

◆ Operation and maintenance-notice for operation

Please read the following carefully before operating.

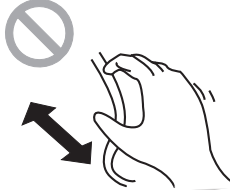
WARNING

★ The power supply must be inserted tightly.



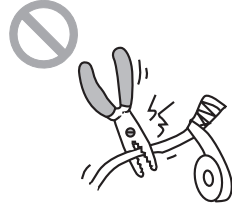
Otherwise, it can cause an electric shock, overheating or fire.

★ Don't pull out the power supply during operating.



It can cause an electric shock or fire.

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



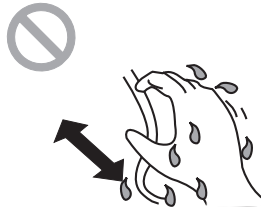
It can cause overheating or fire.

★ Don't use longer power lines and don't share a same socket.



It can cause an electric shock or fire.

★ Don't operate the air conditioner with wet hands.



It can cause an electric shock.

★ Don't pull the power cord to pull out the power supply.



It can cause an electric shock or fire.

★ When cleaning, it is necessary to stop driving and turn off the power supply.



It can cause the electric shock.

★ The air conditioner should be operated with the voltage fluctuation, when the voltage is very low, the compressor vibrates terribly and that will damage the refrigerant system.

220-240V~50Hz


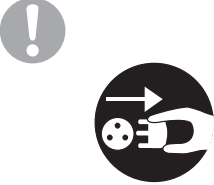

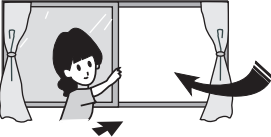
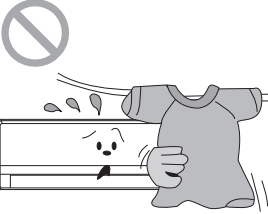
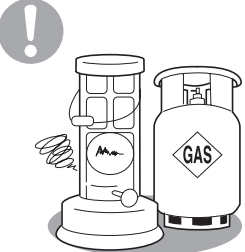
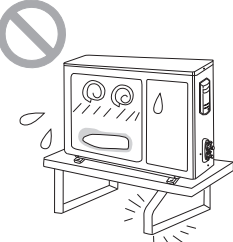
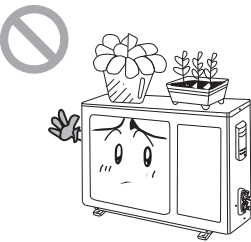
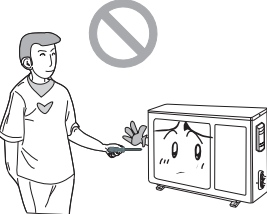


★ When having a burning smell or smoke, please turn off the power supply and contact with the service center.



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

◆ Notices for operation

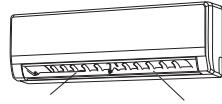
<p>⚠ ★ Earth: The ground be connected!</p>  <p>If not, please ask the qualified personnel to install. Furthermore, don't connect each wire to the gas pipe, water pipe, drainage pipe or any other improper places.</p>	<p>★ Be sure to disconnect power supply when not using the air conditioner for a long time.</p>  <p>Otherwise, the accumulated dust may cause fire or electric shock.</p>	<p>★ Select the most appropriate temperature.</p>  <p>Keep room cooler than outside about 5 degree.</p> <p>It can preclude the electricity wasted.</p>
<p>★ Don't leave windows and doors open for a long time while operating the air conditioner.</p>  <p>It can decrease the air conditioning capacity.</p>	<p>★ Don't block the air intake or outlet vents of both the outdoor and indoor units.</p>  <p>It can decrease the air conditioning capacity or cause a malfunction.</p>	<p>★ Keep combustible spray away from the units more than 1m.</p>  <p>It can cause a fire or explosion.</p>
<p>★ Please note whether the installed stand is firm enough or not.</p>  <p>If it is damaged, it may lead to the fall of the unit and cause injury.</p>	<p>★ Don't step on the top of the outdoor unit or place something on it.</p>  <p>As falling off the outdoor unit can be dangerous.</p>	<p>★ Don't attempt to repair the air conditioner by yourself.</p>  <p>The wrong repair will lead to an electric shock or fire, so you should contact the service center to repair.</p>

◆ Notices for operation

- ★ The power cords of this air conditioner adopt Y-type connection, 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.

