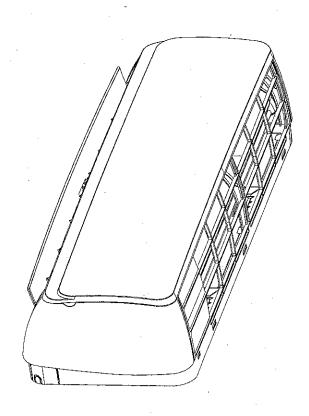


OWNER 'S MANUAL



Thank you for selecting super quality Air Conditioner. To ensure satisfactory operation for many years to come, this Owner's Manual should be read carefully before using your air conditioner. After reading, store it in a safe place. Please refer to the manual for questions on use or in the event that any irregularities occur. This Air Conditioner should be used for household use.

CONTENTS

Safety Precautions
Identification of Parts
Remote Controller
Operation instructions
Maintenance
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Installation instructions1

00

Preparation before use

Before using the air conditioner, be sure to check and preset the following

Remote Controller presetting

Each time after the remote controller replaces batteries or is energized, the arrowhead will flash on the front of "Heat" or "Cool" on LCD of the remote controller. The remote controller is **NOT** presetting as Cooling Only Air Conditioner or Heat Pump by manufacturer.

User can preset the remote controller type depending on the air conditioner type you have purchased as

Press any button when the arrowhead flashes on the front of "Heat", Heat Pump is set

Press any button when the arrowhead flashes on the front of "Cool", Cooling Only is set

If you don't press any button within 10 seconds, the remote controller is preset as Heat Pump automatically.

Only, then you CAN NOT preset the Heating operation with the remote controller.

Auto-restart Presetting:

bring any matter. But if the air conditioner you purchased is a Heat Pump one, and you preset the remote controller as Cooling If the air conditioner you purchased is a Cooling Only one, but you preset the remote controller as Heat Pump, it doesn't

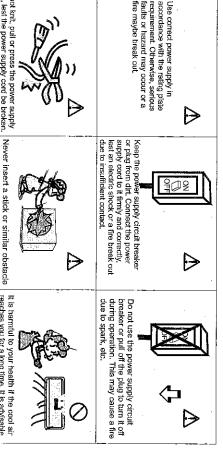
the appliance is preset as no auto-restart function by manufacturer if Auto-restart function is needed, follow the

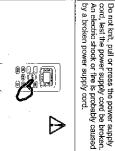
- below step to activate this function: Make sure air conditioner is turned off;
- 2) Press down and hold the Emergency button (ON/OFF)on the indoor unit until turning on the air conditioner.
- Keep pressing the Emergency button for over 10s until three short beeps are heard
- short beeps are heard. Then Auto-restart function is activated. To cancel the Auto-restart function, repeat above procedure until four

☐Safety precautions

Symbols in this Use and Care Manual are interpreted as shown below.

- Be sure not to do.
- The feature of the appliance, instead of a fault.
- Pay attention to such a situation. ✐
- Be sure to follow this instruction.
- Grounding is essential
- cause a serious hazard, such as serious injury, death, etc. Warning: Incorrect handling could





firstly before cutting off power supply if malfunction occurs. Turn off the appliance by remote control



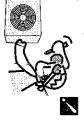
Do not repair the appliance by yourself. Prevent the air flow from reaching the gas lift his is done incorrectly, it may cause an burners and stove.



into the unit. Since the fan rotates at high

reaches you for a long time. It is advisable to let the air flow be deflected to the whole

speed, this may cause an injury.

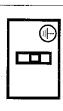






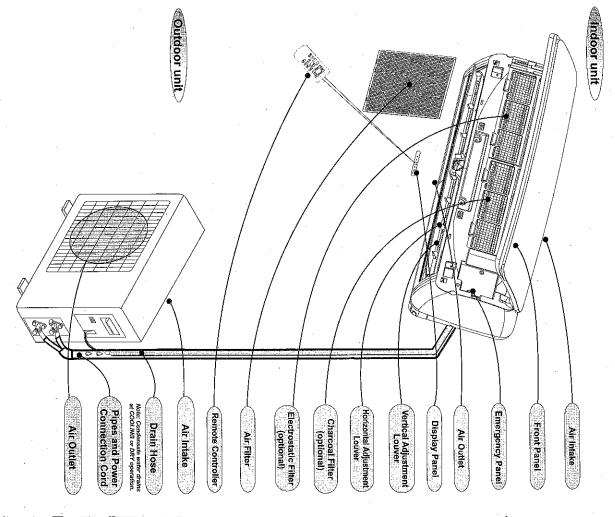
Do not put any objects on the outdoor unit.

