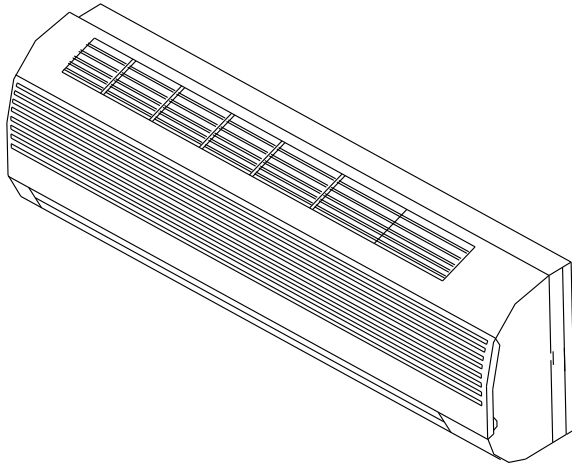


# **KLIMAIRE<sup>®</sup> ≈**

## **SPLIT AIR-CONDITIONER OWNERS' 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.....	1
Identification of Parts .....	2
Remote Controller.....	4
Operation Instructions.....	7
Maintenance.....	9
Protection.....	10
Troubleshooting.....	11
Installation Instructions.....	12

## ***Preparation Before Use***

***Before using the air conditioner, be sure to check and pre-set the following.***

- ***Remote Controller Pre-setting***

The remote controller is **NOT** preset as Cooling Only Air Conditioner or Heat Pump by manufacturer. Each time after the remote Controller replaces of batteries or is energized, the symbol will flash from “Cool” and “HEAT” alternatively  
User can preset the remote controller type depending on the air conditioner type you have purchased as follows :

Press any button when the heating symbol flashes ,then Heat Pump is set.

Press any button when the cooling symbol flashes ,then Cooling Only is set.

If you dont press any button within 10 seconds, the remote controller is pre-set as Heat Pump automatically.

***Note:***

***If the air conditioner you purchased is a Cooling Only one, but you pre-set 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 control as Cooling Only, then you CAN NOT preset the Heating operation with the remote controller .***

- ***Auto-restart Pre-setting(optional):***

the appliance is preset as Auto-restart function by manufacturer.If Auto-restart function is not needed, follow the steps below to cancel this function:

1) Make sure the air-con's power is off.

2) Press and hold the Emergency button (ON/OFF )on the indoor unit until then electrify.

3) Keep pressing the Emergency button for more than 10 seconds until four short beeps are heard.




Then Auto-restart function is disabled. To activate the Auto-restart function, repeat above procedure until three short beeps are heard.








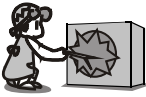





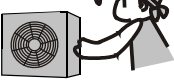





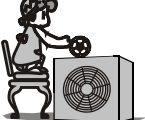






















--This appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely

--Young children should be supervised to ensure that they do not play with the appliance.

# Safety Precautions

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

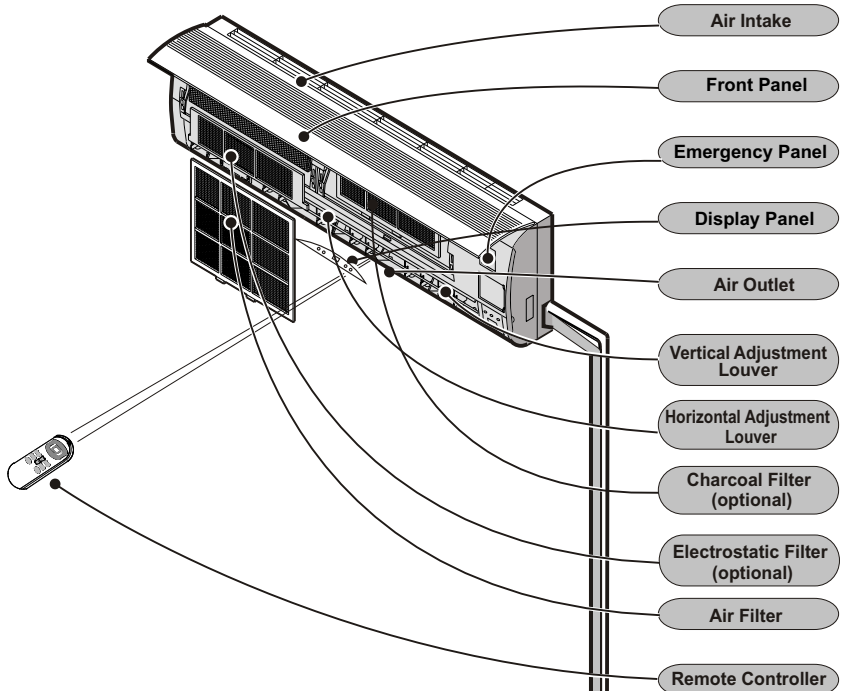
-  Be sure not to do.
-  Pay attention to such a situation.
-  Grounding is essential.
-  Be sure to follow this instruction.
-  Remove the power source plug from a socket.
-  Warning: Incorrect handling could cause a serious hazard, such as death, serious injury, etc.