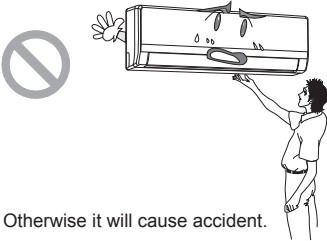


- ★ The airflow direction can be adjusted appropriately. At operating, adjust the vertical airflow direction by adjusting the louvers of upward/downward direction. And then, hold two ends of left and right louver to adjust the horizontal airflow.

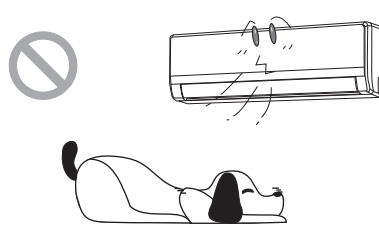


Louver of left/right direction Louver of upward/downward direction.

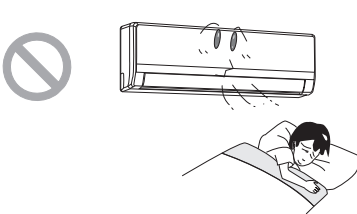
- ★ Don't insert your hands or stick into the air intake or outlet vents.



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

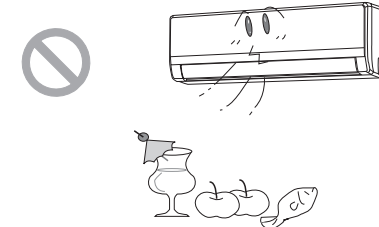


- ★ Don't apply the cold wind to the body for a long time.



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.



Or CO toxicosis may occur for incomplete burning.

◆ Notices for use

Working principle and special functions for cooling

Principle:

Air conditioner absorbs heat from indoors and then transmit it outdoors for discharging, so that indoor ambient temperature can be decreased. By this principle, its heating capacity will decrease with the increase of outdoor ambient temperature.

Anti-freezing function:

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

Working principle and special functions for heating

Principle:

- * Air conditioner absorbs heat from outdoors and then transmit it indoors for discharging, so that indoor ambient temperature can be increased. By this principle, its heating capacity will decrease with the decrease of outdoor ambient temperature.
- * This heating air circulation system can enhance the indoor temperature in a short time.
- * 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 in heat exchanger of outdoor unit, which effects heating effect, at this time, auto defrosting function will act, the heat running will stop for 3-12mins.
- * During the auto defrosting, the fan motors of indoor unit and outdoor unit will stop.
- * During the defrosting, the indoor indicator flickers, temperature displays H1, the outdoor unit may emit vapor. which is due to the defrosting, it isn't malfunction.
- * After defrosting finished, the heating will recover automatically.

Angle of air guide

- * Please do not manually adjust the guide louver board angle. After adjusted, the guide louver board may not close fully. At this time, it is need to pull out the power plug of the air conditioner, then wait for 10s later, reinsert the power plug, the guide louver board can reset.

Anti-cool wind function:

In "Heat" mode, under the following three kinds of state, if indoor heat exchanger doesn't arrive at certain temp., indoor fan will not act, in order to prevent cool wind blowing(within 2 mins):

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

Gentle Breeze

In the following situation, the indoor unit may blow gentle breeze, and the guide louver rotate to a certain position:

1. In "Heat" mode, the unit turned on, the compressor doesn't arrive the starting condition;
2. In "Heat" mode, the temperature arrive at the setting value and the compressor stop running about 1min.

The conditions of unit can't normally run

The following temperature range protection device may act, that may cause stop running.

"HEAT" running	Outdoor temp. above 24°C	"COOL" running	Outdoor temp. above 43°C	"DRY" running	Indoor temp. below 18°C
	Outdoor temp. below -7°C		Indoor temp. below 21°C		
	Indoor temp. above 27°C				

Under the relative humidity above 80% (doors and windows opened) when cooling or dehumidifying for a long time, there will be dew dripping off near the air outlet.

