

AIR CONDITIONER OWNER' S MANUAL







ENGLISH


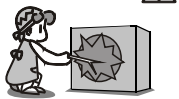

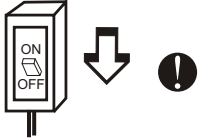




Thank you for selecting super quality Air Conditioner. To ensure satisfactory operation for many years to come, this Owner's Manual should be read carefully before using your air conditioner. After Reading, store it in a safe place. Please refer to the manual for questions on use or in the event that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

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 death, serious injury, etc.

 <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.</p>	 <p>Keep the power supply circuit breaker from dirt and connect the power supply cord with it firmly and correctly, lest electric shock or fire be caused by a wrong wiring.</p>	 <p>Do not clean the appliance with gasoline, basic or acid detergent.</p>
 <p>Do not knit, pull or press the power supply cord, lest the power supply cord be broken. 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. Since 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 time. It is advisable to let the air flow be deflected to all the room.</p>
 <p>Stop the appliance and then turn off the power supply circuit breaker immediately when something is wrong during operation.</p>	 <p>It is advisable to install, repair or move the appliance by a licenced person.</p>	 <p>Prevent the air flow from reaching the gas burners and stove.</p>
 <p>Do not employ the appliance to dry clothes or cool food, etc.</p>	 <p>Do not put any objects on the outdoor unit.</p>	 <p>It is the user's responsibility to make the appliance be grounded according to local codes or ordinances by a licenced technician.</p>

Features and Functions

LENGTHWAYS AIR SWING

Automatic swing of supply air in horizontal direction. The flap moves automatically in left and right direction to spread the conditioned air evenly throughout the room.

IONIZER (Optional)

The IONIZER can make the air more fresh and more comfortable.
Important notice: The IONIZER will turn ON or OFF automatically when the unit turns ON or OFF. It can't be control independently by remote controller.

AUTO CHANGE OVER

The operation mode (cooling,dry,heating) is switched automatically to maintain the set temperature, and the set temperature is kept constant at all times. For more detail, please refer to FEEL model operation procedure.

SLEEP TIME

When the SLEEP button is pressed during heating mode, the air conditioner's thermostat setting is gradually lowered during the period of operation; throughout cooling mode, the thermostat setting is gradually raised during the period of operation. When the set time is reached, the unit automatically turns off.