Do not touch the operation buttons when your hands are wet.



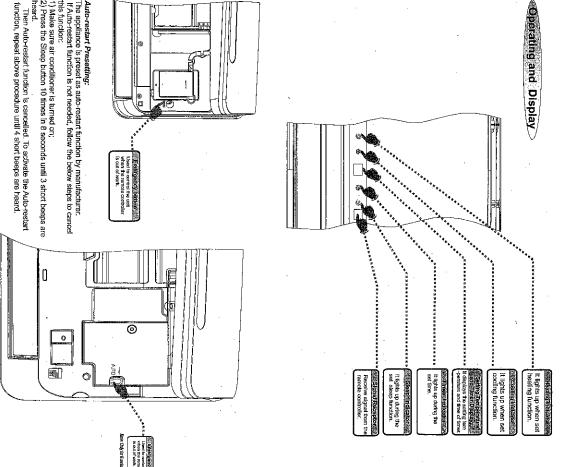
It is the user's responsibility to make the appliance be grounded according to local codes or ordinances by a licenced technician

☐ Identification of parts



The figures in this manual are based on the external view of a standard model. Consequently, the shape may differ from that of the air conditioner you have selected.

Identification of parts

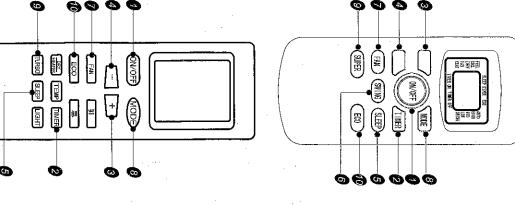


The shape and position of the switches and indicators may vary from different models, but their function are similar.

Premote controller

Remote controller

The remote controller transmits signals to the system.



- ON/OFF button
- when pressed. Used to start and stop operation
- TIMER button
- Used to select TIMER operation.
- Used to increase the set room temperature

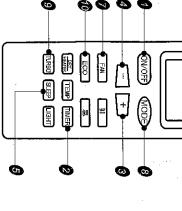
UP button (TOO COOL button)

- DOWN button (TOO WARM button)
- Used to decrease the set room temperature and time.
- SLEEP button
- Used to set or cancel sleep mode operation
- VANE control button
- Used to adjust airflow direction.
- FAN SPEED control button Used to select the indoor fan motor speed: Auto, High, Mid and Low.
- MODE button
- Used to select the type of operation mode: Feel, Cooling, Dry, Fan and Heating(Only for Heat Pump).

SUPER/TURBO button

- Used to set or cancel superstrong mode operation.
- ECO button

Used to set or cancel economic mode operation.



Note: Each mode and relevant function will be further specified in following pages.

The remote controller is general type, some keys are printed on the remote controller, but do not have this function.

Remote controller

Remote controller

How to Insert the Batteries

Please slide and remove the cover.

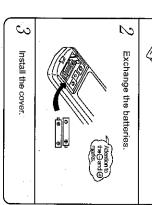
Insert new batteries making sure that the (+) and (-) of battery are matched correctly. Remove the battery cover according to the arrow direction

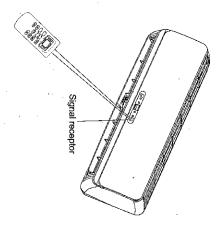
Reattach the cover by sliding it back into position.

Use 2 LR03 AAA(1.5volt) batteries. Do not use rechargeable batteries. Replace batteries with new ones of the same type when the display becomes dim.

Storage and Tips for Using the Remote Controller

Keep the remote controller safe and dry while not using.





How to Use

To operate the room air conditioner, aim the remote controller to the signal receptor. The remote controller will operate the air conditioner at a distance of up to 7m when pointing at signal receptor of indoor unit.

□ Operation instructions

SEEL mode operation procedure

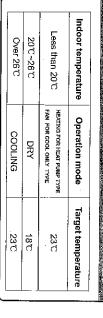
Operates by selecting automatically the operation mode(HEATING,DRY,FAN,COOLING)depending on the room temperature at staring.

