately.

Number of lamp's blink: indicate Error code.

**Trong Indicator: lights up Blue lamp(1 digits) and Red lamp (10 digits) alternately.

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**Trong Indicator: lights up Blue lamp(1 digits) alternately.

**Trong Indicator: li

Error code	Description
01	Indoor ROOM themistor error (TH1)
02	Indoor IN-PIPE thermistor error (TH1)
03	Remote controller error
05	Communcation error between in and out
06	Indoor OUT-PIPE thermistor error (TH2)
10	Indoor BLDC fan lock
12	Indoor MID-PIPE thermistor error (TH3)