WIRELESS REMOTE CONTROL UNIT

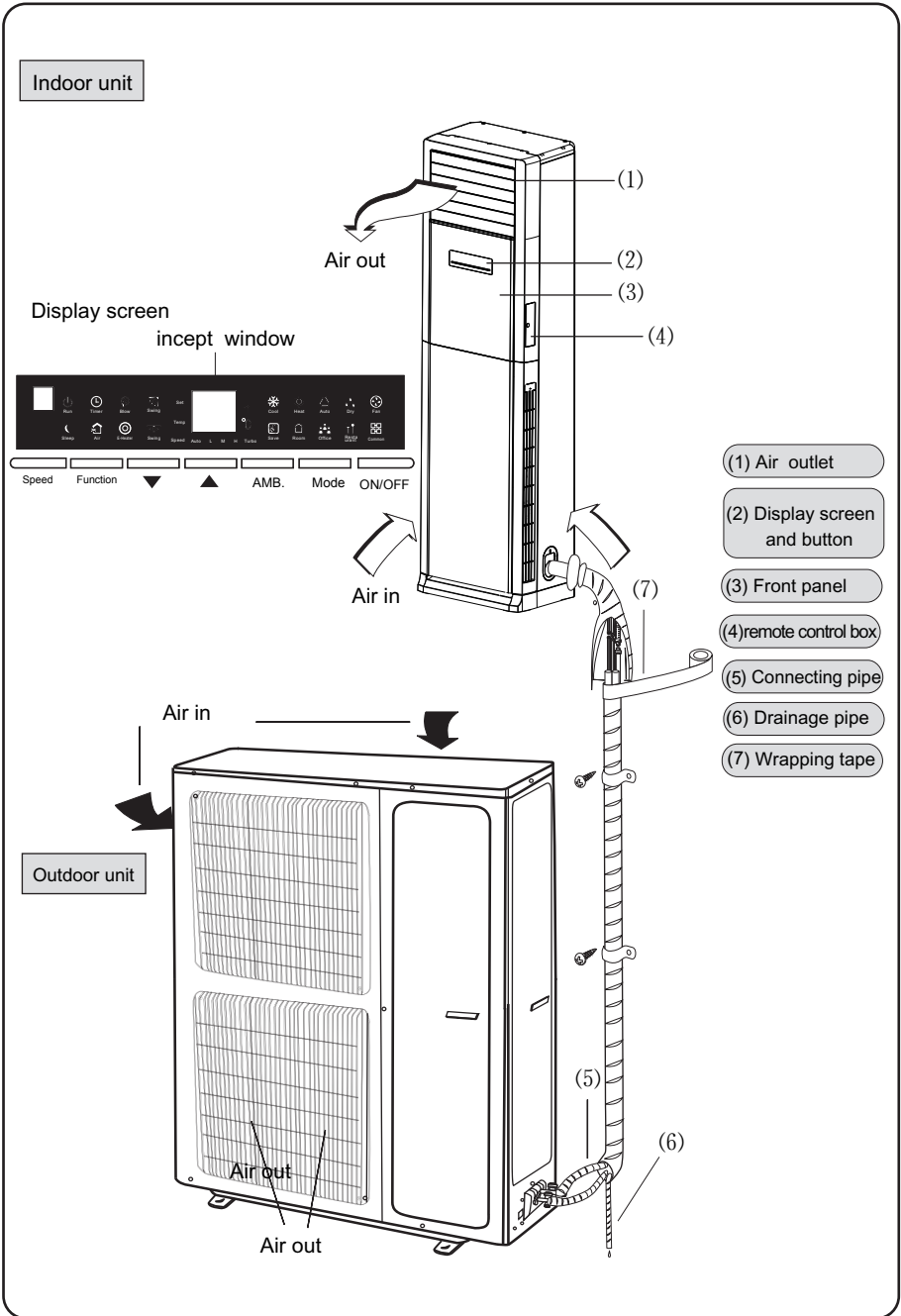
The wireless remote control unit allows convenient control of air conditioner operation.

Operating condition

Temperature Range:

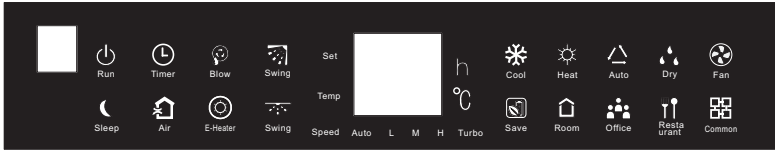
R410A & R407C		Indoor		Outdoor	
		DB[°C]	WB[°C]	DB[°C]	WB[°C]
Cooling	Upper Limit	32	23	46	NA
	Lower Limit	21	15	21	NA
Heating	Upper Limit	27	NA	24	18
	Lower Limit	10	NA	-9	-10

◆ Names of Each Part of the Unit



Names and Functions of Each Part

Function Buttons of Air Conditioner




Buttons function and displayer



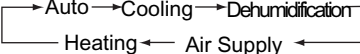
ON/OFF

ON/OFF Button

- Press this button, to turn on the unit. When unit is turned on, the original setting like Timer, Sleep function will be canceled. Note: When the unit is running in Dry mode, press ON/OFF button that can turn on the unit directly.
-  When the unit start up running, the status light will display in red indicated as power turn-on and free-duty.

