





■ OWNER'S AND INSTALLATION MANUAL V.0112 DUCTLESS AIR CONDITIONER AND HEAT PUMP SYSTEM

E18C121W - C18C121W • E18H121W - C18H121W E18C181W - C18C181W • E18H181W - C18H181W E18C241W - C18C241W • E18H241W - C18H241W

- •In the event of a short circuit, please disconnect the equipment from the central charge unit .
- Please read this whole manual before starting up your air conditioning unit.
- •To receive maintenance please call you nearest authorised service center .
- For the installation of this equipment please contact a professional service center.
- •Please keep this remote control out of reach of children.
- At the risk of electric shock, all the electric installation of this unit must be carried by professionals only.





CONFORMS TO UL STD. 1995 CERTIFIED TO CSA STD. C22.2 NO. 236





CONTENTS

Operation and maintenance	
Notices for operation	1
Notices for use	3
■ Names and functions of each part	4
Operation of wireless remote control	5
■ Emergency operation	10
Clean and care	11
Troubleshooting	13
Installation service	
Notices for installation	16
■ Installation dimension diagram	18
■ Install indoor unit	19
■ Check after installation and test operation	22
■ Installation and maintnance of healthy filter	23
■ Intall outdoor unit	24
Install snow guard (optional)	25



Never attempt.



Be sure to follow this instruction

The physical product may differ from the drawing in this manual for different display If there are some differences between them, please refer to the physical product as the standard.

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 they are away from the appliance.



Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

Please read the following carefully before operating



★ When the voltage is very high, the

components would be easily damaged, when the voltage is very low, the compressor vibrates terribly and that the refrigerant system will be damaged, the compressor and electric components cannot work, the voltage should be stable: there shouldn't be big fluctuation.



★ Be sure to pull out the power plug as

the air conditioner not in use for a long time.

Otherwise, the accumulated dusts that may cause over heating or fire.



★ Never splice the power cord or use an extended cord.



It can cause overheating or fire.

★ Don't leave windows and doors open for

a long time while operating the air conditioner.

It can decrease the air conditioning capacity.



★ Don't block the air. intake or outlet vents

of both the outdoor and indoor

It can decrease the air conditioning capacity or cause a malfunction.



★ The power supply must adopt the

special circuit that with air switch protection and assure it has enough capacity. The unit will be turned on or off according to your requirement automatically, please do not turn on or turn off the unit frequently, otherwise disadvantage effect may be caused to the unit



★ When having a burning smell or smoke, please turn off the

power supply and contact with the service center.



If the abnormity still exists, the unit may be damaged, and may cause electric shock or fire.



★Keep combustilble spray away from the units more than 1m.



It can cause a fire or explosion

★ Don't attempt to repair the air conditioner by yourself.



The wrong repair will lead to an electric shock or fire, so you should contact the service center to repair.



Notices for operation



★ Please don't cut off or damage the power cords and control cords.

If they are damaged, please ask the qualified personnel to change them.

★ To adjust the airflow direction appropriately. When operating the unit, to adjust the vertical and lateral air flow direction by use of remote controller.



Swing louver

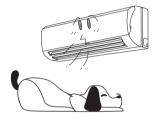
Guide louver



★ Don't insert your hands or stick into the air intake or outlet vents.



★ Don't blow the wind to animals and plants directly. It can cause a bad influence to them.



★ Don't apply the cold wind to the body for a long time.

It can cause the health problems.



★ Don't use the air conditioner for other purposes, such as drying clothes, preserving foods, etc.



★ Splashing water on the air conditioner can cause an electric shock and malfunction.



Don't place a space heater near the air conditioner.





Working principle and special functions for cooling

Principle:

Air conditioner absorbs heat in the room and transmit to outdoor and discharged, so that indoor ambient temperature decreased, its cooling capacity will increase or decrease by outdoor ambient temperature.

Anti-freezing function:

If the unit is running in COOL mode and in low temperature, there will be frost formed on the heat exchanger, when indoor heat exchanger temperature decreased below 0°C the indoor unit microcomputer will stop compressor running and protect the unit.

Working principle and special functions for heating

Principle:

- * Air conditioner absorbs heat in the room and transmit to outdoor and discharged, will increase, its heating capacity will decrease by outdoor ambient temperature. so that indoor ambient temperature increased, so room heating capacity.
- If outdoor temperature got lower, please operate with the other heating ventilating equipments.