With the remote controller pointing toward the air conditioner.



When the unit is not at FEEL mode

Selecting Figure mode: Press the MODE select button. Move the MODE to the FEEL position.
--



Air temperature adjustment is possible even during FEEL operation There are 6 levels of adjustment possible with the > button or

the button. Sating remperature:

ECO TEMP TIMER

ON/OFF

GO P

TURBO SLEEP LIGHT

rţ

After temperature reduces 2 °c, the indicator did not change When the ✓ button is pushed, the temperature reduces 1 °c. After temperature add 2 °c , the indicator did not change. Press the ➤ button or the ➤ button



If you don't like the content of FEEL mode operation, change to HEATING, DRY or COOLING than FEEL.

it can not run at once.

Change mode during operation, sometimes Air is not blown out during operation.

Deration instructions

TIMER mode

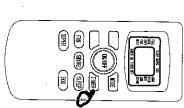
timer off at night to enjoy a good sleep. It is convenient to set the timer on with **TIMER** button when you go out in the morning to achieve a comfortable room temperature at the time you get home. You can also set



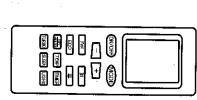
일/일

When the remote controller is on , press the TIMER button to set a switch-off timer, press again ,the setting cancel

Press UP and DOWN button to set time. Time setting is 30-minutes unists.



unit lights. Note: After setting the timer, check that TIMER INDICATOR lamp of the indoor



/ Maintenance





Grasp position "a" and pull outward to remove the front panel.





(6,6)

Use lukewarm water (below 40°C) to clean if the appliance











(O)





Reinstall and shut the front panel

pressing position "b" downward. Reinstall and shut the front panel by



Air illice maintenance

after using it for about 100 hours. It is necessary to clean the air filter

Clean it as follows:



the air filter Stop the appliance and remove



- Open the front panel
- Press the handle of the filter gently from the front.
- Grasp the handle and slide out the filter.



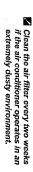
Clean and reinstall the air filter.

detergent in lukewarm water wash it with a solution of If the dirt is conspicuous After cleaning, dry well in





Close the front panel again.



7Protection

the appliance in the cases listed below. The protective device maybe trip and stop

Gleading sondlifen

	Outdoor air temperature is over 24°c
HEATING	HEATING Outdoor air temperature is below -7°c
	Room temperature is over 27°c
COOLING	COOI ING Outdoor air temperature is over *43°c
	Room temperature is below 21°c
DRY	Room temperature is below 18°c

For Tropical (T3) Climate condition models, the temperature point is 52°C instead of 43°C.

If the air conditioner runs in COOLING or DRY mode with door or window opened for a long time when relative humidity is above 80%, dew may drip down from the outlet.

Noise aplition

- Install the air conditioner at a place that can bear its weight in order to operate more quietly
- Install the outdoor unit at a place where would not annoy your neighbors. the air discharged and the operation noise
- Do not place any obstacles in front of the air outlet of the outdoor unit lest it increases the noise level.

- need to wait 3 minutes.
- (3)
- If all operation has stopped, press ON/OFF button again to restart.
- Timer should be set again if it has been

70 00 00 E

The protective device will work at following should be inspected on the following items. After using for long time, the air conditioner

- stops or changing mode during operation, you Restarting the unit at once after operation
- Connect to power supply and turn on the unit at once, it may start 20 seconds

Stop the air conditioner if above trouble occurs it is advisable to have a detail inspection after using it for 5 years even if none above occurs.

Abnormal operating sound or vibration.
 Water leakage from indoor unit.