Mode

Mode Button

- Press the button, the circulating changes of mode are shown as below:

- Auto: the controller will determine its operation mode according to changes of room temperatures under this mode.
 Cooling: display cooling state.
 Dehumidification: reduce temperature and keep the setting room temperature without any change.
 Air supply: The compressor doesn't on work and only the indoor blower is on running under this mode.
 Heating: Display the state of heating.
 (Note: Single-cooling machine is not equipped with heating mode)

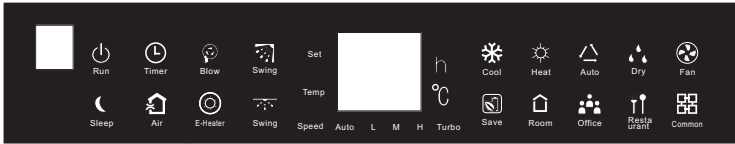
▲ and ▼

▲ and ▼ Button

- Under the situation without setting the function, press ▲ and ▼ buttons, the setting temperature goes up and down 1°C, the regulating range is from 16°C to 30°C.
- Under the conditions of setting the functions, can proceed with the round-trip option of this function (set ▲ and ▼ opposite direction of circulation).
- Keep pressing ▲ and ▼ buttons for 3 seconds continuously, functions of all buttons on the display panel will be conductively-closed, and then press any button, the buzzer will ring once while "LC" is flashing for three times on the location of double 8 and resume to normal display so as to prompt users that the buttons have been locked up. When keep pressing again the two buttons for another 3 seconds continuously, the function of lockup will be removed and resume to display in normal state.

◆ Names and Functions of Each Part

Function Buttons of Air Conditioner



Buttons function and displayer



▲ and ▼

▲ and ▼ Buttons (Continued)

- After switch-on at first time, if without any button input: 1. consecutively press twice of ▲ buttons in 20 seconds and soon access to the running of forced heating. After the blades of blowing up and down opens to the minimum position, start up running of all loads, indoor and outdoor high-speed blowers. All characters will be displayed when the non-inductive thermometer bulb is broken down. The fault codes of breakdown will be displayed when the inductive thermometer bulb is broken down and then the buzzer rings. After shutdown for five minutes or receiving shutdown signal within 5 minutes, it enter the status of normal standby. 2. consecutively press twice of ▼ buttons in 20 seconds and soon access to the running of forced cooling. After the blades of blowing up and down opens to the minimum position, start up running of all loads, indoor and outdoor high-speed blowers besides the four-way valve and then the buzzer rings. After shutdown for five minutes or receiving shutdown signal within 5 minutes, it enter the status of normal standby. The 1 and 2 Functions are for trial use only.

Speed

Speed Button

- Press this button, the speed can shift in the circulation among of “Auto → Low → Medium → High → Super → Auto”
Note: the function of forced low speed under operation of dehumidification is not available.

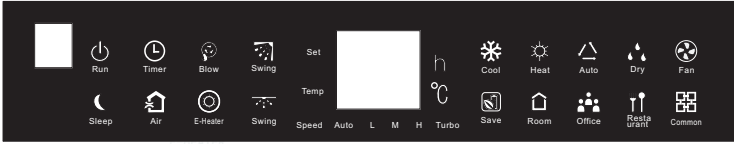
AMB.

AMB. Button

- Press this button, AMB. circulating changes set forth below:
- Adjustable method of AMB. Button: The switch-on of AMB. mode at first time is the default of normal mode, when shutting down and starting up again, the AMB. mod will keep the setting status before last shutting down. Under the modes of energy-saving, conference/office and restaurant, the sleep function will be automatically cancelled. And the sleep function is not adjustable: sleep function is only available on service for cooling, dehumidification and heating under normal mode.

◆ Names and Functions of Each Part

Function Buttons of Air Conditioner



AMB.

AMB. Buttons (Continued)

- Under the modes of living room, restaurant, conference/office, The setting temperature, speed, blowing up and down as well as left and right can be adjustable. If users change the setting temperature, speed, blowing up and down as well as left and right, the operation will run in accordance with the status of setting adjustment. The services setting of blowing up and down as well as left and right of next time start-up will be remained before last shutdown while the setting temperature and speed will run with the default.
- Under the energy-saving mode, while the heating service is on running, the setting temperature, speed, blowing up and down as well as left and right can be adjustable. If users change the setting speed, blowing up and down as well as left and right, it will run according the status of users' setting adjustment. But the setting temperature under the energy-saving cooling function can not be adjusted.

AMB.