Defrosting:

- * When outdoor temperature is low but high humidity, after a long while running, frost will form on outdoor unit, that will effect the heating effect, at this time, the auto defrosting function will act, the heat running will stop for 8-10mins.
- * During the auto defrosting, the fan motors of indoor unit and outdoor unit will stop.
- * During the defrosting, the indoor indicator flashes, the outdoor unit may emit vapor. This is due to the defrosting, it isn't malfunction.
- * After defrosting finished, the heating will recover automatically.

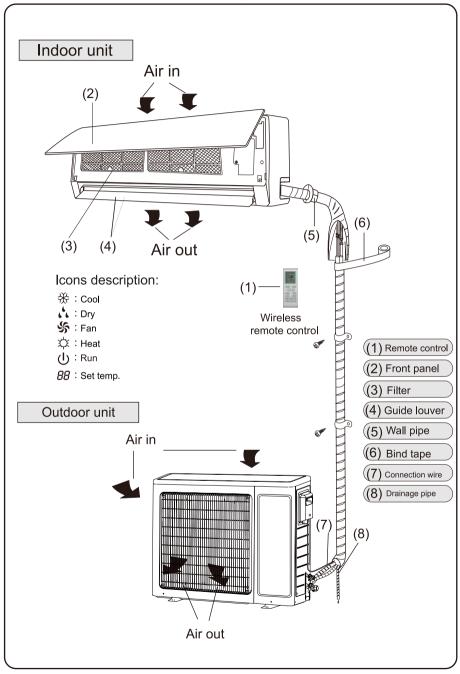
Anti-freezing function:

In "HEAT" mode, if in the following status, the indoor heat exchanger haven't achieve the certain temperature, that the indoor unit will not act, in order to prevent cool air blowing. (Within 3mins)

- 1. Heating starts.
- 2. After Auto defrosting finished.
- 3. Heating under the low temperature.

The climate type of this unit is according to the nameplate.

Names and functions of each part





Names and functions of wireless remote control

Note: Be sure that there are no obstructions between receiver and remote controller; Don't drop or throw the remote control; Don't let any liquid in the remote control or put the remote control directly under the sunlight or any place where is very hot.





Remote control

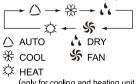
ON/OFF button

 Press this button, the unit will be turned on, press it once more, the unit will be turned off. When turning on or turning off the unit, the Timer, Sleep function will be canceled, but the presetting time is still remained.

MODE

MODE button

Press this button, Auto, Cool, Dry, Fan, Heat mode can be selected circularly. Auto mode is default while power on. Under Auto mode, the temperature will not be displayed; Under Heat mode, the initial value is 28 °C(82°F); Under other modes, the initial value is 25°C(77)°F.



(only for cooling and heating unit. As for cooling only unit, it won't have any action when it receives the signal of heating operation.)

SLEEP SLEEP button

Press this button, Sleep On and Sleep Off can be selected. After powered on, Sleep Off is defaulted. After the unit is turned off, the Sleep function is canceled. After Sleep function set up, the signal of Sleep will display. In this mode, the time of timer can be adjusted. Under Fan and Auto modes, this function is not available.

FAN button

 Press this button, Auto, Low, Middle, High speed can be circularly selected. After powered on, Auto fan speed is default.



Note: Under the Dry mode, the fan speed isn't adjustable, low fan speed is imperative, but when operating this button, the wireless adjustable, low fan speed is imperative,

CLOCK button

● Press this button, the clock can be set up, signal ③ blink and display. Within 5 seconds, the value can be adjusted by pressing + or - button, if continuously press this button for 2 seconds above, in every 0.5 seconds, the value on ten place of Minute will be increased 1. During blinking, repress the Clock button, signal ④ will be constantly displayed and it denotes the setting succeeded. After powered on, 12:00 is defaulted to display and signal ④ will be displayed. If there is signal ④ be displayed that denotes the current time value is Clock value, otherwise is Timer value.

LIGHT LIGHT button

Press this button to select LIGHT on or off in the displayer. When the LIGHT on is set, the icon will be displayed and the indicator light in the displayer will be on. When the LIGHT off is set, the icon will be displayed and the indicator light in the displayer will be off.



Names and functions of wireless remote control

Notice: This is a general use remote controller, for some function wich remote controller doesn't have, if press the corresponding button on the remote controller unit will keep the original running status.



