ComfortStarX³² AIR CONDITIONER 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.

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Preparation before use

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

Remote Controller presetting

The remote controller is **NOT** presetting as Cooling Only Air Conditioner or Heat Pump by manufacturer.

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.

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

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.

Note:

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

• Auto-restart Presetting:

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:

- 1) 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.
- 3) Keep pressing the Emergency button for over 10s until three short beeps are heard.
- Then Auto-restart function is activated. To cancel the Auto-restart function, repeat above procedure until four short beeps are heard.

C 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.

Warning: Incorrect handling could cause a serious hazard, such as serious injury, death, etc.



This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

The appliance shall be installed in accordance with national wiring regulations.

If connecting power to fixed wiring, an all-pole disconnection device which has at least 3mm clearances in all poles, and have a leakage current that may exceed 10mA, the residual current device(RCD) having a rated residual operating current not exceeding 30mA, and disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.

🗁 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.

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Didentification of parts



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

Remote controller

Remote controller

The remote controller transmits signals to the system.



1	ON/OFF button Used to start and stop operation when pressed.
2	TIMER button Used to select TIMER operation.
3	UP button (TOO COOL button) Used to increase the set room temperature and time.
4	DOWN button (TOO WARM button)
	Used to decrease the set room temperature and time.
5	SLEEP button Used to set or cancel sleep mode operation. In cooling or heating mode,press "SLEEP" button more than 10 times in eight seconds,open or close auto-restart function.
6	VANE control button (Only some models are used) Vane control/Swing
7	FAN SPEED control button Used to select the indoor fan motor speed: Auto, High, Mid and Low.
9	MODE button Used to select the type of operation mode: Feel, Cooling, Dry, Fan and Heating(Only for Heat Pump). SUPER(TURBO) button
	HEATER button (orbustore models are used)
9	
Ð	LIGHT button Lamp light display
2	LOCK button Long press for 3 seconds to lock or unlock the remote control
ote: T multa	he remote control with Fahrenheit function can switch between Fahrenheit/Celsius by aneously holding down the temperature up and down buttons for 5 seconds.

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. Some models need to enter the energy efficiency test state as follows:

Cooling energy efficiency test entry method: the remote control sets the cooling mode and 16 $^{\circ}$ C, press the light button 6 times within 10 seconds to enter this mode, after entering the buzzer short 3 sounds.

Heating energy efficiency test entry method: The remote control sets the heating mode and 30° C, press the light button 6 times within 10 seconds to enter this mode, and the buzzer will beep 3 times after entering.



Remote controller

How to Insert the Batteries

Remove the battery cover according to the arrow direction.

Insert new batteries making sure that the (+) and (-) of battery are matched correctly.

Reattach the cover by sliding it back into position.

Note:

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.

Deration instructions

FEEL mode operation procedure

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

23℃

With the remote controller pointing toward the air conditioner.

Press (NOFF) button, when the appliance receives the signal, the RUN indicator of the indoor unit lights up.

When the unit is not at FEEL mode.

Selecting FEEL mode

Press the MODE select button.

Over 26°C

Move the MODE to the FEEL position.



Operation mode and temperature are determined by indoor temperature				
	Indoor temperature	Operation mode	Target temperature	
	Less than 20 °C	HEATING FOR HEAT PUMP TYPE FAN FOR COOL ONLY TYPE	23°C	
	20°C~26°C	DRY	23°C	

COOLING

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

Setting temperature

Press the \land button or the \checkmark button. When the \land button is pushed, the temperature increases 1°c. After temperature add 2°c, the indicator did not change. When the \checkmark button is pushed, the temperature reduces 1°c. After temperature reduces 2°c, the indicator did not change.



Air is not blown out during operation. Change mode during operation, sometimes it can not run at once. The operation of the AUTO mode can be performed by only pressing the ON/OFF button the next time.

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

Deration instructions

TIMER mode

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 timer off at night to enjoy a good sleep.

Timer-setti	ng) í	\square
When the remote controller is off, press the TIMER button to set a switch-on timer, press again ,the setting cancel.	When the remote controller is on , press the TIMER button to set a switch-off timer, press again ,the setting cancel.		000
Press UP and DOWN button to set time. Time setting is 30-minutes unists.			