AMB. Buttons (Continued)

- The modes of living room, restaurant, conference/office can only be called out by pressing buttons of air conditioner panel. If receiving the signal from remote control when the air conditioner is running the modes of living room, restaurant, conference/office, it will exit from the above-mentioned modes and run according to the modes of remote control.

Function

Function Button

- Under the status of switch-on, Every time press the function button, the settings of up and down, left and right, drying, concurrent heating, timing, air renewal, setting and room temperature can be shifted in sequence. When a certain character is flashing, it indicates can proceed its setting and go on setting by press buttons. The action will be confirmed if without receiving other operating order in 5 seconds. Or press the function button to leave for the confirm.
- Press the function button under the status of running drying service can directly proceed shutdown. Press the function button under the status of shutdown and non-drying can proceed timing setting.

◆ Names and Functions of Each Part

Function Buttons of Air Conditioner

Speed

Function

▼

▲

AMB.

Mode

ON/OFF

Buttons function and displayer

Setting

- Display setting temperature.

Room temperature

- Indicate temperature of indoor circumstances.

Super strong

- When the typeface light is on, it indicates setting the super strong function.

Mode of save

- Indicate mode of save.

Mode of room

- Indicate mode of room.

Office mode

- Indicate mode of office.

Mode of restaurant

- Indicate mode of restaurant.

Common mode

- Indicate common mode.

Swing

Status of swing

- Display status of swing.

Swing

Status of swing

- Display status of swing.

BLOW

BLOW Function

- When the typeface light is on, it indicates setting the BLOW function.

E-HEATER

E-HEATER Function

- This icon on the displayer turns on, indicates that the E-HEATER function turned on, the electrical heating, according to a certain condition, it can put into use.

TIMER

TIMER Function

- When the typeface light is on, it indicates setting the timer function.

SLEEP

SLEEP Function


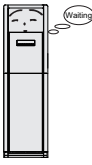





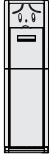


- When the typeface light is on, it indicates setting the sleep function.

◆ Troubleshooting






CAUTION

- Don't attempt to repair the air conditioner by yourself. It may cause the electric shock or fire. Please check the following items before asking for repair. It can save your time and money.

Phenomenon	Troubleshooting
<p>Not operate immediately when the air conditioner is restarted.</p>  	<p>Once the air conditioner is stopped, it will not operate in approximately 3 minutes to protect itself.</p>
<p>There's unusual smell blowing from the outlet after operation is started.</p>  	<p>The unit has no peculiar smell by itself. If has, that is due to the smell accumulated in the ambient.</p> <p>Solution method: Cleaning the filter.</p> <p>If problem still has, so need to clean air conditioner. (Please contact with authorized maintenance center.)</p>
<p>Sound of water flow can be heard during the operation.</p>  	<p>The air conditioner is started, when it is running the compressor started or stopped running, or the unit is stopped, sometimes there is swoosh or gurgle, the sound is due to refrigerant flowing they are not malfunctions.</p>
<p>In COOL mode, sometimes the mist emitted from the air outlet vent.</p>  	<p>When the indoor temperature and humidity are very high, this phenomenon would happen. This is caused by the room air is swiftly cooled down. After running for a while, indoor temperature and humidity will fall down, the mist will die away.</p>
<p>Creaking noise can be heard when start or stop the unit.</p>  	<p>This is caused by the deformation of plastic due to the changes of temperature.</p>