<p></p> <p>Use correct power supply in accordance with the rating plate requirement. Otherwise, serious faults or hazard may occur or a fire maybe break out. 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.</p>	<p>Keep the power supply circuit breaker or plug from dirt. Connect the power supply cord to it firmly and correctly, lest an electric shock or a fire break out due to insufficient contact may occur.</p>  	<p>Do not use the power supply circuit breaker or pull off the plug to turn it off during operation. This may cause a fire due to spark, etc.</p>  
<p>Do not tangle, pull or press the power supply cord, as this cord will be damaged and an electric shock or fire is probably caused by a broken power supply cord.</p>  	<p>Never insert a stick or similar obstacle to the unit. When the fan rotates at high speed, this may cause an injury.</p>  	<p>It is harmful to your health if the cool air reaches you for a long period. It is advisable to allow the air flow to circulate to all the wholeroom.</p>  
<p>Firstly turn off by the appliance remote controller before cutting off power supply if malfunction occurs.</p>  	<p>Do not repair the appliance by yourself. If this is done incorrectly, it may cause an electric shock, etc.</p>  	<p>Prevent the air flow from reaching the gas burners and stoves.</p>  
<p>Do not touch the operation buttons when your hands are wet.</p>  	<p>Do not put any objects on the outdoor unit.</p>  	<p>It is the user's responsibility to ground the appliance according to local codes or ordinances by a licenced technician.</p>  
<p>Do not use extension cords and do not connect the air conditioner to a socket to which other electric appliances are connected.</p>  	<p>Check that the plug is not covered with dust and make sure to insert it firmly so that it does not get loosened.</p> <p> Fully insert the plug firmly. </p> <p>If the plug is covered with dust or improperly inserted, this may cause electric shock or fire.</p> 	<p>When not using the system for a long time, remove the plug from the socket to ensure safety.</p>  <p>If the plug is covered with dust, it could cause heat generation or fire.</p> 
<p>Make sure to use a fuse of proper electric rating. Use of steel or copper wire instead of a fuse is strictly prohibited because it could result in a trouble or fire accident.</p>  	<p>Do not wash the air conditioner with water.</p>   <p>It could cause electric shocks.</p>	<p>If abnormal conditions occur, such as smell of burning, immediately stop the system' operation, remove the power plug and consult your Dealer.</p>  <p>Operating the system under abnormal conditions could result in malfunctions, electric shocks, fire, etc.</p> 
<p>Do not put anything on the unit, especially vases which contain water inside.</p> <p>If water gets into the unit, the electrical insulation would be deteriorated and this could cause electric shocks.</p>  	<p>When operation the system simultaneously with a combustion apparatus, you should air the room frequently.</p> <p>Insufficient ventilation could cause an oxygen deficiency accident.</p>  	<p>Before cleaning the system, stop the operation and remove the power plug.</p> <p>Cleaning should never be carried out while the inside fans are running.</p>  

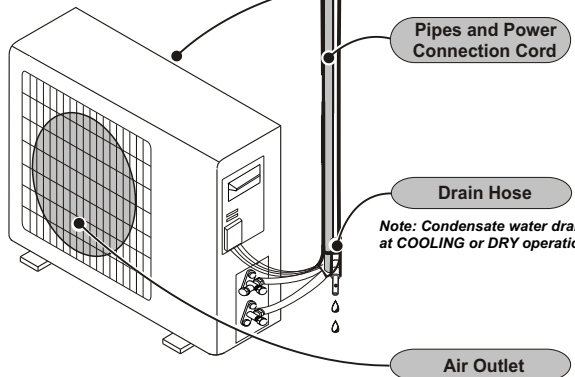
**Notes:** For the purpose of innovation and improvement, above products are subject to change without prior notice. The air conditioner is not a toy, please keep away from children. The appliance shall not be installed in the laundry!

# Identification of Parts

## Indoor Unit



## Outdoor Unit

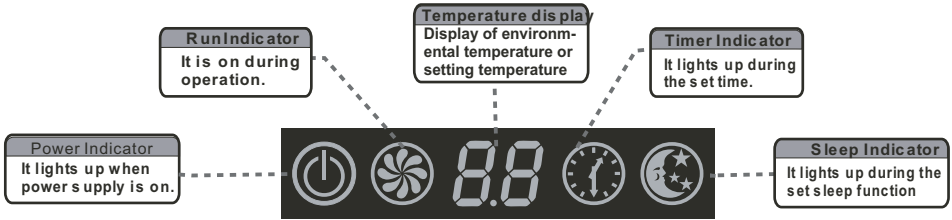


*Note: Condensate water drains at COOLING or DRY operation.*

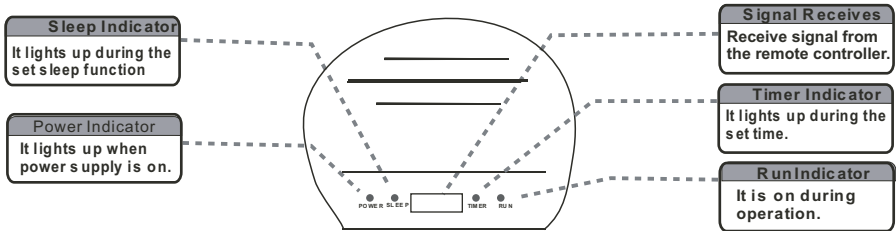
■ The figures in this manual are based on the external view of a standard model. Consequently, the shape may differ from that of the air conditioner you have selected.

# Identification of Parts

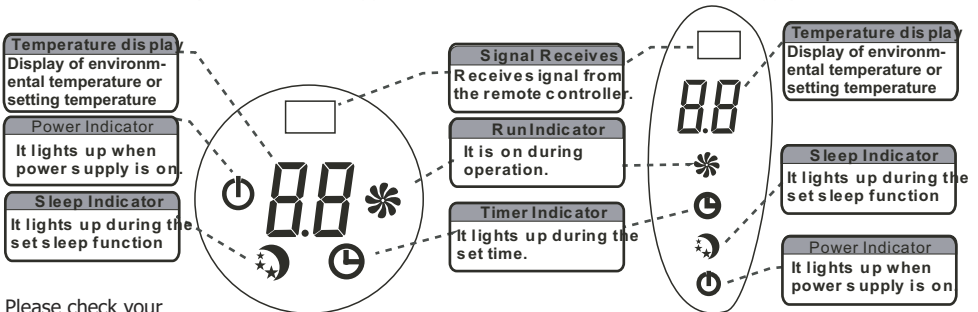
## Operating and Display



Please check your fan coil unit appearance and refer to the instructions that apply to that unit.

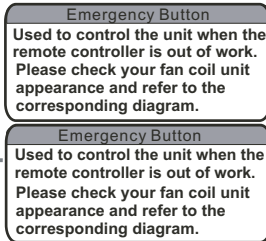
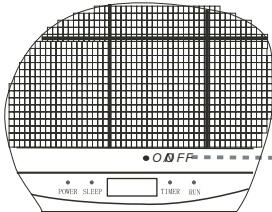


Please check your fan coil unit appearance and refer to the instructions that apply to that unit.