Remote control

X-FAN

X-FAN button

Press this button, can turn on or turn off the drying. In Cool and Dehumidifying mode, press this button and will display " ∜ ", at this time the X-FAN is turned on. If repress this button," ∜ " will be concealed, at this time the X-FAN function is turned off. After powered on, X-FAN OFF is defaulted. When operating the ON/OFF button, or switching mode to Cool or Dehumidifying mode, the X-FAN function will keep the original status. If unit is turned off, X-FAN OFF only can be set up and send the signal. In Auto, Fan as well as Heat mode, X-FAN function can not be set up and there is no " ∜ " displaying."

Note: X-FAN is the alternative expression of BLOW for the purpose of understanding.

- button

● Presetting temperature can be decreased. Press this button, the temperature can be set up, continuously press this button and hold for two seconds, the relative contents can quickly change, until unhold this button and send the order that the *C (°F) signal will be displayed all the time. The temperature adjustment is unavailable under the Auto mode, but the order can be sent by if pressing this button.

+ button

● For presetting temperature increasing. Press this button, can set up the temperature, when unit is on. Continuously press and hold this button for more than 2 seconds, the corresponding contents will be changed rapidly, until unpress the button then send the information, *C (*F)s displaying all along. In Auto mode, the temperature can not be set up, but operate this button can send the signal. Centigrade setting range: 16-30; Fahrenheit scale setting range 61-86.

TURBO

TURBO button

 In Cool or Heat mode, press this button can turn on or turn off the Turbo function.
 After turned on the Turbo function, its signal will be displayed. When switching the mode or changing fan speed, this function will be canceled automatically.

TEMP

TEMP button

- Pressing this button, you could select displaying the indoor setting temperature or indoor ambient temperature. When the indoor unit firstly power on, it will display the setting temperature, if the temperature's displaying status is changed from other status to "[♠]", displays the ambient temperature, 5s later or within 5s, it receives other remote control signal that will return to display the setting temperature. If the users haven't set up the room temperature displaying status, it will display the setting temperature.
 (This function is applicable to partial of models)
- After powered on, the setting temperature displaying is defaulted, (according to customers requirements to display, if there is no requirement that will default to display the presetting temperature and there is no icon displayed on wireless remote control). Press this button, (When displaying 🗋) , it will display setting temperature; (when displaying (1)) it will display indoor ambient temperature, ☐ I current displaying status will not be changed. If current setting displays indoor ambient temperature, when received a remote control signal, it will display presetting temperature, then 5s later, will back to display the ambient temperature. (This function is not available to all the models)

Names and functions of wireless remote control

Notice: This is a general use remote controller, for some function wich remote controller doesn't have, if press the corresponding button on the remote controller unit will keep the original running status.



Remote control

SWING UP AND DOWN BUTTON

Pressathis buttom, toosetup wavging gangle,
which circularly changes as below:
which circularly changes as below:
which circularly changes as below:

This is an universal use remote controller. If remote controller sends the following three kinds of status that the swing status of main unit will be:

When the guide louver start to swing up and down, if turn off the Swing, the air guide louver will stop at current position.

which indicates the guide louver swings up and down between that all five positions.

TIMER ON

TIMER ON BUTTON

Timer On setting: Signal " ON " will blink and display, signal (1) will conceal, the numerical section will become the timer on setting status. During 5 seconds blink, by pressing Đ or Ē button to adjust the time value of numerical section, every press of that button, the value will be increased or decreased 1 minute. Hold pressing Đ or Ē button, 2 seconds later, it quickly change, the way of change is: During the initial 2.5 seconds, ten numbers change in the one place of minute, then the one place is constant, ten numbers change in the tens place of minute at 2.5 seconds speed and carry. During 5s blink, press the Timer button, the timer setting succeeds. The Timer On has been set up, repress the timer On button, the Timer On will be canceled. Before setting the Timer, please adjust the Clock to the current actual time.

TIMER OFF

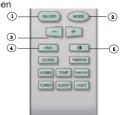
TIMER OFF BUTTON

 Once press this key to enter into TIMER OFF setup, in which case the TIMER OFF icon will blink.
 The method of setting is the same as for TIMER ON.



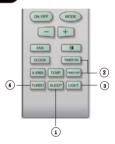
Guide for operation- General operation

- After powered on, press ON/OFF button, the unit will start to run. (Note: When it is powered on, the guide louver of main unit will close automatically.)
- 2. Press MODE button, select desired running mode.
- Pressing +or button, to set the desired temperature. (It is unnecessary to set the temp. at AUTO mode.)
- Pressing FAN button, set fan speed, can select AUTO FAN, LOW, MID and HIGH.