Quiet Design:

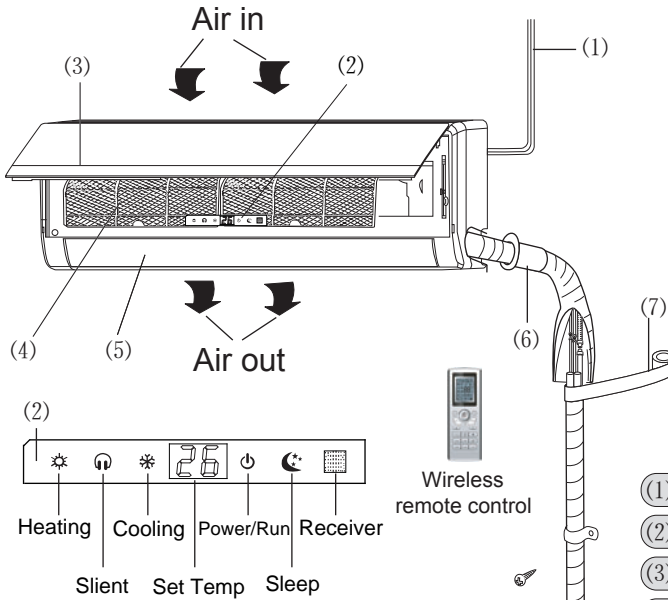
- * Under COOL mode, when selecting and entering "Auto Quiet Design" function, within the initial 10mins, the noise may loud.

Air Exchange:

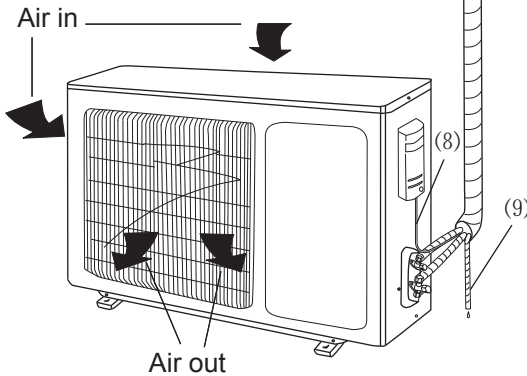
- * This function could be used and arranged in pairs with air conditioner and also could be used under no unit starting condition for sole use, the detailed introduction please refer to the operation method "Air Exchange" of remote control. The other notices please refer to "Operation and installation guidelines for independent air exchange device".

◆ Names and functions of each part

Indoor unit



Outdoor unit



- (1) Power cable
- (2) Displayer
- (3) Front panel
- (4) Filter
- (5) Guide louver
- (6) Wall pipe
- (7) Bind tape
- (8) Connection wire
- (9) Drainage pipe

◆ Operation of wireless remote control

Name and function 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 and put the remote control directly under the sunlight or any place where is very hot.

Signal transmitter



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).



△ AUTO

❄ COOL

💧 DRY

🌀 FAN

☀ HEAT

(only for cooling and heating unit)

FAN

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

CLOCK button

- Press this button, the clock can be set up, signal ① 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 or Confirm button, signal ① will be constantly displayed and it denotes the setting succeeded. After powered on, 12:00 is defaulted to display and signal ① will be displayed. If there is signal ① 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.

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

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 Icon Blow will be displayed, and BLOW is turned on; When repressing this button once more, Icon Blow 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 °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.

QUIET DESIGN BUTTON

- Press this button, the Quiet status is under the Auto Quiet mode (display "Auto Quiet" signal) and Quiet mode (display "Quiet" signal) and Quiet OFF (there is no signal of "Quiet" displayed), after powered on, the Quiet OFF is defaulted. Note: the Quiet function cannot be set up in Fan and Dry mode; Under the Quiet mode (Display "Quiet" signal), the fan speed is not available.

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.

◆ Operation of wireless remote control

Name and function 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



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 three kinds of following status, the swing angle will remain original.



If guide louver is stopped when it is swinging up and down, it will remain 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.

I FEEL

I FEEL BUTTON

- Press this button once, to turn on the I FEEL function, then the figure of "I FEEL" will be displayed, after every press of other function button, every 200ms to send I FEEL once, after this function started, the remote control will send temperature to the main unit in every 10 minutes. When repress this button, this function will be turned off.