Please check your fan coil unit appearance and refer to the instructions that apply to that unit.

Please check your fan coil unit appearance and refer to the instructions that apply to that unit.



**Remarks:** When remote controller is out of work, open the panel and you can see emergency button there, see the above pictures. The emergency button for 18K and 24K series is at the top right, see ON/OFF button there.

☑ The shape and position of the switches and indicators may vary from different models, but their function are similar. If there is any difference between the sketch map and the substantiality, please subject to the substantiality.

# Remote Control

## Remote Control

The remote control transmits signals to the system.

### 1 ON/OFF button

Used to start and stop operation .

### 2 TIMER button

Used to select TIMER operation.


### 3 UP button (TOO COOL button)

Used to increase the set room temperature (60°F ~ 88°F) and time(0.5~24h).

### 4 DOWN button (TOO WARM button)

Used to decrease the set room temperature and time.









### 5 SLEEP button

Used to set or cancel sleep operation. It includes normal-SLEEP() () and Comfortable-SLEEP() ,but Comfortable-SLEEP is optional.






### 6 SWING control button

Used to adjust airflow direction.

### 7 FAN SPEED control button

Used to select the indoor fan motor speed: Auto( or ) , High( or ) , Mid( or ) and Low( or ) . This function is invalid in sleep mode.

### 8 MODE button

Used to select the type of operation mode: FEEL( ) , COOLING() , DRY() , FAN( ) AND HEATING ( Only for Heat Pump)FEEL mode can select the operation mode such as COOL,DRY,FAN,HEAT automatically depending on the room temperature,and the feel mode is default setting at starting.

### 9 SUPER button(optional)

Used to start and stop SUPER operation .

### 10 ECO. button(optional)

Used to start and stop ECONOMY operation .This function is invalid in SUPER mode.The indoor fan motor speed is “AUTO” mode fan speed in ECO. Mode.

### 11 HEALTHY button(optional)

Used to start and stop HEALTHY operation .

### 12 DISPLAY button(optional)

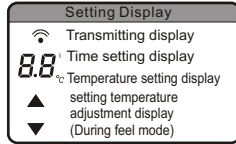
Used to start and stop DISPLAY screen operation .

### 13 ANTI-MILDEW button(optional)

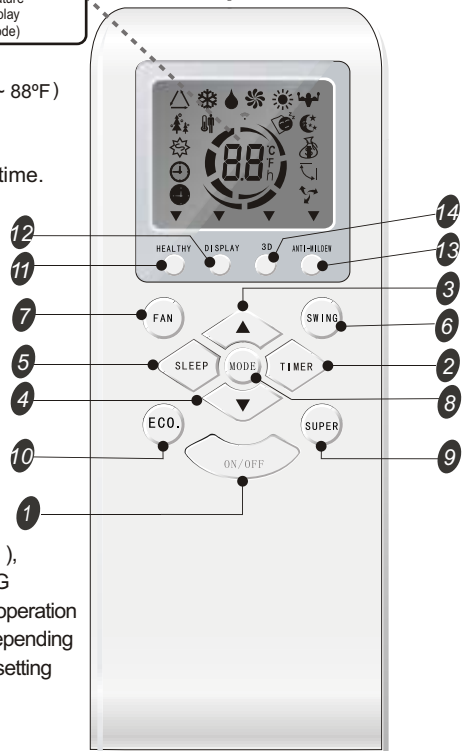
Used to start and stop ANTI-MILDEW operation .

### 14 3D button(optional)

Used to start and stop 3D operation .Two-direction Airflow,the horizontal louver is opened different direction in different mode(optional).



Signal Transmitting Window  
Transmits signals to the system.

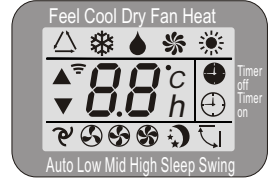
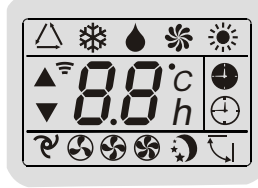
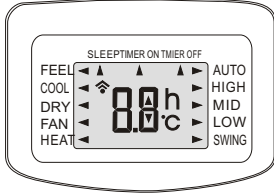


Note:Each mode and relevant function will be further specified in following pages.

# Remote Control

## Remote Control

Some remote control display:



Note: The above remote controller is only for reference, please refer to your own for details

- ❑ When inserting the batteries for the first time or each time the batteries are replaced as they are discharged, the remote control makes a short "Auto-Test": all the symbols can be displayed on the screen and keep 2 seconds, then the symbol will flash from "Cool" and "HEAT" alternately. For cooling only air con, please press any button when the cooling symbol is flashing, then the remote control has been set as cooling only. For cooling and heating air con, please press any button when the heating symbol is flashing, then the remote controller has been set as cooling and heating. If none of the buttons is pressed within 10 seconds, the remote control will be set as cooling and heating automatically. Cooling only air con can use the remote control which has cooling and heating function, but does not have the function of heating. Although the air con is not running, the remote control still has some display.
- ❑ The light of the remote control will be turned on by pressing any button for 1.5~3 seconds, and it will be turned off automatically if no button is pressed within 10 seconds.

# Remote Control

## Remote Control

### 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. Re-attach the cover by sliding it back into position.

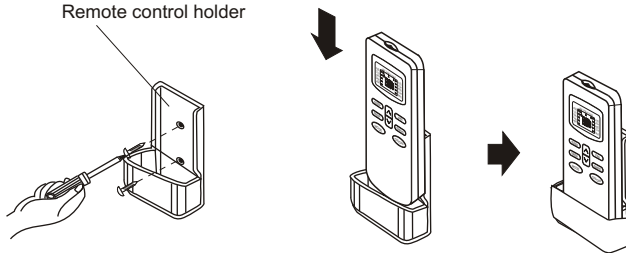
#### Note:

**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 Control

The remote control may be stored mounted on a wall with a holder.

