

KING SERIE

ASH-09AK PT, ASH-13AK, ASH-18AK, ASH-24AK PT

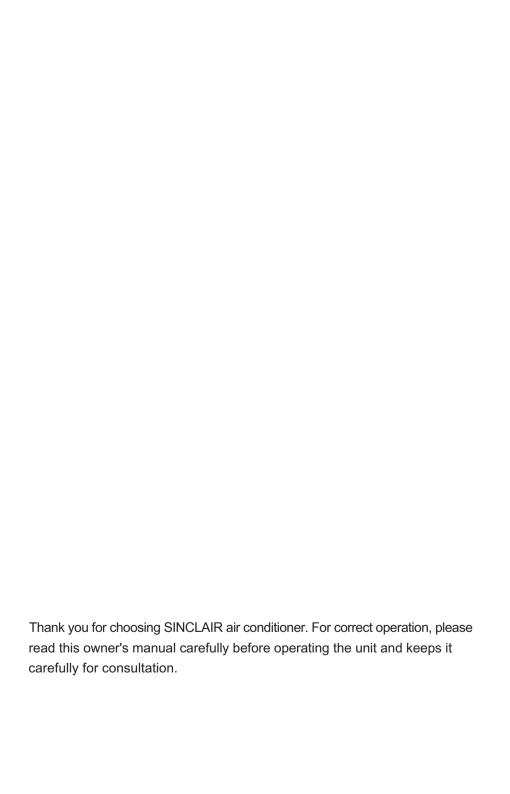


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The figures in this manual may be different with the material objects, please refer to the material objects for reference.
This symbol stands for the items This symbol stands for the items should be forbidden This symbol stands for the items should be followed



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



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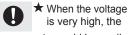


This symbol stands for the items should be followed



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



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 use

★ 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. At operating, the louvers of air conditioner could be adjusted by pressing the SWING button on wireless remote control to change the airflow direction.



★ Don't blow the wind to animals

and plants directly. It can cause

Swing louver

Guide louver



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





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

It can cause the health problems.



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





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







Notices for operation

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 termperature, there will be frost formed on the heat exchanger, when indoor heat exchanger temperature decreased below 0 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.

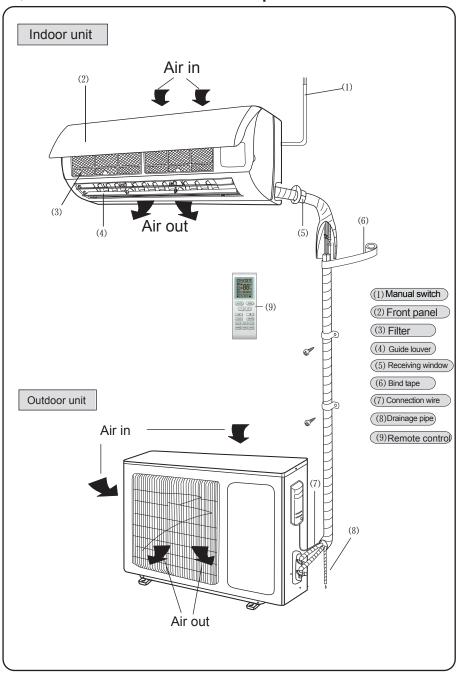
The climate type of this unit is according to the nameplate.

Plasma Technology PLASMA TEC

PLASMA TEC

Only for models ASH-09AK PT and ASH-24AK PT Plasma Air Purification Technology PLASMA TEC produces a natural bio-climate rich in active oxygen molecules, known as ions. It creates optimal quantity of positive and negative oxygen ions. Such an ion-enriched environment is notably cleaner and fresher. Plasma Technology has the capacity of breaking down bacteria into harmless particles, air purification, odor neutralization and reduction of particles in the air. All these qualities make PLASMA TEC Technology invaluable also for allergic persons.

♦ Names and functions of each part



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Operation of wireless remote control

Names and functions of wireless remote control

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



Remote control

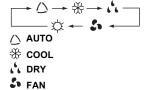
ON/OFF button

 Press this button, the unit will be turned on, press it once more, the unit will be turned off. Sleep function will be canceled, while unit off

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).



C HEAT

(only for cooling and heating unit)

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. Under Blow mode, Low fan speed only can be set up.



CLOCK button

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

TEMP

TEMP button

Press this button, can set up and select: setting temperature (displaying the room), indoor ambient temperature (displaying indoor temperature), outdoor ambient temperature (displaying outdoor temperature), if there no outdoor ambient temperature displaying be required that will keep original display status. and circulate like this. No signal displayed. Remark: When operating this button,the setting temperature is displayed all the time on the wireless remote control.



Operation of wireless remote control

Names and functions of wireless remote control

This wireless remote control is universal, and it could be used for many units, some buttons of this control which are not available to this unit will not be described below.