HEALTH BUTTON

- Press this button, the display will circularly changes as below:



- To turn off the unit by remote control, the air exchange function will be automatically turned off; At unit OFF, this function could be solely turned on, at unit off press this button, can set up Air Exchange On (Display "Air exchange" signal) or OFF ("Air Exchange" disappear). There is no Healthy function for this model, but if select "Healthy" status, the main unit will beep, and keep the original running status.




◆ Operation of wireless remote control

Name and function of wireless remote control



SLEEP

SLEEP BUTTON

- Press this button, can select Sleep 1 (), Sleep 2 (), Sleep 3 () and cancel the Sleep, circulate between these, after electrified, Sleep Cancel is defaulted.

- Sleep 1 is Sleep mode 1, in Cool, Dehumidify modes: sleep status after run for one hour later, the main unit setting temperature will increase 1°C, setting temperature increased 2°C later, the unit will run at this setting temperature; In Heat mode: sleep status after run for one hour later, the setting temperature will decrease 1°C, 2 hours later, setting temperature will decrease 2°C, then the unit will run at this setting temperature.

- Sleep 2 is sleep mode 2, that is air conditioner will run according to the presetting a group of sleep temperature curve.

In Cool mode:

(1) When setting the initial temperature 16-23°C, after turned on Sleep function, the temperature will be increased 1°C in every hour, after 3°C later the temperature will be maintained, after 7hours later, the temperature will be decreased 1°C, after that the unit will keep on running under this temperature;

(2) When setting the initial temperature 24°C~27°C, after turned on Sleep function, the temperature will be increased 1°C in every hour, after 2°C later the temperature will be maintained, after 7hours later, the temperature will be decreased 1°C, after that the unit will keep on running under this temperature;

(3) When setting the initial temperature 28°C~29°C, after turned on Sleep function, the temperature will be increased 1°C in every hour, after 1°C later the temperature will be maintained, after 7hours later, the temperature will be decreased 1°C, after that the unit will keep on running under this temperature;

(4) When setting the initial temperature 30°C, under this temperature setting, after 7hours later, the temperature will be decreased 1°C, after that the unit will keep on running under this temperature;

In Heat mode:

(1) Under the initial presetting temperature 16°C, it will run under this setting temperature all along.

(2) Under the initial presetting temperature 17°C~20°C, after Sleep function started up, the temperature will decrease 1°C in every hour, after 1°C decreased, this temperature will be maintained.

◆ Operation of wireless remote control

Name and function of wireless remote control



SLEEP
SLEEP BUTTON

(3) Under the initial presetting temperature $21^{\circ}\text{C} \sim 27^{\circ}\text{C}$, after Sleep function started up, the temperature will decrease 1°C in every hour, after 2°C decreased, this temperature will be maintained.

(4) Under the initial presetting temperature $28^{\circ}\text{C} \sim 30^{\circ}\text{C}$, after Sleep function started up, the temperature will decrease 1°C in every hour, after 3°C decreased, this temperature will be maintained.

● Sleep 3- the sleep curve setting under Sleep mode by DIY:

(1) Under Sleep 3 mode, press "Turbo" button for a long time, remote control enters into user individuation sleep setting status, at this time, the time of remote control will display "1 hour later", the setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink (The first entering will display according to the initial curve setting value of original factory);

(2) Adjust "+" and "-" button, could change the corresponding setting temperature, after adjusted, press "Turbo" button for confirmation;

(3) At this time, 1 hour will be automatically increased at the timer position on the remote control, (that are "2 hours later" or "3 hours later" or "8 hours later"), the place of setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink;

(4) Repeat the above step (2)~(3) operation, until 8 hours-later temperature setting finished, sleep curve setting finished, at this time, the remote control will resume the original timer display; temperature display will resume to original setting temperature.


● Sleep3- the sleep curve setting under Sleep mode by DIY could be inquired:

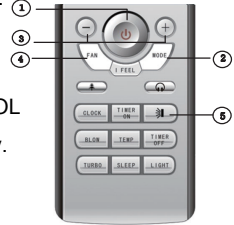
The user could accord to sleep curve setting method to inquire the presetting sleep curve, enter into user individuation sleep setting status, but do not change the temperature, press "Turbo" button directly for confirmation.

Note: In the above presetting or enquiry procedure, if continuously within 10s, there is no button pressed, the sleep curve setting status will be automatically quit and resume to display the original displaying. In the presetting or enquiry procedure, press "ON/OFF" button, "Mode" button, "Timer" button or "Sleep" button, the sleep curve setting or enquiry status will quit similarly.