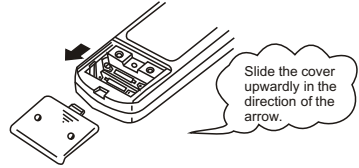
**Note: The remote control holder is an optional part.**



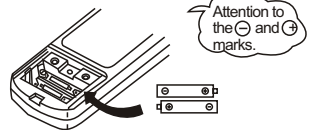
### How to Use

To operate the room air conditioner, aim the remote control to the signal receptor. The remote control will operate the air conditioner at a distance of up to 23 ft when pointing at signal receptor of indoor unit.

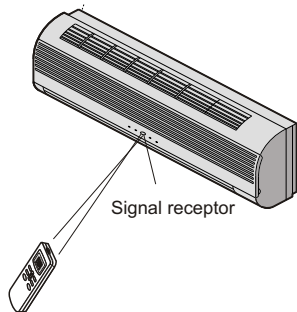
1 Please slide and remove the cover.



2 Exchange the batteries.



3 Install the cover.





# Operation Instructions

## FEEL mode operation procedure

Operates by selecting automatically the operation mode(HEAT,DRY,FAN,COOL)depending on the room temperature during start.

With the remote controller pointing toward the air conditioner.

### Turning on

Press **ON/OFF** button, when the appliance receives the signal, the RUN indicator of the indoor unit lights up.

1

When the unit is not at FEEL mode.

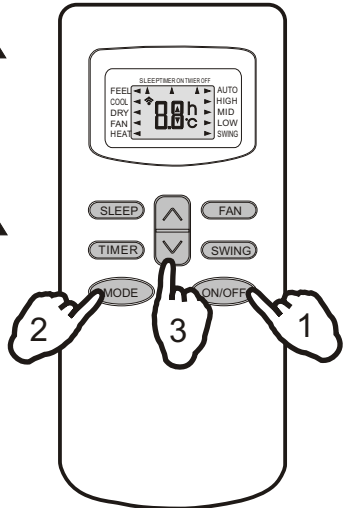
### Selecting FEEL mode

Press the MODE select button.  
Move the MODE to the FEEL position.

2

### Operation mode and temperature are determined by indoor temperature

Indoor temperature	Operation mode	Target temperature
Less than 68° F	HEATING ( FOR HEAT PUMP TYPE) FAN (FOR COOL ONLY TYPE)	73° F
68° F ~79° F	DRY	64° F
Over 78° F	COOL	73° F



Air temperature adjustment is possible even during FEEL operation. There are 4 levels of adjustment possible with the **▲** button or the **▼** button.

### Setting temperature

Press the **▲** button or the **▼** button.  
When the **▲** button is pushed, the temperature will increase 2° F. After temperature will increase 4° F, the indicator will not change.  
When the **▼** button is pushed, the temperature will reduce 2° F. After temperature reduce 4° F, the indicator will not change.

3

#### NOTE

There will be a delay when changing mode is made during the operation.  
As there might not be air blown out.

The operation of the AUTO mode can be performed by only pressing the ON/OFF button from the next time.



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

# Operation 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 when you get home. You can also set timer off at night to enjoy a good sleep.

### Timer-setting

When the Remote Controller is OFF, press the **TIMER** button to set a switch-on timer, press again, the setting will be cancel.



When the Remote Controller is ON, press the **TIMER** button to set a switch-on timer, press again, the setting will be cancel.

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

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

## SLEEP mode

### 1. Normal-SLEEP & Comfortable-SLEEP (optional)

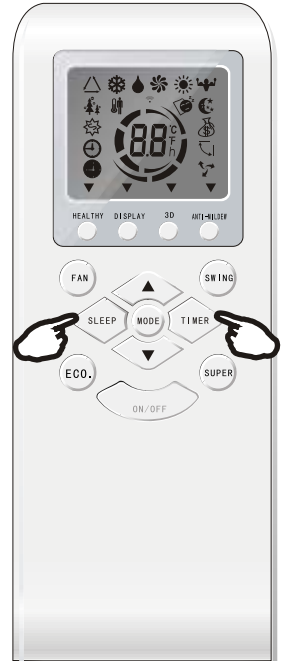
Have press the **SLEEP** button for 3 seconds, **SLEEP** operation is switched from Normal-SLEEP to Comfortable-SLEEP alternatively. Used to set or cancel sleep operation. This function is invalid in fan and dehumidify mode, This function is invalid in **SUPER** mode too. Switches OFF the appliance automatically after 10 hours in Normal-SLEEP mode.

### 2. Normal-SLEEP only

after the Unit's start. Select the operating mode and then press **SLEEP** button: the indoor fan speed operates at low speed. Switches OFF the appliance automatically after 8 hours.

### Comfortable-SLEEP note:

In this model, the temperature will automatically be adjusted with the body temperature, like the English letter "V", at the first stage of sleep, the body temperature will decrease when our air-conditioner's set-temperature decrease together; and at the last stage of sleep, the body temperature will increase when our air-conditioner's set-temperature increase together. It is very comfortable for people's sleeping.

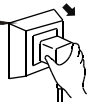


# Maintenance


## Front panel maintenance

**1** Cut off the power supply

Turn off the appliance first before disconnecting from power supply.




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




**3** Wipe with a soft and dry cloth.

Use lukewarm water (below 85°F) to clean if the appliance is very dirty.

Use a dry and soft cloth to clean it.



**4** Never use volatile substance such as gasoline or polishing powder to clean the appliance.



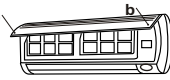
**5** Never sprinkle water onto the indoor unit

Dangerous! Electric shock!



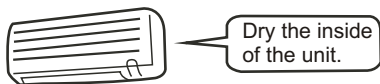
**6** Reinstall and shut the front panel.