Remote control

BLOW

BLOW button

Press this button, the Blow On and Blow Off can be set up. Under the Cool and Dry mode, press this button once, the signal "DRY" will be displayed, and BLOW is turned on; When repressing this button once more, signal "DRY" will be concealed, at this time, the BLOW is turn off. After powered on, Blow Off is defaulted. If operating ON/OFF button and changing mode to Cool, Dry, the status of BLOW will stay in the original position. If unit is off, only Blow off can be set up and send the signal. This function is not available under the Auto, Fan and Heat mode and there is no Blow signal displayed.

TURBO

TURBO button

 Under Cool or Heat mode, press this button can turn on or turn off the Turbo function. After the Turbo function turned on, the signal of Turbo will display. The signal will be automatically cancelled if changing the mode or fan speed.

+ button

● Presetting temperature can be increased. 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 if pressing this button. Temperature of Celsius degree setting: 16-30; for Fahrenheit degree setting: 61-86.

- 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 ℃ (°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.

LIGHT

LIGHT button

 Press this button at unit On or Off status, Light On and Light Off can be set up.
 After powered on, Light On is defaulted.



Operation of wireless remote control

Names and functions of wireless remote control

This wireless remote control is universal, and it could be used for many units, some buttons of this control which are not available to this unit will not be described below.



Remote control

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SWING UP AND DOWN BUTTON

 Press this button to set swing angle, which circularly changes as below:

This remote controller is universal.If it receives threes kinds of following status, the swing angle will remain original.

If guide louver is stopped when it is swinging up and down,it will remian its present position.

indicates guide louver swings back and forth in the five places, as shown in the figure.

TIMER ON

TIMER ON BUTTON

• Timer On setting: Signal "ON" will blink and display, signal @ will conceal, the numerical section will become the timer on setting status. During 5 seconds blink, by pressing + or - 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 + or -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 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

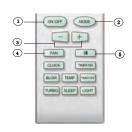
One press this key to enter into TIMER OFF setup, in which case the TIMER OFF icon will blink. The method of setting is the same as for TIMER ON.

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Operation of wireless remote control

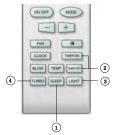
Guide for operation- General operation

- 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.)
- Press MODE button, select desired running mode, or press COOL or HEAT mode to enter into the corresponding operation directly.
- 3. 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.
- 5. Pressing | button, to select the swing.



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 realize the ON and OFF of TURBO function



Introduction for special function

* About blow function

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

- Having set blow 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 blow button to stop indoor fan directly.
- 2. Having set blow 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.

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Operation of wireless remote control

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

- 1. Press swing up and down button continuously more than 2s,the main unit will swing back and forth form 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 > , if press this button again 2s later, > 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 stated above.

★ About switch between Fahrenheit and Centigrade

Under status of unit off, press +and - buttons simultaneously to switch $^{\circ}\mathbb{C}$ and $^{\circ}\mathbb{F}$.

★ About new function of defrosting

It indicates: after starting this function by remote controller and the unit has been under defrost status, If turn off the unit by remote controller, the unit will not stop defrosting until it is finished; if change setting mode by remote controller, the function ,which is set last time, won't be carried out until defrosting finished.

Operation of this function on or off: If remote controller is under off status, press mode button and blow button simultaneously in order to enter or cancel this new function. If the unit is under defrost mode, dual eight position on remote controller will display H1. If switch to heat mode, the position will display H1, which flickers for 5s, in which case, press +/- button, H1 will disappear and setting temp. be displayed.

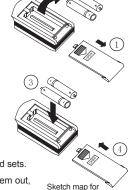
After remote controller is powered on, the new defrost function will be defaulted to be closed.

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)
- Insert two new AAA1.5V dry batteries, and pay attention to the polarity. (As show in figure)
- 4. 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.



changing batteries

Emergency Operation

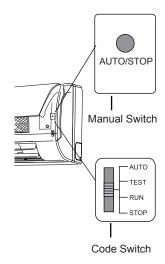
When the wireless remote control is lost or damaged, please use the manual switch, at this time, it is running in Auto Run mode that will not change the temperature setting value and fan speed.

The manual switch can be operated as follow:

- At operation: When the unit stopped running, press ON/OFF button, unit will enter into AUTO RUN mode. The microcomputer will accord to the room temperature to select the (COOL, HEAT, FAN) mode automatically, to obtain the comfortable effect
- At stopping:When the unit is running, press the ON/OFF button of the manual switch, the unit will stop work.

The code swich can be operated as follow:

- At operation: When the unit is stopped running, adjust the code switch to AUTO, the unit will enter into AUTO RUN mode. The microcomputer will accord to the room temperature to select the (COOL, HEAT, FAN) mode automatically, to obtain the comfortable effect.
- At stopping: When the unit is running, adjusts the code switch to STOP position, the unit will stop work.