◆ Troubleshooting

Phenomenon	Troubleshooting
<p>The unit can not run</p> 	<ul style="list-style-type: none"> ● Has the power been shut down? ● Is the circuit protection device tripped off or not? ● Is voltage higher or lower? (Tested by professionals) ● Is the Timer correctly used?
<p>Cooling (Heating) efficiency is not good.</p> 	<ul style="list-style-type: none"> ● Is Temp. setting suitable? ● Were inlet and outlet vents obstructed? ● Is filter dirty? ● Are the windows and doors closed? ● Did Fan speed set at low speed? ● Is there any heat sources in the room?
<p>Wireless remote control is not available</p> 	<ul style="list-style-type: none"> ● The unit is interfered by abnormal or frequent functions switchover occasionally the controller cannot operate. At this time, you need to pull out of the plug, and reinsert it. ● Is it in its receiving range? Or obstructed? ● To check the voltage in wireless remote control inside is charged, otherwise to replace the batteries. ● Whether the wireless remote control is damaged.
<p>If water leakage in the room</p>	<ul style="list-style-type: none"> ● The air humidity is on the high side. ● Condensing water over flowed. ● The connection position of indoor unit drainage pipe is loosed.
<p>If water leakage in outdoor unit</p>	<ul style="list-style-type: none"> ● When the unit is running in COOL mode, the pipe and connection of pipe would be condensed due to the water cooled down. ● During heating or defrosting operation, the melted water will blow out. ● The water adhered on the heat exchanger will drop during heating operation.
<p>Noise from indoor unit emitted</p>	<ul style="list-style-type: none"> ● The sound of fan or compressor relay is switching on or off. ● When the defrosting is started or stop running, it will sound. That is due to the refrigerant flowed to the reversed direction.

◆ Troubleshooting

Phenomenon	Troubleshooting
Indoor unit can not blow	<ul style="list-style-type: none"> ● In heating procedure, when the heat exchanger temperature of indoor unit is low, it stops blowing in order to avoid blowing cool air (within 90 s). ● When heating, if the outdoor temperature is low and in high humidity, there is much frost formed in the outdoor unit heat exchanger, the unit will automatically defrost, indoor stop blowing fan about 10mins, during the defrosting procedure, there will be water or vapor emitted.
Moisture formed on air inlet grill	If air conditioner is running in a high humidity for a long time, the moisture may condense on the air outlet grill and drip off.
If power indicator blinks, the unit will display E1 If power indicator blinks, the unit will display E3 If power indicator blinks, the unit will display E4 If power indicator blinks, the unit will display E5 If power indicator blinks, the unit will display F1 If power indicator blinks, the unit will display F2 If power indicator blinks, the unit will display F3 If power indicator blinks, the unit will display F4 If power indicator blinks, the unit will display F5	<ul style="list-style-type: none"> ● E1: System high-pressure protection ● E3: System low pressure protection ● E4: Air exhaust pipe high temperature protection ● E5: Over current protection ● F1: Indoor ambient sensor malfunction ● F2: Indoor tube temperature sensor malfunction ● F3: Outdoor ambient sensor malfunction ● F4: Outdoor tube temperature sensor malfunction ● F5: Air exhaust sensor malfunction



Immediately stop all operations and plug out, contact the dealer in following situations.

- ▲ There is harsh sound during operation;
- ▲ The terrible odors emitted during operation;
- ▲ Water is leaking in the room;
- ▲ Air switch or protection switch often breaks;
- ▲ Carelessly splash water or something into air conditioner.

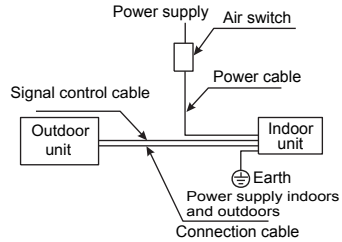
Stop running and pull out of the plug

◆ Notes for Installation

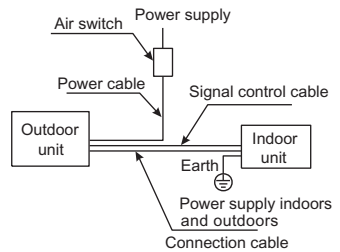
Notes for electric wiring:

1. Special circuit must be used for power supply.
2. The circuit must be installed by special serviceman.
3. Please do the wiring according to the following wiring diagram. The screws must be tightly fastened, the slippery screws must be changed, the tapping screw cannot be used for electric wiring.
4. Please wiring according to the circuit diagram on the unit.
5. Adopts the cables which are attached with the unit, please do not to change the cables optionally, and do not change the length and ends of the cable, if need to adjust, please contact with the local after-sales service center.
6. For the power cord which is without the plug, that cannot be connected the plug for using.
7. The electric wiring connection of indoor and outdoor should not be affected by the stretch and bending.
8. ⊕ is the symbol of earthing, it denotes that the yellow-green dual wire only can be connected with the place with the symbol.
9. After the electric installation completed, make sure to use wire clamp to fix the power cord, power supply connection cable and signal cable tightly, and ensure that there is enough space in the fix position and each connection terminals of the lead wires.
10. Please use about a half kilogram of force, to check whether each lead wire is installed well. When checking the air connector, please encasp it, and check each lead wire of which is connecting with the connector.