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




## At the end of the season

**1** Set temperature to 86°F for about half a day and perform the Cooling operation to dry well the Unit's inside.



**2** Stop the unit operation and then turn off the power switch for safety and for saving electric energy.



**3** Clean and reinstall the air filters.


**4** Clean both Indoor and Outdoor Units.

**5** Remove batteries from the remote controller.

## Air filter maintenance

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

**1** Stop the appliance and remove the air filter.



1. Open the front panel.
2. Press the handle of the filter gently from the front.
3. Grasp the handle and slide out the filter.

**2** Clean and re-install the air filter.

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

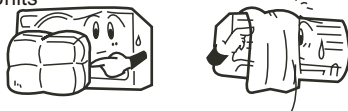


**3** Close the front panel again.

❑ Clean the air filter every two weeks if the air conditioner operates in an extremely dusty environment.

## At the beginning of the season

**1** Make sure there are no obstacles blocking the airflow around the air intake and air outlet openings of the Indoor and Outdoor Units



**2** Check the installation base for corrosion or rust.

**3** Make sure the earth wire is not broken or disconnected



**4** Make sure the air filters are cleaned.

**5** Turn on the power switch.

**6** Insert batteries into the remote controller.

# Protection

## Operating condition

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

<b>HEATING</b>	Outdoor air temperature is over 75° F
	Outdoor air temperature is below -20° F (5° F for inverter models, it's optional)
	Room temperature is over 80° F
<b>COOLING</b>	Outdoor air temperature is over *110° F (or below 0°c for inverter models)
	Room temperature is below 70° F
<b>DRY</b>	Room temperature is below 65° F

\* For Tropical (T3) Climate condition models, the temperature point is 126°F instead of 110° F

*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 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.

## Features of protector

### 1 The protective device will work as follows.

- 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.

### 2

- If all operation has stopped, press **ON/OFF** button again to restart.
- Timer should be set again if it has been canceled.

## 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

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.


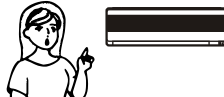

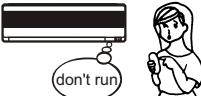
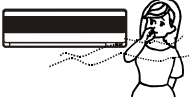


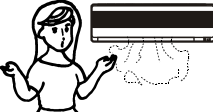
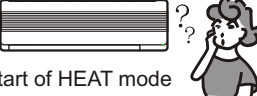
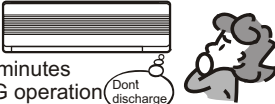

### Defrost

In **HEATING** operation the appliance will defrost (de-ice) automatically to raise 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.**