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

🗁 Maintenance



Protection

Operating condition

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

	Outdoor air temperature is over 24°c		
HEATING	Outdoor air temperature is below -7°c		
	Room temperature is over 27°c		
	Outdoor air temperature is over *43°c		
COOLING	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.

Features of protector

- The protective device will work at following cases.
 - Restarting the unit at once after operation stops or changing mode during operation, you need to wait 3 minutes.
 - Connect to power supply and turn on the unit at once, it may start 20 seconds later.
 - If all operation has stopped, press **ON/OFF** button again to restart.
 - Timer should be set again if it has been canceled.

Noise pollution

- 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 the air discharged and the operation noise would not annoy your neighbors.
- Do not place any obstacles in front of the air outlet of the outdoor unit lest it increases the noise level.

Inspection

After using for long time, the air conditioner should be inspected on the following items.

- Overheat of the power supply cord and plug or even a burned smell.
- Abnormal operating sound or vibration.
- Water leakage from indoor unit.
- · Metal cabinet electrified.
- 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.

Features of HEATING mode

Preheat

2

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

Afterheat

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

Defrost

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. After defrosting completes, it returns to **HEATING** mode automatically.

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.

Trouble	Analysis
	 If the plug is not properly plugged. If batteries in the remote controller exhausted.
Does not run	 If the protective device works to protect the appliance.
	 If the protector trip or fuse is blown.
No cooling or heating air	 Are the intakes and outlets of the air conditioner blocked? Is the temperature set properly? Is the air filter dirty?
Ineffective control	 If strong interference(from excessive static electricity discharge, power supply voltage abnormality)presents, operation will be abnormal. At this time, disconnect from the power supply and connect back 2-3 seconds later.
Does not operate immediately	 Changing mode during operation, 3 minutes will delay.
Peculiar odor	 This odor may come from another source such as furniture, cigarette etc, which is sucked in the unit and blows out with the air.
A sound of flowing water	 Caused by the flow of refrigerant in the air conditioner, not a trouble. Defrosting sound in heating mode.
Cracking sound is heard	 The sound may be generated by the expansion or contraction of the front panel due to change of temperature.
Spray mist from the outlet	 Mist appears when the room air becomes very cold because of cool air discharged from indoor unit during COOLING or DRY operation mode.
The compressor indicator(red) lights on constantly, and indoor fan stops.	• The unit is shifting from heating mode to defrost. The indicator will light off within ten minutes and returns to heating mode.

[] Instructions for repairing appliances containing(R32)

- * Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- * The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.
- * Do not pierce or burn.
- * Be aware that refrigerants may not contain an odour.



Qualification of workers

Every working procedure like maintenance, service and repair operations that affects safety means shall only be carried out by competent persons.

Examples for such working procedures are:

- breaking into the refrigerating circuit;
- opening of sealed components;
- opening of ventilated enclosures.

Qualification of workers

Prior to beginning work on systems containing FLAMMABLE REFRIGERANTS, safety checks are necessary to ensure that the risk of ignition is minimised.

Work procedure

Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapour being present while the work is being performed.

General work area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided.

Checking for presence of refrigerant

The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i. e. non-sparking, adequately sealed or intrinsically safe.

[] Instructions for repairing appliances containing(R32)

Presence of fire extinguisher

If any hot work is to be conducted on the refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging area

No ignition sources

No person carrying out work in relation to a REFRIGERATING SYSTEM which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.

Ventilated area

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

Checks to the refrigerating equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer's technical department for assistance.

The following checks shall be applied to installations using FLAMMABLE REFRIGERANTS:

- the actual REFRIGERANT CHARGE is in accordance with the room size within which the refrigerant containing parts are installed;

- the ventilation machinery and outlets are operating adequately and are not obstructed;

- if an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant

 marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;

- refrigerating pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

Checks to electrical devices

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised. Initial safety checks shall include:

- that capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
- that no live electrical components and wiring are exposed while charging, recovering or purging the system;
- that there is continuity of earth bonding.