Installation diagram, please refer to the following.
For the single phase:



For the three phase:



Note: the unit should be correctly earthed to avoid interference to the complete unit and ensure personal safety.

Requirements for earthing

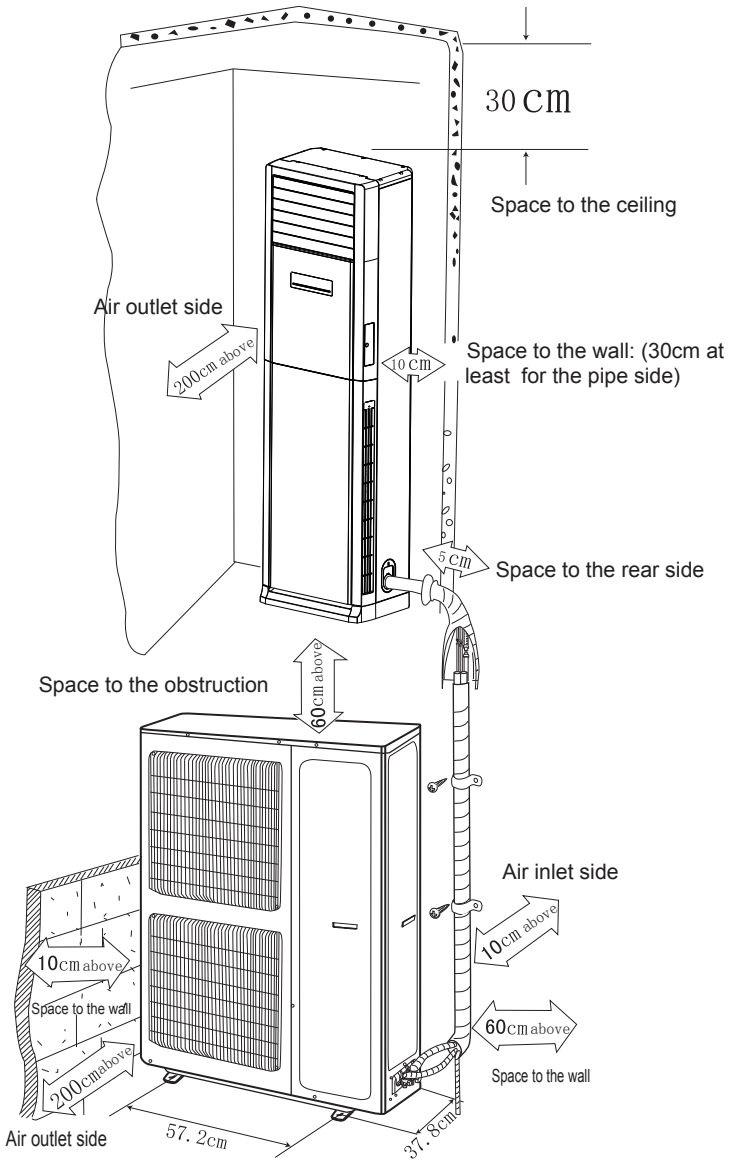
1. The air conditioner is the first class electric appliance:
 2. The yellow and green dual color wire in the air conditioner is earth wire, it cannot be used for other purposes, do not cut off it. Do not fix it by the tapping screw: otherwise, it can cause the electric shock.
 3. Please do not connect the earth wire to the place: The power supply must be reliably earthed.
- ① Water pipe ② Gas pipe ③ Drainage pipe ④ The place where is unreliable suggested by the professional.

Other

The auxiliary electric heater is assembled near the back of evaporator in the indoor unit, it is a tubular metal electric heating element, the power please refer to the nameplate on the unit body.