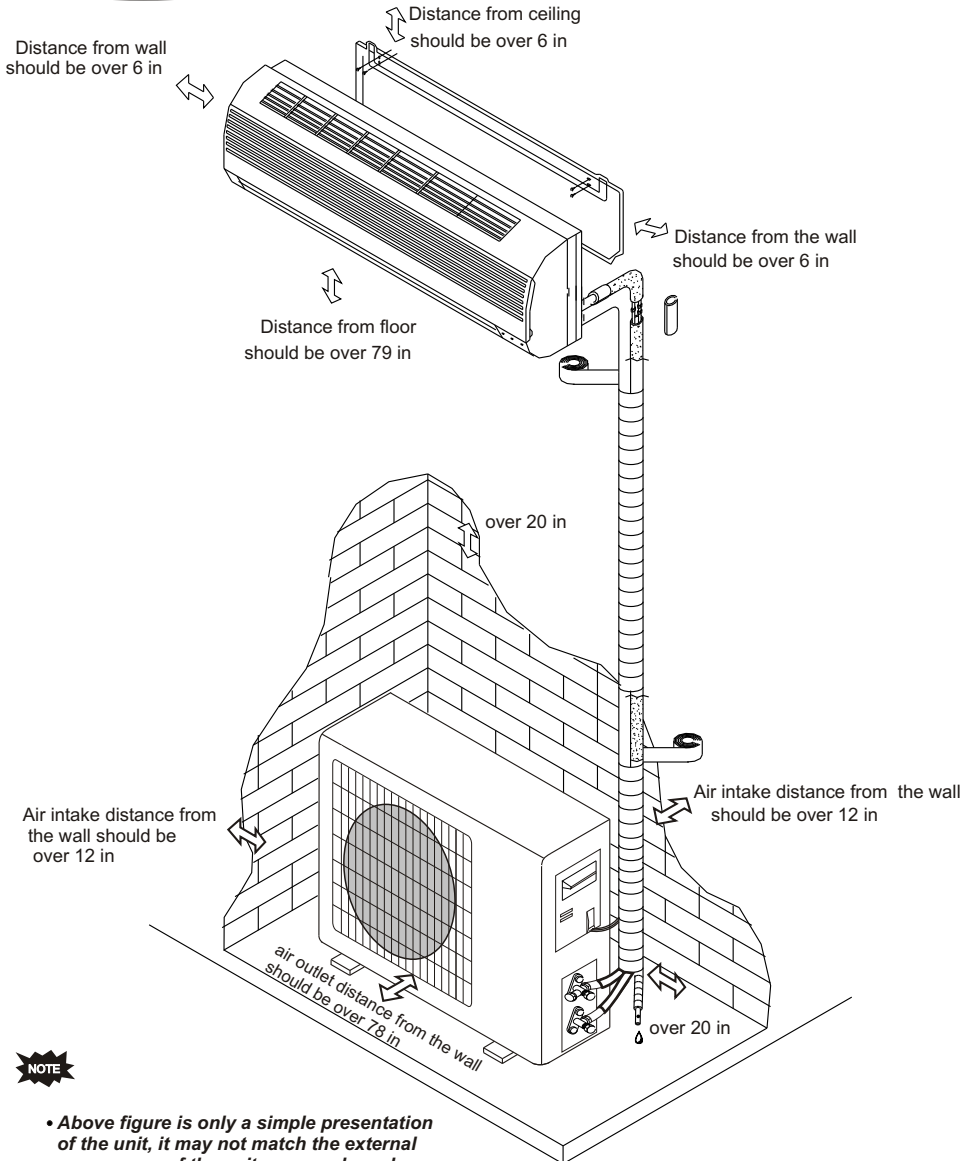
# Troubleshooting

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

Trouble	Analysis
<p>Does not run</p> 	<ul style="list-style-type: none"> <li>• If the plug is not properly plugged.</li> <li>• If batteries in the remote controller exhausted.</li> <li>• If the protective device works to protect the appliance.</li> <li>• If the protector trip or fuse is blown.</li> </ul>
<p>No cooling or heating air</p> 	<ul style="list-style-type: none"> <li>• Are the intakes and outlets of the air conditioner blocked?</li> <li>• Is the temperature set properly?</li> <li>• Is the air filter dirty?</li> </ul>
<p>Ineffective control</p> 	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
<p>Does not operate immediately</p> 	<ul style="list-style-type: none"> <li>• Changing mode during operation, 3 minutes will delay.</li> </ul>
<p>Peculiar odor</p> 	<ul style="list-style-type: none"> <li>• This odor may come from another source such as furniture, cigarette etc, which is sucked in the unit and blows out with the air.</li> </ul>
<p>A sound of flowing water</p> 	<ul style="list-style-type: none"> <li>• Caused by the flow of refrigerant in the air conditioner, not a problem.</li> <li>• Defrosting sound in heating mode.</li> </ul>
<p>Cracking sound is heard</p> 	<ul style="list-style-type: none"> <li>• The sound may be generated by the expansion or contraction of the front panel due to change of temperature.</li> </ul>
<p>Spray mist from the outlet</p> 	<ul style="list-style-type: none"> <li>• Mist appears when the room air becomes very cold because of cool air discharged from indoor unit during <b>COOLING</b> or <b>DRY</b> operation mode.</li> </ul>
<p>The compressor indicator (red) lights on constantly, and indoor fan stops.</p>	<ul style="list-style-type: none"> <li>• The unit is shifting from heating mode to defrost. The indicator will lights go off within ten minutes and returns to heating mode.</li> </ul>
<p>Air will not immediately blow out at the start of HEAT mode</p> 	<ul style="list-style-type: none"> <li>• The air conditioner is ready to blow out enough warm air please wait (2~5 minutes)</li> </ul>
<p>Stop discharging airflow for 5~10 minutes during HEATING operation</p> 	<ul style="list-style-type: none"> <li>• The appliance will defrost automatically, and mist appears from outdoor. After defrosting, it continues to run automatically.</li> </ul>
<p>The remote controller does not function correctly</p> 	<ul style="list-style-type: none"> <li>• If the distance regulate area and it have obstructed between the remote controller and the unit.</li> <li>• Are the batteries exhausted? Replace them with new ones, and repeat the operation again.</li> </ul>

# Installation Instructions

## Installation Diagram



### NOTE

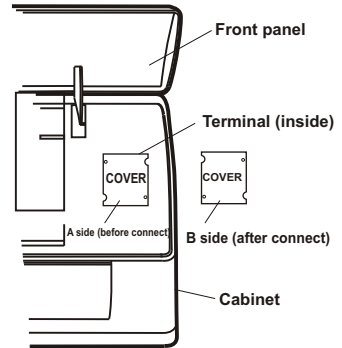
- Above figure is only a simple presentation of the unit, it may not match the external appearance of the unit you purchased.
- Installation must be performed in accordance with the national wiring standards by authorized personnel only.
- Very Important-Installation must done by a registered qualified installer.(Refer warranty section at the back of this manual)

# Installation Instructions

## Connecting of the Cable

### Wiring between the indoor and outdoor units:

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



## Select the best location

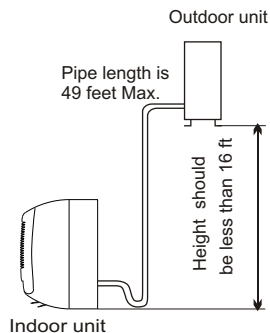
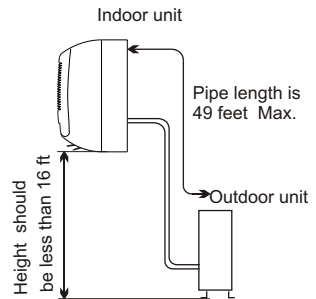
### Location for Installing Indoor Unit

- 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.
- Keep as far as possible away from fluorescent lamps.
- 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 so as not to increasing operation noise.
- Where there is no blockage for air outlet.

### Installation Diagram

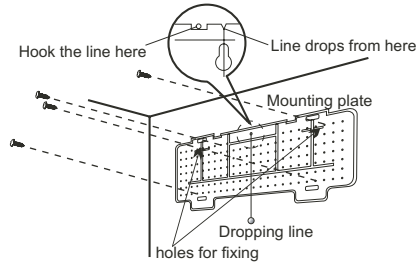


# Installation Instructions

## Indoor Unit Installation

### 1. Installing the Mounting Plate

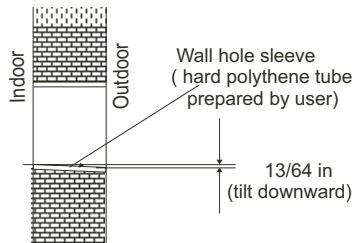
- Decide an installing location for the mounting plate according to the indoor unit location and piping direction.
- Keep the mounting plate horizontally with a horizontal ruler or dropping line.
- Drill holes of 1"-1/4 in depth on the wall for fixing the plate.
- Insert the plastic plugs to the hole, 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.

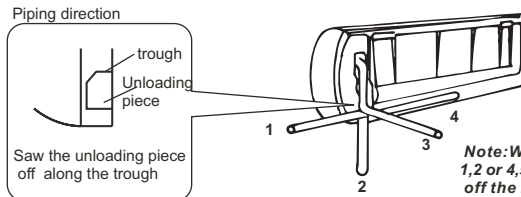
### 2. Drill a Hole for Piping

- 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 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)



**Note:** When installing the pipe at the directions 1, 2 or 4, saw the corresponding unloading piece off the indoor unit base.