Overheat of the power supply cord and plug

or even a burned smell

Metal cabinet electrified

Preheat

STREATING mode

minutes later At the beginning of **HEATING** operation, the airflow from indoor unit is discharged 2-5

Afterheat

minutes After the finishing of HEATING operation, the airflow from indoor unit is discharged 2-5

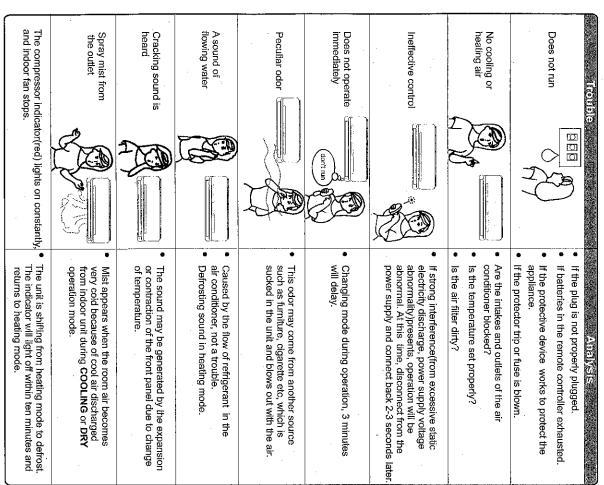
Defrost

After defrosting completes, it returns to **HEATING** mode automatically. In HEATING operation the appliance will defrost (de-ice) automatically to improve efficiency This procedure usually lasts 2-10 minutes. During defrosting, fans stop operation

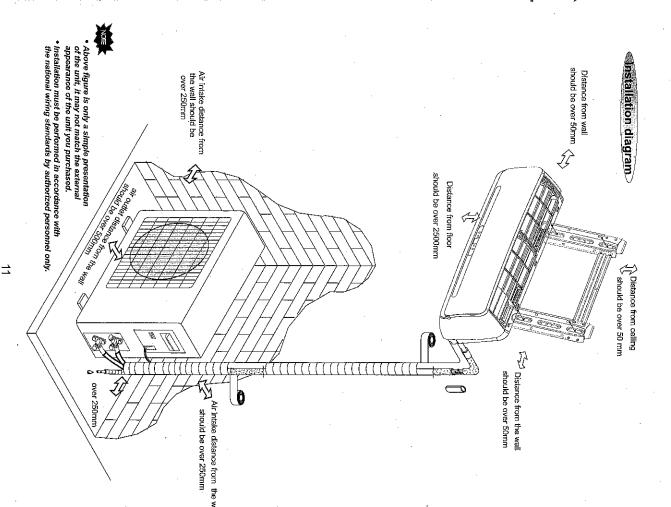
Note: Heating is NOT available for cooling only air conditioner models

☐ Troubleshooting

The following cases may not always be a malfunction, please check it before asking for service.



7Installation instructions



lnstallation instructions?

Connecting of the Cabble

Wiring between the indoor and outdoor units:

- 2) Refer to the wiring diagram attached to indoor unit 1) Remove the PCB cover from the indoor unit;
- 3) Reinstall the PCB cover. Be sure that the side B are at outside when connecting cords to indoor unit terminals;

Select the best location

Location for Installing Indoor Unit

Installation Diagram

Cabinet

- Where there is no obstacle near the air outlet and air can be easily blown to every corner.
- Where piping and wall hole can be easily arranged.
- Keep the required space from the unit to the ceiling and wall according to the wiring diagram.
- Where the air filter can be easily removed
- television, radio etc. Keep the unit and remote controller 1m or more apart from
- To prevent the effects of a fluorescent lamps, keep as far as

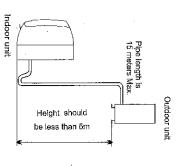
Do not put anything near the air inlet to obstruct it from air

- Where there is strong enough to bear the weigh absorption.
- and is not tend to increase operation noise and vibration

Height should be less than 5m Indoor unit Pipe length is 15 meters Max. Outdoor unit

Location for Installing Outdoor Unit

- installing it where flammable gas could leak. Where it is convenient to install and well ventilated; avoid
- Keep the required distance apart from the wall
- Keep the outdoor unit away from a place of greasy dirt, vulcanization gas exit or high salty seashore.
- Avoid installing it at the roadside where there is a risk of muddy water
- A fixed base where is not subject to increasing operation
- Where there is not any blockage for air outlet



Installation instructions

Indoor unit installation

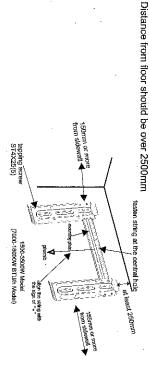
Front panel

1. Installing the Mounting Plate

- Decide an installing location for the mounting plate according to the indoor unit location and piping direction
- Keep the mounting plate horizontally with a horizontal ruler or dropping line.