Instructions for repairing appliances containing(R32) (R32)

Repairs to sealed components Sealed electrical components shall be replaced.

Repair to intrinsically safe components Intrinsically safe components must be replaced.

Cabling

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

Detection of flammable refrigerants

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

The following leak detection methods are deemed acceptable for all refrigerant systems.

Electronic leak detectors may be used to detect refrigerant leaks but, in the case of FLAMMABLE REFRIG-ERANTS, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25 % maximum) is confirmed.

Leak detection fluids are also suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work. If a leak is suspected, all naked flames shall be removed/extinguished.

If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. Removal of refrigerant shall be according to **Removal and evacuation**.

Removal and evacuation

When breaking into the refrigerant circuit to make repairs – or for any other purpose –conventional procedures shall be used. However, for flammable refrigerants it is important that best practice be followed, since flammability is a consideration. The following procedure shall be adhered to:

- safely remove refrigerant following local and national regulations;
- evacuate;
- purge the circuit with inert gas (optional for A2L);
- evacuate (optional for A2L);
- continuously flush or purge with inert gas when using flame to open circuit; and
- open the circuit.

The refrigerant charge shall be recovered into the correct recovery cylinders if venting is not allowed by local and national codes. For appliances containing flammable refrigerants, the system shall be purged with oxygen-free nitrogen to render the appliance safe for flammable refrigerants. This process might need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems.

[] Instructions for repairing appliances containing(R32)

For appliances containing flammable refrigerants, refrigerants purging shall be achieved by breaking the vacuum in the system with oxygen-free nitrogen and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum (optional for A2L). This process shall be repeated until no refrigerant is within the system (optional for A2L). When the final oxygen-free nitrogen charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.

The outlet for the vacuum pump shall not be close to any potential ignition sources, and ventilation shall be available.

Charging procedures

In addition to conventional charging procedures, the following requirements shall be followed.Ensure that contamination of different refrigerants does not occur when using charging equipment.Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.

- Cylinders shall be kept in an appropriate position according to the instructions.
- Ensure that the REFRIGERATING SYSTEM is earthed prior to charging the system with refrigerant
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the REFRIGERATING SYSTEM.

Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas. The system shall be leak-tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

Decommissioning

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of recovered refrigerant. It is essential that electrical power is available before the task is commenced.

a) Become familiar with the equipment and its operation.

- b) Isolate system electrically.
- c) Before attempting the procedure, ensure that:
- mechanical handling equipment is available, if required, for handling refrigerant cylinders;
- all personal protective equipment is available and being used correctly;
- the recovery process is supervised at all times by a competent person;
- recovery equipment and cylinders conform to the appropriate standards.
- d) Pump down refrigerant system, if possible.

e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.

f) Make sure that cylinder is situated on the scales before recovery takes place.

- g) Start the recovery machine and operate in accordance with instructions.
- h) Do not overfill cylinders (no more than 80 % volume liquid charge).

i) Do not exceed the maximum working pressure of the cylinder, even temporarily.

j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.

k) Recovered refrigerant shall not be charged into another REFRIGERATING SYSTEM unless it has been cleaned and checked

[] Instructions for repairing appliances containing(R32)

Labelling

Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing FLAMMABLE REFRIGERANTS, ensure that there are labels on the equipment stating the equipment contains FLAMMABLE REFRIGERANT.

Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.

When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge is available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i. e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of the flammable refrigerant. If in doubt, the manufacturer should be consulted. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition.

The recovered refrigerant shall be processed according to local legislation in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The compressor body shall not be heated by an open flame or other ignition sources to accelerate this process. When oil is drained from a system, it shall be carried out safely.



Connecting of the Cabble

Wiring between the indoor and outdoor units:

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

Select the best location

Location for Installing Indoor Unit

- 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.
- Keep the unit and remote controller 1m or more apart from television, radio etc.
- To prevent the effects of a fluorescent lamps, keep as far as possible.
- Do not put anything near the air inlet to obstruct it from air absorption.
- Where there is strong enough to bear the weight and is not tend to increase operation noise and vibration.