- 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.

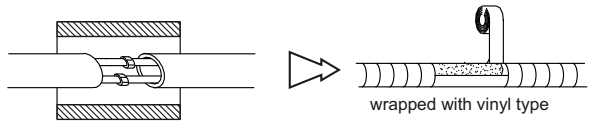


# Installation Instructions

**NOTE**

• **Piping Joints Thermal Insulation:**

Wrap the piping joints with thermal insulation materials and then wrap with a vinyl tape.



Thermal insulation

wrapped with vinyl type

• The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.

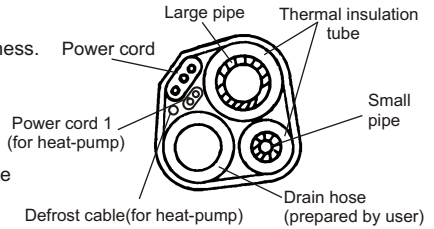
• **Piping Thermal Insulation:**

- Place the drain hose under the piping.
- Insulation material uses polythene foam over 6mm in thickness.

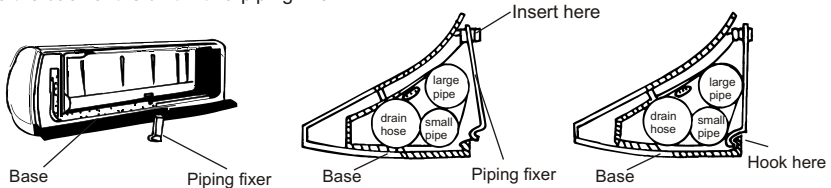
**Note:** Drain hose is prepared by user.

• 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.

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

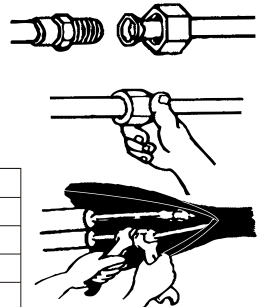


A. Insert the pipe fixer to the slot.

B. Press to hook the pipe fixer onto the base.

**Piping Connection:**

- 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.
- Pre-tighten them with fingers at first, then use the wrenches.



Model	Pipe size	Torque	Nut width
9, 12, 18 K	Liquid Side ( $\Phi$ 6 or 1/4 inch)	1.8kg.m	21/32 in
24 K	Liquid Side ( $\Phi$ 10 or 3/8 inch)	3.5kg.m	7/8 in
9 K	Gas Side ( $\Phi$ 10 or 3/8 inch)	3.5kg.m	7/8 in
12 K (for R410A)	Gas Side ( $\Phi$ 10 or 3/8 inch)	3.5kg.m	7/8 in
12,18 K	Gas Side ( $\Phi$ 12 or 1/2 inch)	5.5kg.m	15/16 in
24 K	Gas Side ( $\Phi$ 16 or 5/8 inch)	7.5kg.m	1-1/16 in

# Installation Instructions

## 4. Connecting of the Cable

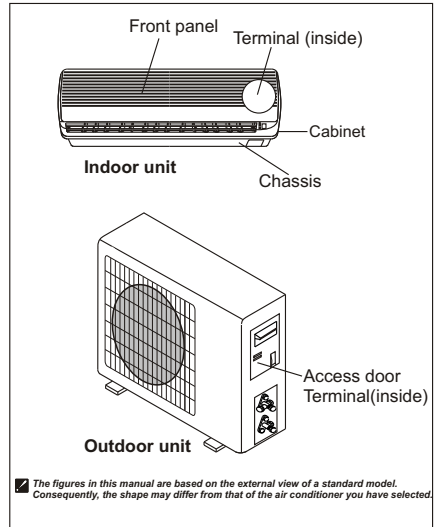
### • Indoor Unit

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 24 K 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. Confirm 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.

### Cable Specifications

Capacity (Btu/h)		Power cord		Power connecting cord		Power connecting cord1(for heat pump)	
		Type	Normal cross-sectional area	Type	Normal cross-sectional area	Type	Normal cross-sectional area
Fixed	9K	H05VV-F	1.0mm $\times$ 3	H05RN-F	1.0mm $\times$ 3	H05RN-F	0.75mm $\times$ 2
	12K	H05VV-F	1.0mm $\times$ 3	H05RN-F	1.0mm $\times$ 3	H05RN-F	0.75mm $\times$ 2
			(1.5mm $\times$ 3)		(1.5mm $\times$ 3)		
	18K	H05VV-F	1.5mm $\times$ 3	H05RN-F H07RN-F	1.5mm $\times$ 3	H05RN-F	0.75mm $\times$ 2
	24K	H07RN-F	2.5mm $\times$ 3	H05RN-F	0.75mm $\times$ 6(heat pump) 0.75mm $\times$ 4(cool only)	/	/
28K,30K	H07RN-F	4.0mm $\times$ 3	H05RN-F	0.75mm $\times$ 4	/	/	
Inverter	9K,12K	H05VV-F	1.0mm $\times$ 3	H07RN-F	1.0mm $\times$ 4	/	/
			(1.5mm $\times$ 3)		(1.5mm $\times$ 4)		
	18K	H05VV-F	1.5mm $\times$ 3	H07RN-F	1.5mm $\times$ 4	/	/
	22K	H05VV-F	1.5mm $\times$ 3	H07RN-F	1.5mm $\times$ 4	/	/
24K	H05RN-F H07RN-F	2.5mm $\times$ 3	H07RN-F	2.5mm $\times$ 4	/	/	

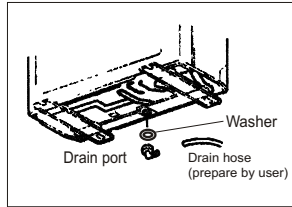
**Note:** Above cables should be UL approved.