Clean and care



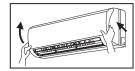
CAUTION

- 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 and the outdoor 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 and take it out forcibly and then can take it off.



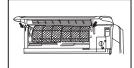
2 Washing

Clean with a soft brush, water and neutral detergent, and then to dry it.(Note: Never use the water above $45\,^{\circ}\text{C}$ to wash the panel, or it could cause deformation or discolouration.)



(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 in righ 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.

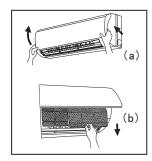
Clean and care

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.

2 Cleaning

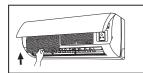
NOTE: Never use water above 45 °C to wash, or it can cause deformation or discoloration. Never partch it by fire, or can cause a fire or deformation.





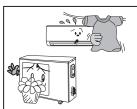
3 Reinsert the filters

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 batties 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

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



Troubleshooting



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.

Troubleshooting Phenomenon Air conditioner does not run upon immediately To protect the air conditioner upon restart after a stop. immediate restart after a stop, the microcomputer controller will delay the unit for 3 minutes before the air conditioner will run The air conditioner itself has no bad smell Air conditioner blows out bad smell when If any. It is the bad smell accumulated from it is initially started. environment. Solution: Clean the air filter. If still any problem, the air conditioner shall be cleaned (Please contact Authorized Service Center) You may hear "Water Flowing" noise When the air conditioner is started, or the compressor is started or stopped during when the air conditioner is running. running or the air conditioner is stopped, sometimes you may hear "hua-hua" or "di-di-" noise. This is the flowing sound of refrigerant other than fault Sometimes a thin fog will flow out of the This might occur when indoor temperature outlet when air conditioner is running and humidity are high. This is because the under cooling mode. indoor air is quickly cooled down. After a period of time, the fog will disappear with the decrease of indoor temperature and humidity. You may hear a slight crack when the This is the sound of friction caused by air conditioner is started or stopped. expansion of panel or other parts due to the change of temperature.

◆Troubleshooting

Troubleshooting	
Phenomenon	Troubleshooting
The unit can not run	 Has the power been shut down? Dose power plug come loose from the socket? Is the circuit protection device tripped off or not? Is voltage higher or lower? (Tested by professionals) Is the Timer correctly used?
Cooling(Heating) efficiency is not good.	 Is Temp. setting suitable? Were inlet and outlet vents obstructed? Is there too much dusts accumulated and obstructed the filter? Are the windows and doors clothed? Did Fan speed set at low speed? Is there any heat sources in the room?
Wireless remote control is not available	 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.
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.
If water leakage in outdoor unit	 When the unit is running in COOL mode, the pipe and connection of pipe would be condensed due to the water cooled down. When the unit is running in Auto Defrosting mode, the ice thawed and flowed out. When the unit is running in HEAT mode, the water adhered on heat exchanger dripped off.
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.

Phenomenon	Troubleshooting
ndoor 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 temperatur is low or high humidity, there are much fro be formed on the outdoor heat exchanger, that the unit will automatically defrost, indocunit stop blowing air for 8-10min.During the defrosting, there is water flowing out or vapobe 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 condense on the air outlet grill and drip off.
	l



- 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 objuct 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 generated.
- 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.
- Select a position where the condensing water can be easily drained out, and the place is easily connected for outdoor unit.
- 3. Select a location where the children can not reach.
- 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 230 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.
- 8. Make sure that the indoor unit installation should accord with installation dimension diagram requirements.

Outdoor Unit Installation Position Selection

- Select a location from which noise and outflow air emitted by unit will not inconvenience neighbors, animals, plants.
- 2. Select a location where there should be sufficient ventilation.
- 3. Select a location where there should be no obstructions cover the inlet and outlet vent.
- 4. The location should be able to withstand the full weight and vibration of the outdoor unit and permit safe installation.
- 5. Select a dry place, but do not expose under the direct sunlight or strong wind.
- 6. Make sure that the outdoor unit installation dimension should accord with installation dimension diagram, convenient for maintenance, repair.
- The height difference of connecting the tubing within 5m, the length of connecting the tubing within 10m.
- 8. Select a place where it is out of reach for the children.
- 9. Select a place where will not block the passage and do not influence the city appearance.

Notices for installation

Safety Requirements For Electric Appliances

- 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.