Guide for operation- Optional operation

- 1. Press SLEEP button, to set sleep.
- Press TIMER ON and TIMER OFF button, can set the scheduled timer on or timer off.
- Press LIGHT button, to control the on and off of the displaying part of the unit (This function may be not available for some units).
- 4. Press TURBO button, can turn ON and OFF TURBO function.



Introduction for special function

★ About X-FAN function

This function indicates that moisture on evaporator of indoor unit will be blowed after the unit is stopped to avoid molds.

- 1. Having set X-FAN function on: After turning off the unit by pressing ON/OFF button indoor fan will continue running for about 10 min. at low speed. In this period, press X-FAN button to stop indoor fan directly.
- Having set X-FAN function off: After turning off the unit by pressing ON/OFF button, the complete unit will be off directly.

★ About AUTO RUN

When AUTO RUN mode is selected, the setting temperature will not be displayed on the LCD, the unit will be in accordance with the room temp. automatically to select the suitable running method and to make ambient comfortable.

★ About turbo function

If start this function, the unit will run at super-high fan speed to cool or heat quickly so that the ambient temp. approachs the preset temp. as soon as possible.

★ About lock

Press + and - buttons simultaneously to lock or unlock the keyboard. If the remote controller is locked, the icon will be displayed on it, in which case, press any button, the mark will flicker for three times. If the keyboard is unlocked, the mark will disappear.

- ★ About swing up and down
 - Press swing up and down button continuously more than 2s, the main unit will swing back and forth from up to down, and then loosen the button, the unit will stop swinging and present position of guide louver will be kept immediately.
 - 2. Under swing up and down mode, when the status is switched from off to ∮I, if press this button again 2s later, ∮I status will switch to off status directly; if press this button again within 2s, the change of swing status will also depend on the circulation sequence above.
- ★ About switch between Fahrenheit and Centigrade
 Under status of unit off, press MODE and buttons simultaneously to switch °C and °F.

Changing batteries and notices

- 1. Slightly to press the place with ☑, along the arrowhead direction to push the back cover of wireless remote control. (As show in figure)
- 2. Take out the old batteries. (As show in figure)
- 3. Insert two new AAA1.5V dry batteries, and pay attention to the polarity. (As show in figure)
- Attach the back cover of wireless remote control. (As show in figure)
- ★ NOTE:
- When changing the batteries, do not use the old or different batteries, otherwise, it can cause the malfunction of the wireless remote control.
- If the wireless remote control will not be used for a long time, please take them out, and don't let the leakage liquid damage the wireless remote control.
- The operation should be in its receiving range.
- It should be placed at where is 1m away from the TV set or stereo sound sets.
- If the wireless remote control can not operate normally, please take them out, after 30s later and reinsert, if they cannot normally run, please change them.



Displayer indicator light control of indoor unit

It's a special selective button for the users ,who are not used to the display's light while sleeping.

- ●Get the displayer indicator light on: When setting the light function, the mark ** will display on the remote controller screen by pressing this button. In which case, the displayer indicator light will be on if the AC receives this signal.
- ●Get the displayer indicator light off: If cancel the light function, the mark will be OFF on the remote controller screen by pressing this button. In which case, the displayer indicator light will be off if the AC receives this signal.

Emergency operation

If the wireless remote control is lost or broken, please use the manual switch button. At this time, the unit will run at the Auto mode, but the temperature and fan speed cannot be changed. The operation was shown as below.

To open the panel, the manual switch is on the displayer box

Turn on the unit: At unit turned off, press the button, the unit will run at Auto mode immediately. The microcomputer will sense room temperature to select (Cooling, Heating, or Fan) and obtaing the most situable operating mode.

 Turn off the unit: At unit turned on, press the button, the unit will stop working.

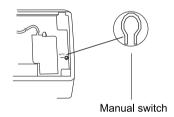


Fig.3





CAUTION

- Turn power off and pull out the power plug before cleaning air conditioner. Or it may cause electric shock.
- Never sprinkle water on the indoor unit for cleaning because it can cause an electric shock,
- Volatile liquid (e.g. thinner or gasoline) will damage the air conditioner. (So wipe the units with a dry soft cloth, or a cloth slightly moistened with water or cleanser.