# Installation Instructions

## 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 to 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.

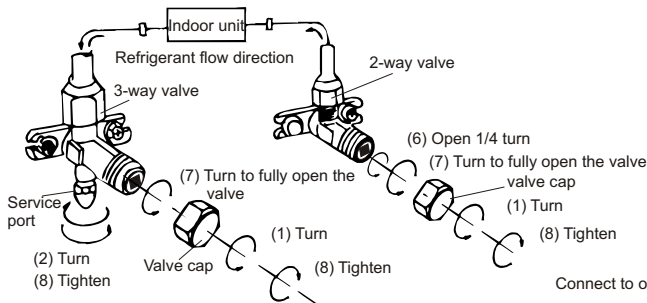
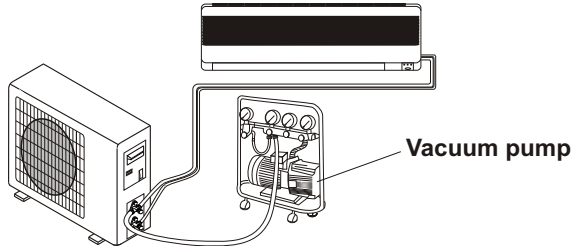
### 3. Outdoor Unit Piping Connection

- 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.

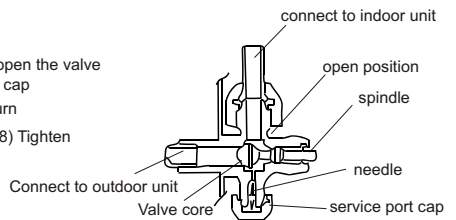
### 4. Outdoor Unit Cable Connection (see previous page)

## 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.



### 3-way valve diagram



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

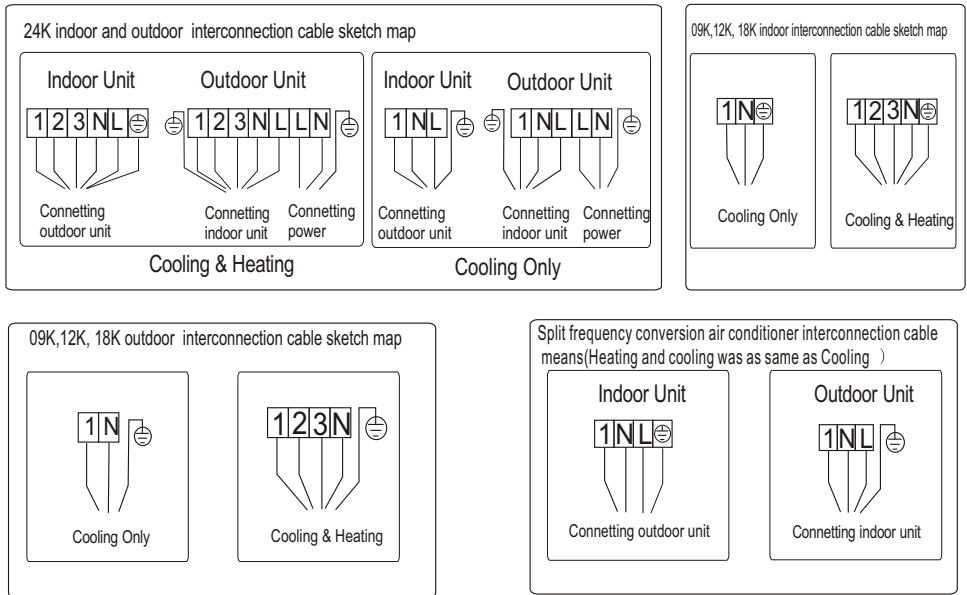
# Installation Instructions

## Interconnection Cable

- (1) Take off the cover for Interconnection cable of outdoor unit.
- (2) Take off the block for Interconnection cable, then put the core of the power wire to the terminal and fix it according to the diagrams pasted to indoor and outdoor unit separately.
- (3) Fix the accessory cable with the Interconnection cable block.
- (4) Confirm the fixing of the accessory cable is ok.
- (5) Fix the cover for Interconnection cable on.

Diagram for installation of Interconnection cable  
( please see the pasted diagram instruction on the body first)

### Circuit Diagram



**Note: Some models are designed without the connecting terminal in indoor unit, please subject to the connection diagram of the product.**

# Installation Instructions

## 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.

## Test Running

- Connect to the power source, check if the function selection keys on the remote controller are working properly.
- Check if the room temperature adjustments and timer settings are working properly.
- Check if the drain is smooth.
- Check if there is any abnormal noise or vibration during operation.
- Check if there is leakage of refrigerant.

### ATTENTION:

If there is no power plug along with the air conditioner, The power cord should be connected to an air switch ,whose current carrying capacity should be more than 20A and the minimum open-circuit distance among the live polar pole, the neutral polar pole and the ground polar pole should be more than 3mm. If any malfunctions, please cut off the supply by the air switch and contact the manufacturer or its service agent.

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

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

### NOTE

- 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 9K, 12K, 18K, 24K is 50T with rating 3.15 A, 250V; Type of fuse used on inverter outdoor unit controller for 7K, 9K, 12K is 61T with rating 15 A, 250V, for 18K, 24K is 65TS with rating 25A, 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 1/8 in placed in an accessible position even after installation.
- Please make replacing with the special assembly purchasing from our factory or our service center if something wrong with Interconnection cable.
- The security out static air pressure for our products is 0.8-1.05 \* standard pressure.
- The biggest length for our connection pipe can be 49 ft. More 20 g refrigerant is necessary for per meter if the length is over 23 ft. The biggest diversity for altitude between indoor and outdoor unit is 16 ft.
- Please do not place valuable things under the unit after installation.

# **KLIMAIRE<sup>®</sup> ≈**

The Klimaire logo is a registered Trademark of Klimaire Products inc.  
Copyright 2010 Klimaire Products Inc.

2190 NW 89 Place, Doral, FL 33172 - USA

Tel: (305)594-4972 Fax (305) 675-2212

[www.klimaire.com](http://www.klimaire.com) [sales@klimaire.com](mailto:sales@klimaire.com)