◆ Operation of wireless remote control

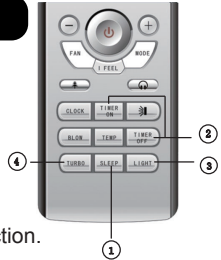
Guide for operation- general operation

1. After powered on, press ON/OFF button, the unit will start to run.
(Note: When it is powered off, the guide louver of main unit will close automatically.)
2. 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.)
4. 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.
2. Press TIMER ON and TIMER OFF button, can set the scheduled timer on or timer off.
3. 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 blown after the unit is stopped to avoid mould.

1. 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. approaches the preset temp. as soon as possible.

◆ 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 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 , 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 MODE and - buttons simultaneously to switch °C and °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.

★ About the Quiet function


If Auto Quiet mode has been selected, after the room temperature reached the setting temperature or 10mins later, the AC will immediately enter into the Quiet running status, at this time the fan speed is not adjustable.

★ About Sleep function

Under the Fan and Auto mode, the Sleep function cannot be set up, under Dehumidify mode, only Sleep 1 can be selected. Select and enter into any kind of Sleep mode, the Quiet function will be attached and started, different Quiet status could be optional and turned off.

◆ Operation of remote control

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 Fig 1.)
- 2.Take out the old batteries.
- 3.Insert two new AAA1.5V dry batteries, and pay attention to the polarity. (As show in Fig 2.)
4. Attach the back cover of wireless remote control.

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 where is 1m away from the TV set or stereo sound sets.
- If the remote control cannot operate normally, please take the batteries out, and then reinsert it 30s later; if it is also abnormal ,please replace the batteries.
- If the main unit needs to be remote controlled, please aim remote controller at the receiver of main unit in order to improve the receiving sensitivity of the main unit.
- When the remote controller sends out signal, a mark  will flicker for about 1s. The bell will ring if the main unit receives effective signal.

Fig.1

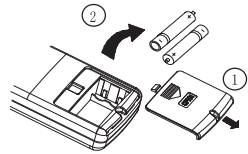
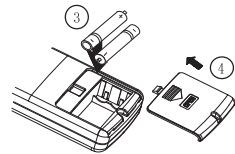


Fig.2





Sketch map for
changing batteries

◆ Emergency operation

Displayer indicator light control of indoor unit

It's a special selective button for the users, who are not accustomed to the light at 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 disappear 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 front case.

- Turn on the unit: At unit turned off, press the button, the unit will run at Auto mode immediately. The microcomputer will accord to the indoor temperature to select (Cooling, Heating, Fan) and obtain the comfortable effect.
- Turn off the unit: At unit turned on, press the button, the unit will stop working.

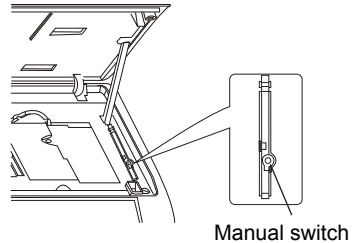


Fig.3

◆ Clean and care



Caution

- Turn power off and disconnect power supply 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)

When cleaning the front panel, please dip the cloth into the water temperature of 45°C below, then to dry the cloth and wipe the dirty part.

Note: Please do not to immerse the front panel in water, due to there are microcomputer components and circuit diagrams on the front panel.

Clean the air filter (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.

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, please see the Fig. 4(a, b).

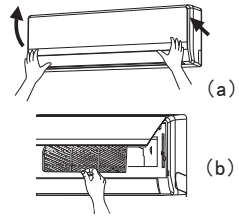
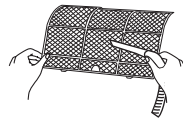


Fig.4

② Take down the air filter

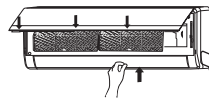
To clean the dust adhering to the filters, you can either use a vacuum cleaner, or wash them with warm water (the water with the neutral detergent should below 45 degree) ,and dry it in the shade.

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



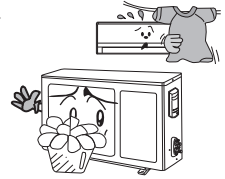
③ Insert the air filter

Reinsert the filters along the direction of arrowhead, and then to cover the cover and clasp it.