Terminal (inside)

- Drill holes of 32mm in depth on the wall for fixing the plate
- Insert the plastic plugs to the hole, fix the mounting plate with tapping screws
- Inspect if the mounting plate is well fixed. Then drill a hole for piping



Note: The shape of your mounting plate may be different from the one above, but installation method is similar.

2. Drill a Hole for Piping

- Decide the position of hole for piping according to the location of mounting plate.
- Drill a hole on the wall. The hole should tilt a little
- install a sleeve through the wall hole to keep the wall tidy and clean.

Indoor Outdoor Wall hole sleeve (hard polythene tube prepared by user) (tilt downward)

Indoor Unit Piping Installation

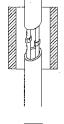
- Put the piping (liquid and gas pipe) and cables through the wall hole from outside or put them through from inside after indoor piping and cables connection complete so as to connect to outdoor unit. Decide whether saw the unloading piece off in accordance with the piping direction.(as shown below)



After connecting piping as required, install the drain hose. Then connect the power cords. After connecting, wrap the piping, cords and drain hose together with thermal insulation materials.

🗀 Installation instructions

 Piping Joints Thermal Insulation.
 Wrap the piping joints with thermal insulation materials and then wrap with a vinyl tape.





Thermal insulation

Piping Thermal Insulation:

 a. Place the drain hose under the piping. Note: Drain hose is prepared by user. Insulation material uses polythene foam over 6mm in thickness.

Drain pipe should point downward for easy drain flow.
Do not arrange the drain pipe twisted, sticking out or wave around, do not immerse the end of it in water.

sure to thermal insulated when passing along the indoor unit.

When the piping is directed to the right, piping, power Cord and drain pipe should be thermal insulated and fixed onto the back of the unit with a piping fixer.

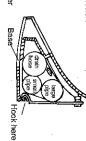
If an extension drain hose is connected to the drain pipe, make

(for heat-pump) Power cord 1 Thermal insulation (prepared by user) Drain hose Small pipe

Defrost cable(for heat-pump)

Piping fixer





A. Insert the pipe fixer to the slot.

B. Press to hook the pipe fixer onto the base

Piping Connection:

- a. Connect indoor unit pipes with two wrenches. Pay special attention to the allowed torque as shown below to prevent the pipes, connectors and flare nuts from being deformed and damaged.
- b. Pre-tighten them with fingers at first, then use the wrenches.

Model		Torque	Nut width
7,9,12,18K	Liquid Side (a 6 or 1/4 inch)	1.8kg.m	· 17mm
22,24K	Liquid Side (e 10 or 3/8 inch)	3.5kg.m	22mm
7,9K	Gas Side (e 10 or 3/8 inch)	3.5kg.m	22mm
12,18K	Gas Side (e 12 or 1/2 inch)	5.5kg.m	24mm
22,24K	Gas Side (e 16 or 5/8 inch)	7.5kg.m	2,7mm

For T3 climate kind models, 18K and 24K Liquid Side is +6 (or 1/4 inch).

Installation instructions

4. Connecting of the Cable

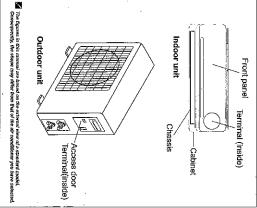
Indoor Unit

connection. Connect the power connecting cord to the indoor unit by connecting the wires to the terminals on the control board individually in accordance with the outdoor unit

Note: For some models, it is necessary to remove the cabinet to connect to indoor unit terminal.

Outdoor Unit

- control board individually as the following the screw. Connect the wires to the terminals on the Remove the access door from the unit by loosening
- Secure the power connecting cord onto the control board with cable clamp.
- Reinstall the access door to the original position
- 4) Use a recognized circuit breaker for 24K model between the power source and the unit. A disconnecting device to adequately disconnect all supply lines must be fitted.





Caution.

- Comfirm that the cable thickness is as specified in the power source specification. wiring, refer to the circuit diagram posted on the inside of the access door. 1. Never fail to have an individual power circuit specifically for the air conditioner. As for the method of
- Check the wires and make sure that they are all tightly fastened (See the cable specification table below)
- 4. Be sure to install an earth leakage circuit breaker in wet or moist after cable connection.