Clean the front panel(make sure to take it off before cleaning)

① Take off the front panel Along the direction of arrows to lift the front panel up, meanwhile to hold both slots of the front panel

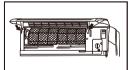


${ ext{@}}$ Washing



③ Install front panel

Place two supporters of the front panel into the slots, along the direction of arrows to cover and clasp the front panel. As show following figure.



Cleaning the air filters (Recommended once every three months)

Note: If dust is much more around the air conditioner, the air filters should be cleaned many times. After taking off the filter, don't touch the fin of indoor unit, in order to avoid hurt your fingers.

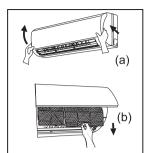
Clean and care

1 Take down the air filter

At the slot of surface panel to open an angle, pull the air filter downward and take it out.



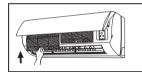
NOTE: Never use water above 45°C to wash, or it can cause deformation or discoloration. Never partch it by fire, or can cause a fire or deformation.





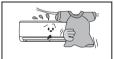
3 Reinsert the filters

Reinsert the filters along with the arrow head, then cover the surface panel and clasp it.



Check before use

- Be sure that nothing obstructs the air outlet and intake vents.
- ② Check that whether ground wire is properly connected or not.
- 3 Check that whether the batteries of air conditioner are changed or not.
- 4 Check that whether the installation stand of the outdoor unit is damaged or not. If damaged, please contact the dealer.



Maintain after use

- Turn main power off.
- (2) Clean the filter and indoor and outdoor units' bodies.
- ③ Repaint the rubiginous place on the outdoor unit to prevent it from spreading.

Troubleshooting



Warning

Do not repair the air conditioner at your discretion. Incorrect repair may cause electric shock or fire, so please contact Authorized Service Center for professional repair. Following checks prior to contact may save your time and costs.

Phenomenon

Troubleshooting

The unit can not operate immediately when the air conditioner is restarted.





 Once the air conditioner is stopped, it will not operate in approximately 3 minutes to protect itself.

There's unusual smell blowing from the outlet after operation is started.



 This is caused by the odors in the room which have been breathed into the air conditioner.

Sound of water flow can be heard during operation.





 This is caused by the refrigerant flowing inside the unit.

Mist is emitted during cooling operation.





 Because the air of the room is cooled down rapidly by the cold wind and it looks like the fog.



Troubleshooting

Troubleshooting	
Phenomenon	Troubleshooting
Cracking noise can be heard when start or stop the unit.	This is caused by the deformation of plastic due to the change of temperature.
Air conditioner does not operate at all.	 Has the power been shut down? Is the wiring loose? Is the leakage protection switch in operation? Is voltage higher or lower? Is TIMER ON in operation?
Cooling (Heating) efficiency is not good.	 Is SET TEMP. suitable? Is air inlet or outlet obstructed? Are air filters dirty? Are the windows and door closed? Is indoor fan speed set at low speed? Is there any other heat source in your room?
Wireless Remote control is not available.	 Remote control can't be used ocassinally when the air conditioner is disturbed or changing its functions frequently. At that time, pull out the power plug and insert it again to recover the operation. Is the remote control out of effective disance to the indoor unit? Are there any obstruction between the remote control and the signal receptor? Replace the worn batteries of remote control if the voltage of the batteries is not sufficient.



Troubleshooting

Phenomenon	Troubleshooting
Indoor unit cannot deliver air	 In HEAT mode, when the temperature of indoor heat exchanger is very low, that will stop deliver air in order to prevent cool air. (Within 3min) In HEAT mode, when the outdoor temperature is low or high humidity, there are much frost be formed on the outdoor heat exchanger, that the unit will automatically defrost, indoor unit stop blowing air for 3-12mins. During the defrosting, there is water flowing out or vapor be produced. In dehumidifying mode, sometimes indoor fan will stop, in order to avoid condensing water be vaporized again, restrain temperature rising.
Moisture on air outlet vent	If unit is running under the high humidity for a long time, the moisture will be condensed on the air outlet grill and drip off.
If water leakage in the room	 The air humidity is on the high side. Condensing water over flowed. The connection position of indoor unit drainage pipe is loosed.
Noise from indoor unit emitted.	 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 reverse direction.
H1: Defrosting	● It is normal.



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.

Carelessy splash water or something into unit.

There is an abnormal heat in power supply cord and power plug.

Stop running and pull out of the plug.