Location for Installing Outdoor Unit

- Where it is convenient to install and well ventilated; avoid installing it where flammable gas could leak.
- · 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 noise.
- Where there is not any blockage for air outlet.

Installation Diagram

COVER

Front panel

Terminal (inside)

B side (after connect)

Cabinet

COVER



Outdoor unit



Indoor unit

Indoor unit installation

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.
- 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.
- Distance from floor should be over 2500mm



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 downward toward outside.
- Install a sleeve through the wall hole to keep the wall tidy and clean.



3. 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.



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	Pipe size	Torque	Nut width
7,9,12,18K 22,24K	Liquid Side (+6.35 or 1/4 inch)	1.8kg.m	17mm
30,36K	Liquid Side (09.52or 3/8 inch)	3.5kg.m	22mm
7,9,12,K	Gas Side (0 9.52or 3/8 inch)	3.5kg.m	22mm
12,18,24K	Gas Side(+12.7or 1/2 inch)	5.5kg.m	24mm
22,24,30,36K	Gas Side (+ 15.88 or 5/8 inch)	7.5kg.m	27mm



4. Connecting of the Cable

Indoor Unit

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 connection.

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

Outdoor Unit

1). Remove the access door from the unit by loosening the screw. Connect the wires to the terminals on the control board individually as the following.

2). Secure the power connecting cord onto the control board with cable clamp.

3). Reinstall the access door to the original position with the screw.

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:

1. Never fail to have an individual power circuit specifically for the air conditioner. As for the method of wiring, refer to the circuit diagram posted on the inside of the access door.

2. Comfirm that the cable thickness is as specified in the power source specification.

(See the cable specification table below)

3. Check the wires and make sure that they are all tightly fastened after cable connection.

4. Be sure to install an earth leakage circuit breaker in wet or moist area.



Outdoor unit installation

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

The condensate drains from the outdoor unit when the unit operates 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 condensate water. Just install the drain port and rubber washer to the chassis of the outdoor unit, then connect a drain hose to the port as the right figure shown.

2. Install and Fix Outdoor Unit

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

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

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)

Air purging

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 cycle using a vacuum pump, as shown below.



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



How to Purge Air Tubes:

- (1). Unscrew and remove caps from 2 and 3-way valves.
- (2). 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 vacuum pump.
- (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.
- (7). Turn 2 and 3-way valves stem to fully the valves. Disconnect vacuum pump flexible hose.
- (8). Replace and tighten all valve caps.



- 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, 21K,24K models use 3.15A, T, 250V. For 30K,36K models use 5.0A,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.

PACKING & UNPACKING

- · Unplug the power plug and cut off the power.
- · Fix moving parts.
- When handling, the maximum inclination angle should not exceed 45°,
- so as to avoid the failure of the refrigeration system.
- In order to avoid scratching the floor, the air conditioner should be wrapped in advance, and it is forbidden to forcibly move the air conditioner.
- · Open the strap by using cutter.
- · Open the flaps and the top side.
- · Remove the carton box from the top.



* Replacement cord instructions, type Y attachment.

If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

FOR 115V MODELS

FOR 208/230V MODELS













Operation Instructions for "Smart Life"-related Device (Wi-Fi Function):

I. Connecting the Air Conditioner to the Network

1. Scan the QR code above to download and install the "Smart Life" App. Follow the app instruction to register an account, and log in after the registration is complete.

- 2. Plug in the air conditioner and turn it on.
- 3. Open the "Smart Life" APP and click the "Add Device" button.
- 4. Follow the APP instructions to complete the network configuration.

A steady Wi-Fi indicator light on the display panel indicates a successful network connection.



II. Configuring the Device Name

After successfully connecting the device, you can change the device name on the device details page of the "Smart Life" APP for easy identification and control.

III. Controlling the Device

"Smart Life" APP Open the "Smart Life" App to control the air conditioner that has been connected to Wi-Fi, including On, Off and Mode.

IV. Disconnecting the Device

If you need to remove the air conditioner from the list, you can click the "Remove Device" button on the device details page of the "Smart Life" APP to disconnect the device.

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