Check before use

- ① 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

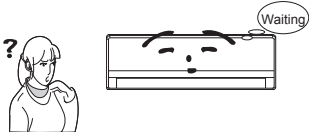
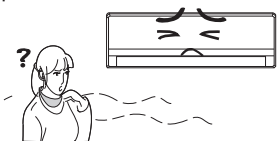


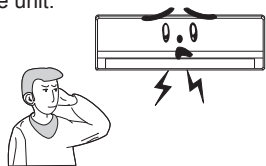
- ① Turn main power off.
- ② Clean the filter and indoor and outdoor units' bodies.
- ③ Clear dust and obstructions from the outdoor unit.
- ④ Repaint the rubiginous place on the outdoor unit to prevent it from spreading.
- ⑤ Adopt the special shield to cover the outdoor unit, avoid the rain water, dust enter into the unit and get rust.

◆ Troubleshooting

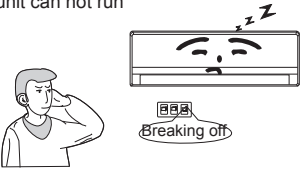
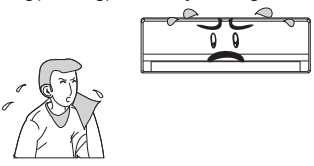
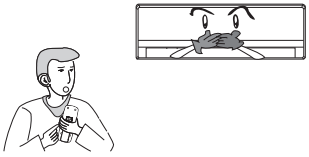


CAUTION

Don't attempt to repair the air conditioner by yourself, it can cause an 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> 	<ul style="list-style-type: none"> Once the air conditioner is stopped, it will not operate in approximately 3 minutes to protect itself.
<p>There's unusual smell blowing from the outlet after operation is started.</p> 	<ul style="list-style-type: none"> The unit has no peculiar smell by itself. If has, that is due to the smell accumulated in the ambient. Solution method: Cleaning the filter. If problem still has, so need to clean air conditioner. (Please contact with the authorized maintenance center.)
<p>Sound of water flow can be heard during the operation.</p> 	<ul style="list-style-type: none"> 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>In COOL mode, sometimes the mist emitted from the air outlet vent.</p> 	<ul style="list-style-type: none"> 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>Creaking noise can be heard when start or stop the unit.</p> 	<ul style="list-style-type: none"> This is caused by the deformation of plastic due to the changes of temperature.

◆ Troubleshooting

Phenomenon	Troubleshooting
<p>The unit can not run</p> 	<ul style="list-style-type: none"> ● Has the power been shut down? ● Is power plug loosed? ● 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. ● 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.
<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 reverse direction.

◆ Troubleshooting

Phenomenon	Troubleshooting
Indoor unit cannot deliver air	<ul style="list-style-type: none"> ● 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 2min) ● 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 3-12min. 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	<ul style="list-style-type: none"> ● 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.



Immediately stop all operations and disconnect power supply, 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 unit
 There is an abnormal heat in power supply cord and power plug.

▶ Stop running and disconnect power supply

After-sales service

- ☆ All the products of our company are guaranteed, please refer to the warranty card.
- ☆ If you have any problem, please contact specified repair center of Gree.



Important Notices

1. The unit installation work must be done by qualified personnel according to the local rules and this manual.
2. 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 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.
2. 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.
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 230cm 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.
9. Do not use the unit in the immediate surroundings of a laundry a bath a shower or a swimming pool.

Outdoor Unit Installation Position Selection

1. 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.
7. 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

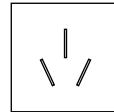
Safety Requirements For Electric Appliances

1. The power supply should be used the rated voltage and AC exclusive circuit, the power cable diameter should be satisfied.
2. Voltage applying range: the normal running range is rated voltage 220V 90%-110%.
3. Don't drag the power cable emphatically.
4. 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.
5. The min. distance from the unit and combustive surface is 1.5m.

Note:

- ♣ In the family, the live wire, neutral wire in the power supply socket that should be connected as the right figure, position cannot be wrong connected, and should be reliably connected, there should be not short circuit in the inside.

Earth (⊕)



- ♣ Wrong connection may cause fire.