Installation service- Notices for installation



Important Notices

- The unit installation work must be done by qualified personnel according to the local rules and this manual.
- If the air conditioner has not plug, directly connect it into the fixed circuit, a breaker should be installed in the fixed circuit. all pole of this breaker should be switching off and the distance of the contact should be at least 3mm.

Basic Requirements For Installation Position

Install in the following place may cause malfunction. If it is unavoidable contact with service center please:

- Place where strong heat sources, vapors, flammable gas or volatile object are emitted.
- Place where high-frequency waves are generated by radio equipment, welders and medical equipment.
- Place where a lot of salinities such as coast exists.
- Place where the oil (machine oil) is contained in the air.
- Place where a sulfured gas such as the hot spring zones is gene rated.
- Other place with special circumstance.

Indoor Unit Installation Position Selection

- 1. The air inlet and outlet vent should be far from the obstruction, make sure that the air can be blown through the whole room.
- 2. Select a position where the condensing water can be easily drained out, and the place is easily connected for outdoor unit.
- Select a location where the children can not reach.
- 4. Can select the place where is strong enough to withstand the full weight and vibration of the unit. And will not increase the noise.
- 5. Be sure to leave enough space to allow access for routine maintenance. The height of the installed location should be 250 cm or more from the floor.
- 6. Select a place about 1m or more away from TVset or any other electric appliances.
- 7. Select a place where the filter can be easily taken out.
- Make sure that the indoor unit installation should accord with installation dimension diagram requirements.



Safety Requirements For Electric Appliances

- 1. The power supply should be used the rated voltage and AC exclusive circuit, the power cable diameter should be satisfied.
- 2. Don't drag the power cable emphatically.
- 3. It should be reliably earthed, and it should be connected to the special earth device, the installation work should be operated by the professional.
 - The air switch must have the functions of magnetic tripping and heat tripping, in order to protect the short circuit and overloading.
- 4. The min, distance from the unit and combustive surface is 1.5m.

Note:

- Make sure that the Live wire or Zero line as well as the earth wire in the family power socket can not be wrong connected, there should be reliable and no short circuit in the diagram.
- wrong connection may cause fire.

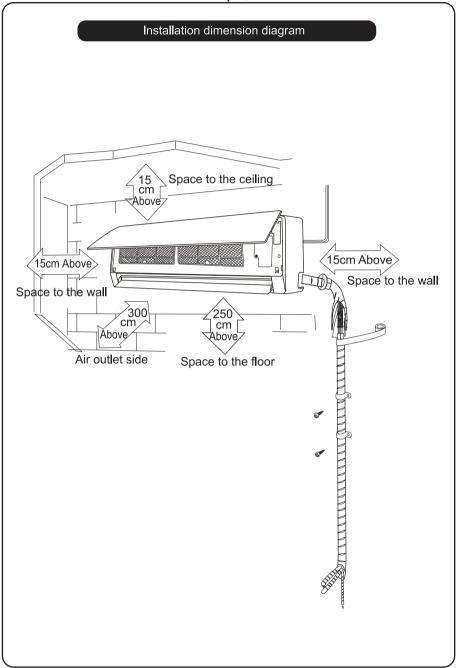
Earthing requirements

- 1. Air conditioner is type I electric appliance, thus please do conduct reliable earthing measure.
- 2. The yellow-green two-color wire in air conditioner is earthing wire and cannot be used for other propose. It cannot be cut off and be fix it by screw, otherwise it would cause electric shock.
- 3. The earth resistance should accord to the National Criterion .
- 4. The user power must offer the reliable earthing terminal. Please don't connect the earthing wire with the following place:
 - 1 Tap water pipe
- ② Gas pipe
- (3) Contamination pipe
- 4 Other places that professional personnel consider them unreliable.

Others

- 1. The connection method of unit and power cable as well as the interconnect method of each isolated component should refer to the circuit diagram stick on the unit.
- 2. The model of the blown fuse and rated value should refer to the silk-screen on the controller or fuse sleeve.
 - 3. The appliance shall be installed in accordance with national wiring regulations.
- 4. 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.
- 5. Children should be supervised to ensure that they do not play with the appliance.