◆ Installation Dimension Diagram

Installation dimension diagram



Installation of Indoor Unit

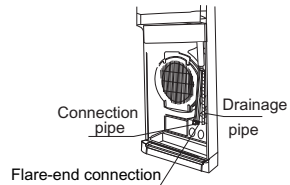
Installation of connection pipe

- Before wiring and piping, please remove the filter after opening the glass panel.

1.As shown in Fig.9,take out the decorative strip at position 1 and then unscrew the screws.Remove the screws fixing the filter after opening the glass panel.At last take out the filter along the arrow direction at position 3.



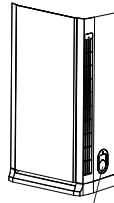
Fig.9



Connection pipe
Drainage pipe
Flare-end connection
Flare-end connection
Fig.10

2.During piping and wiring in the left and at the rear side,the attached accessories should be used,as shown in Fig.11.

Fig.11



Connection pipe
Drainage piping hole

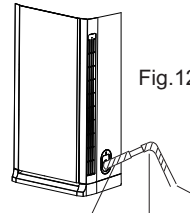


Fig.12

Drainage pipe
Blowing drainage pipe
Wrapping tape

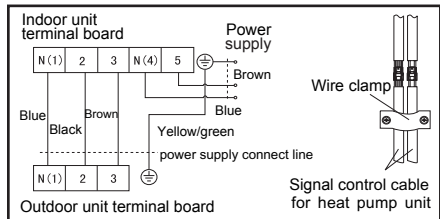
Installation of drainage pipe

1. Make sure drainage pipe is led outdoors (discharge side).
2. Butt-joint drainage pipe in the unit with blowing drainage pipe and fix them with insulated tape.
3. If the drainage pipe should be wrapped with heat-preservation material (at least 9mm thickness), and then wrap it with tape to prevent air from entering into the pipe,which will cause condensation.
4. After connecting, check if water can discharge properly or if there is any leakage. (As shown in Fig.12)

Electric connection

- 1.Open the glass panel.
- 2.Unscrew the screws fixing electric box cover and make it exposed,as shown in the right figure.
- 3.Pass the power connection wire through the pipe-through hole of indoor unit.

Wire connection according to this diagram:
24K:



◆ Installation of Indoor Unit

4. According to the diagram for wiring, according to the marks on wire board for connection correspondingly, as shown in Fig.13.

5. Place the section with sleeve of the power connection wire into the wire groove, then cover the electric box cover, tighten the fixing screw, and tighten the connection wire with clamp.

6. For the unit with signal wire, the signal wire is connected with indoor unit via connector. Clasp the section of signal wire with sleeve with the wire clamp.

7. Recover the electric box cover.

36K 48K:

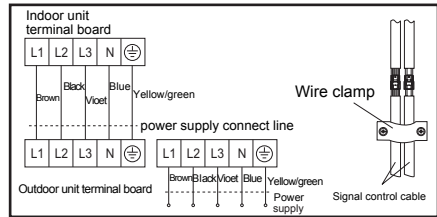


Fig 13

Note:

When the connection wire length isn't enough, please contact with the appointed service shop for buying a dedicated electric wire with enough length, the connection isn't allowed between the wire.

- The wrong wiring connection isn't allowed, it may cause the malfunction of the components.
- Tighten the terminal screw.
- After tightened the screw, and slightly pull the electric wire to confirm whether it is firmed or not.
- Wrong earth wire connection may cause electric shock.
- The electric wire covering plate must be fixed well, and tighten the connection wire, if the wire covering plate isn't installed well, that may lead the dust, moisture enter in or due to the outside force impact, it may cause fire or electric shock.
- An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.

Installation of baffle

- Please install it after installation of connection pipe and drainage pipe according to Fig.14.

1. Loosen the screws and adjust the baffle position up and down to clamp connection pipe/drainage pipe as much as possible.
2. Tighten the screws.

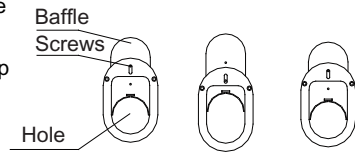


Fig.14