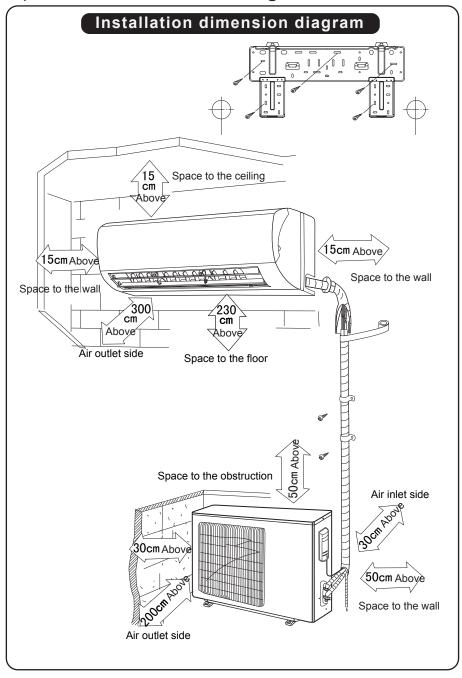
Earthing requirements

- Air conditioner is type 1 electric appliance, thus please do conduct reliable earthing measure.
- The yellow-greentwo-colorwireinairconditioner 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
 - $\ensuremath{\mathfrak{G}}$ Contamination pipe $\ensuremath{\mathfrak{G}}$ 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.

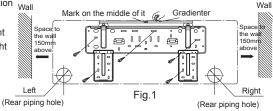
♦ Installation dimension diagram



◆ Install indoor unit

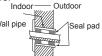
Install the rear panel

- 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
- 3. 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.



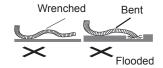
Install the piping hole

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



Install the water drainage pipe

- For well draining, the drain hose should be placed at a downward slant.
- Do not wrench or bend the drain hose or flood its end by water.
- When the long drainage hose passing through indoor, should wrap the insulation materials.



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

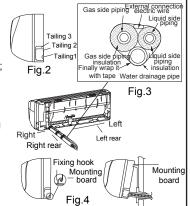
NOTE:

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 elelctric 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.2)
 - (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. 3)
- 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.4)

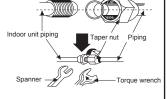


Install the connection pipe

- 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
Ф 9. 52	31~35
Ф 12	50~55
Ф 16	60~65
Ф 19	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.

Install outdoor unit

Electric Wiring

- 1. Disassemble handle of right side plate or front side plate of outdoor unit.
- Take off wire clamp, connect and fix power connect cord to terminal of line bank. Wiring should fit that of indoor unit.
- 3. Fix the power connection cable with wire clamp, for cooling and heating unit, then use the wire clamp to fix the signal control wire, then connect the corresponding connector.
- 4. Ensure if wire has been fixed well.
- 5. Install handle or front side plate.

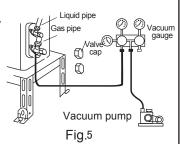
NOTE:

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

Air purging and leakage test

Air purging and leakage test

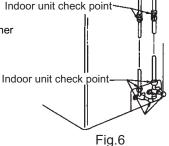
- Connect charging hose of manifold valve to charge end of low pressure valve (both high/low pressure valves must be tightly shut).
- 2. Connect joint of charging hose to vacuum pump.
- 3. Fully open handle handle of Lo manifold valve.
- Open the vacuum pump to evacuate. At the beginning, slightly loosen joint nut of low pressure valve to check if there is air coming inside.
- 5. After finishing evacuation, shut Lo handle of manifold valve to stop the vacuum pump. (Keep evacuating for more than 15 minutes and make sure the reading of multi-meter is $-1.0\times10^5 \mathrm{pa}\,(-76\mathrm{cmHg})$
- 6. Fully open high/low pressure valves.
- Remove charging hose from charging end of low pressure valve.
- 8. Tighten bonnet of low-pressure valve. (As shown in Fig.5)



◆ Install outdoor unit

Leak hunting

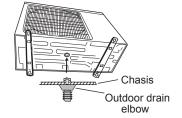
Use soap water or leak hunting meter to check whether the joints is leak.



Outdoor condensation drainage (Heat pump type only)

When the unit is heating, the condensing water and defrosting water can be drained out reliably through the drain hose.

Installation: Install the outdoor drain elbow in \emptyset 25 hole on the base plate, and joint the drain hose to the elbow, so that the wastewater formed in the outdoor unit can be drained out to a proper place.



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/OFF" 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.

ENVIRONMENTAL INFORMATION

This unit contains fluorinated gases with greenhouse effect covered by the Kyoto Protocol. Maintenance and disposal must be carried out by qualified persons only. Refrigerant gas R410A, GWP = 1730

EXTRA REFRIGERANT CHARGE

Pursuant to Regulation EC 842/2006 on certain fluorinated greenhouse gases, in case of extra refrigerant charge, it is compulsory to:

- Fill in the label accompanying the unit inserting the factory quantity of refrigerant charge (see the technical label), the extra refrigerant charge and the total charge.
- Apply the label next to the technical label applied on the unit. For the split-type air conditioner apply on the outdoor unit.