Cable Specifications

Capacity (Btu/h)	Powe	Power cord	Power con	mecting cord	Power connecting cord Power connecting cord1(for heat pump	ord1(for heat pump)
	Туре	Normal cross - sectional area	Туре	Normal cross - sectional area	Туре	Normal cross - sectional area
7K,9K	H05VV-F	H05VV-F 1.0mm²X3	H07RN-F	H07RN-F 1.0mm ² X3	H07RN-F	0.75mm ² X2
12K	H05VV-F	H05VV-F 1.5mm²X3	H07RN-F	1.5mm²X3	H07RN-F	0.75mm²X2
18K	H07RN-F	H07RN-F 2.5mm ² X3 H07RN-F 2.5mm ² X3	H07RN-F	2.5mm²X3	H07RN-F	0.75mm ² X2
22K,24K	H07RN-F	## 2.5mm ² X3 H07RN-F (heaf pump)	H07RN-F	2.5mm*X3+0.75mm*X3 (heat pump)	H07RN-F	0.75mm²X2
				2.5mm²X4(cool only)		

Note: Above cables shall be approved by HAR or SAA

☐/Installation instructions

Outdoor unit installation

1.Install Drain Port and Drain Hose (for heat-pump model only)

port as the right figure shown. condensate water. Just install the drain port and rubber washer to in heating mode. In order not to disturb your neighbor and protect the environment, install a drain port and a drain hose to direct the the chassis of the outdoor unit, then connect a drain hose to the The condensate drains from the outdoor unit when the unit operates

2. Install and Fix Outdoor Unit

Fix with bolts and nuts tightly on a flat and strong floor.

The figures is, this manual are besed on the external view of a standard model. Consequently, the shape may differ from that of the air conditioner you have select

Drain hose (prepare by user)

from shaking due to serious vibration or strong wind. If installed on the wall or roof, make sure to fix the supporter well to prevent it

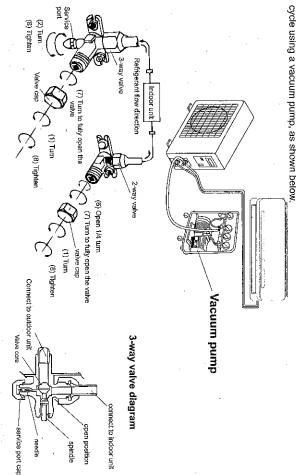
3. Outdoor Unit Piping Connection

- Remove the valve caps from the 2-way and 3-way valve.
- Connect the pipes to the 2-way and 3-way valves separately according to the required torque.

4. Outdoor Unit Cable Connection (see previous page)



The air which contains moisture remaining in the refrigeration cycle may cause a malfunction on the compressor. After connecting the indoor and outdoor units, evacuate air and moisture from refrigerant



Note: To protect the environment, be sure not to discharge the refrigerant to the air directly.

Installation instructions

How to Purge Air Tubes:

- Unscrew and remove caps from 2 and 3-way valves.
- Unscrew and remove cap from service valve
- (3). Connect vacuum pump flexible hose to the service valve.
- (4). Start vacuum pump for 10-15 minutes until reaching a vacuum of 10 mm Hg absolutes
- (5). With vacuum pump still running close the low pressure knob on vacuum pump manifold. Then stop
- (6). Open 2-way valve 1/4 turn then close it after 10 seconds. Check tightness of all joints using liquid soap or an electronic leak detector.
- (8). Replace and tighten all valve caps (7). Turn 2 and 3-way valves stem to fully the valves. Disconnect vacuum pump flexible hose.



- Please read this manual before installing and using it.
- Do not let air enter the refrigeration system or discharge refrigerant when moving the air conditioner.
- Testing run the air conditioner after finishing installation, and record details of operation.
- Type of fuse used on indoor unit controller for 7K,9K,12K is 50T, with rating 3.15 A,T,250V For 18K, 22K,24K models use 3.15A, T, 250V.
- The fuse for the whole unit is to be provided by the user according to the current at maximum power input or use other over-current protective device instead
- Accessibility to the plug must be guaranteed even after the installation of the appliance to disconnect it in case of need. If not possible, connect appliance to a double-pole switching device with contact separation of at least 3 mm placed in an accessible position even after installation.