Installation dimension diagram

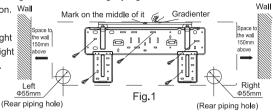




Install indoor unit

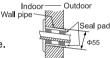
Install the rear panel

- 1. Always mount the rear panel horizontally. As the water drainage pipe at the left, when adjusting the rear panel, this side should not be too high; the right side should be slightly high.
- 2. Fix the rear panel on the selected location. Wall
- Be sure that the rear panel has been fixed firmly enough to withstand the weight of an adult of 60kg, furthermore, the weight should be evenly shared by each screw.



Install the piping hole

- Make the piping hole(Φ55) in the wall at a slight downward slant to the outdoor side.
- Insert the piping-hole sleeve into the hole to prevent the connection piping and wiring from being damaged when passing through the hole.

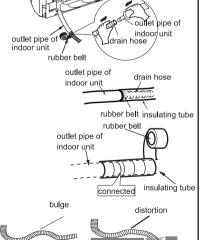


Installation of Drain Hose

 Connect the drain hose to the outlet pipe of the indoor unit. Bind the joint with rubber belt.

- 2. Put the drain hose into insulating tube.
- Wrap the insulating tube with wide rubber belt to prevent the shift of insulating tube. Slant the drain hose downward slightly for smooth drainage of condensing water.

Note: The insulating tube should be connected reliably with the sleeve outside the outlet pipe. The drain hose should be slanted downward slightly, without distortion, bulge or fluctuation. Do not put the outlet in the water.



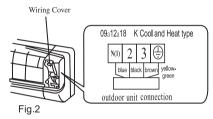
Flooded



Install indoor unit

Connect indoor and outdoor electric wires

- 1. Open the front panel upwardly.
- 2. Screw off the fixing screw of cover plate and screw off cover plate.
- 3. Put the power connection cable through the back of indoor unit wire hole and take it out.
- 4. All the wiring should be connected according to the circuit diagram on the unit.
- 5. Put the power connection cable the section, which with sheath into wire groove, and cover the cover plate, screw on the fixing screw, tighten the connection wire.
- 6. Cover the front panel cover.
- 7. For the cooling and heating unit, signal control wire can be passed through the connection of connector and indoor unit, and use the wire clip that is under the body case, tighten the signal control wire.



Install indoor unit

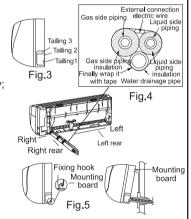
NOTF:

When connecting the electric wire if the wire length is not enough, please contact with the authorized service shop to buy a exclusive electric wire that is long enough and the joint on the wire are not allowed.

- The electric wiring must be correctly connected, wrong connection may cause spare parts malfunction.
- Tighten the terminal screw in order to prevent loose.
- After tighten the screw, slightly pull the wire and confirm whether is it firm or not.
- If the earth wire is wrong connection, that may cause electric shock,
- The cover plate must be fixed, and tighten the connection wire, if it is poor installed, that
 the dust, moisture may enter in or the connection terminal will be affected by outside force,
 and will cause fire or electric shock.
- Leakage circuit-breaker and air switch of correct capacity must be installed.

Install the indoor unit

- The piping can be lead out from right, right rear, left, left rear.
- When routing the piping and wiring from the left or right side of indoor unit, cut off the tailings from the chassis in necessary (show in Fig.3)
 - (1). Cut off the tailings 1 when routing the wiring only;
 - (2). Cut off the tailings 1 and tailings 2 when routing both the wiring and piping. (or 1,2,3);
- 2. Take out the piping from body case, wrap the piping electric wire, water pipe with tape and put them through the piping hole (As show in Fig. 4)
- Hang the mounting slots of the indoor unit on the upper tabs of the rear panel and check if it is firm enough. (As show in Fig.5)

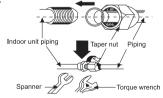


Install the connection pipe

- 1. Align the center of the piping flare with the relevant valve.
- Screw in the flare nut by hand and then tighten the nut with spanner and torque wrench refer to the following.

Tightening torque table

Hex nut diameter	Tightening torque (N·m)
Ф6	15~20
Ф9.52	31~35
Ф12	50~55
Ф16	60~65
Ф19	70~75



NOTE: Firstly connect the connection pipe to indoor unit, then to outdoor unit; pay attention to the piping bending, do not damage the connection pipe; the joint nut couldn't tighten too much, otherwise it may cause leakage.



Check after installation and test operation

Check after installation

Items to be checked	Possible malfunction
Has it been fixed firmly?	The unit may drop, shake or emit noise.
Have you done the refrigerant leakage test?	It may cause insufficient cooling (heating) capacity.
Is heat insulation sufficient?	It may cause condensation and dripping.
Is water drainage well?	It may cause condensation and dripping.
Is the voltage in accordance with the rated voltage marked on the nameplate?	It may cause electric malfunction or damage the part.
Is the electric wiring and piping connection installed correctly and securely?	It may cause electric malfunction or damage the part.
Has the unit been connected to a secure earth connection?	It may cause electrical leakage.
Is the power cord specified?	It may cause electric malfunction or damage the part
Is the inlet and outlet been covered?	It may cause insufficient cooling(heating) capacity.
Has the length of connection pipes and refrigerant capacity been recorded?	The refrigerant capacity is not accurate.

Test Operation

1. Before test operation

- (1) Do not switch on power before installation is finished completely.
- (2) Electric wiring must be connected correctly and securely.
- (3) Cut-off valves of the connection pipes should be opened.
- (4) All the impurities such as scraps and thrums must be cleared from the unit.

2. Test operation method

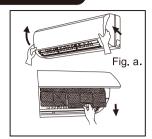
- (1) Switch on power, press "ON/OF" button on the wireless remote control to start the operation.
- (2) Press MODE button, to select the COOL, HEAT, FAN to check whether the operation is normal or not.



Installation and Maintenance of Healthy Filter

Installation Instructions

 Forcibly pull the panel for a specific angle from the two ends of the front panel according to the arrow direction. Then pull the air filter downwards to remove it. (See Fig.a)

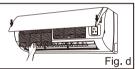


 Mount the healthy filter onto the air filter, (as shown in Fig.b). If the air filter cannot be installed, please mount the healthy filter on the front case. (as shown in Fig.c).





3. Mount the air filter properly along the arrow direction in Fig.d, and then close the panel cover



Cleaning and Maintenance

Take out the healthy filter before cleaning and reinstall it after cleaning according to the installation instruction. Pay special attention to that silver ion filter can't be cleaned with water, while active carbon, photocatalyst, low temperature conversion (LTC) catalyst, formaldehyde eliminator, ca techin or mite killing filter can, but can't with brush or hard things. Dry it in the shade or sun after cleaning, but not by wiping.

Service Life

The healthy filter commonly has its usage lifetime for one year under normal condition. As for silver ion filter, it is invalid when its surface becomes black (green).

 This supplementary instruction is provided for reference to the unit with healthy filter. If the graphics provided herein is different from the physical goods, the latter one shall prevail. The quantity of healthy filters shall be based on the actual delivery.

Install outdoor unit

Electric wiring

- 1. Disassemble the handle on the outdoor unit right side plate.
- 2. Take off cord anchorage. Connect and fix power connect cord and power cord to terminal block.
- 3. Fix the power connection cable and power cord with cord anchorage.
- 4. Ensure wire has been fixed well.
- 5. Install the handle.

Handle for 110~115 V models N(1) 2 3 L N blue black brown Indoor unit POWER for 208~230V models (1) 2 3 L1 L2 G Indoor unit connection POWER

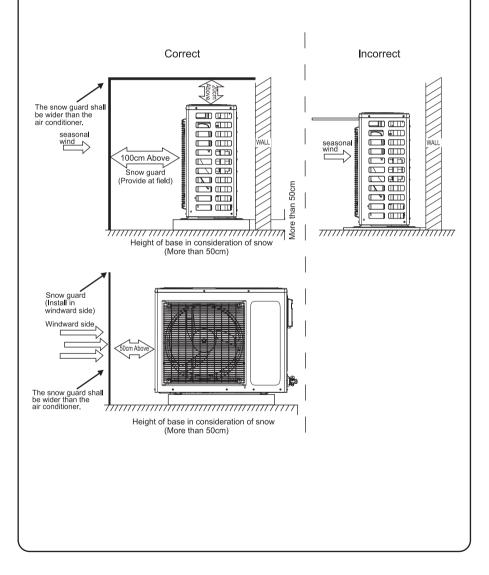
NOTE:

- Wrong wiring may cause spare parts malfunction.
 - After the cable fixed, make sure there should be a free space between the connection and connection and fixing place on the lead wire.

Installation method of snow guard

In considerarion of snow during installation of outdoor units

Note: It is required to equip snow guard and a higher foundation base to prevent snow from covering air inlet and outlet.









CONFORMS TO UL STD. 1995 CERTIFIED TO CSA STD. C22.2 NO. 236