Neutral wire (N)

Live wire(L)

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 purpose. It can not be cut off and be fixed 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
 - ① Tap water pipe
 - ② Gas pipe
 - ③ Contamination pipe
 - ④ Other places that professional personnel consider them unreliable.

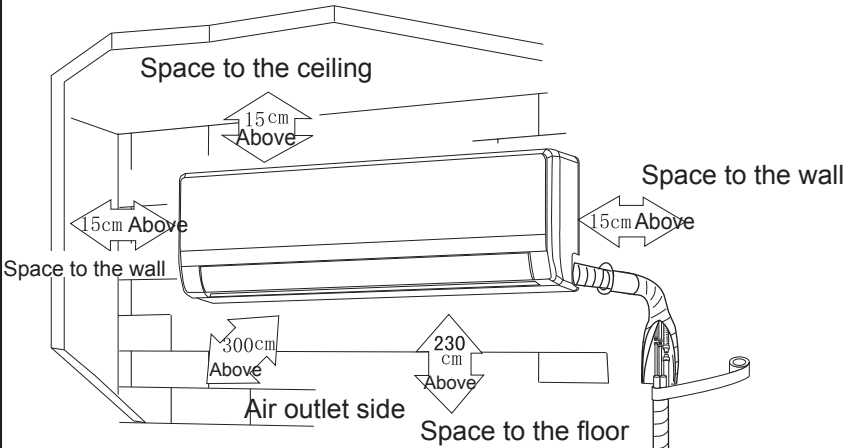
Others

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



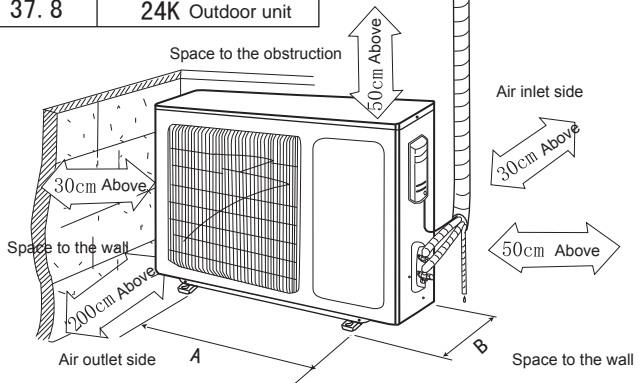
◆ Installation dimension diagram

Installation dimension diagram



- The dimensions of the space necessary for correct installation of the appliance including the minimum permissible distances to adjacent structures

Installation dimension of outdoor units		Applicable units
A (cm)	B (cm)	
54.0	25.6	09K, 12K Outdoor unit
55.0	34.2	18K Outdoor unit
57.2	37.8	24K Outdoor unit



◆ Install indoor unit

Install the rear panel

1. Always mount the rear panel horizontally. Due to the water tray of indoor unit has been adopted the both-way drainage design, the outlet of water tray should be adjusted slightly down when installing, that is taking the outlet of the water tray as the center of a circle, the included angle between the evaporator and level should be 0 or more, that is good for condensing water drainage.

2. Fix the rear panel on the wall with screws. (Where is pre-covered with plastic granula)

3. Be sure that the rear panel has been fixed firmly enough to withstand the weight of an adult of 60kg, further more, the weight should be evenly shared by each screw.

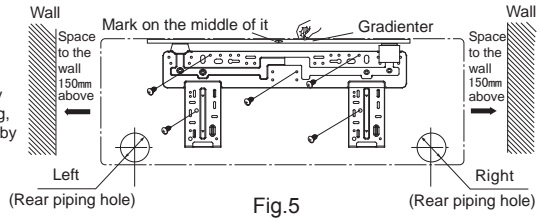
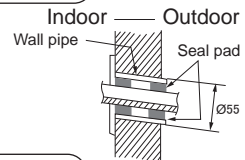


Fig.5

Install the piping hole

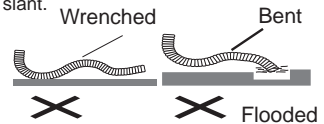
1. Drill a hole ($\Phi 55$) inclined outwards after confirmation of piping hole's location. During installation of air exchange device, please refer to attached sheet of air exchange instruction about aperture.

2. Insert the piping-hole sleeve into the hole to prevent the connection piping and wiring from being damaged when passing through the hole.



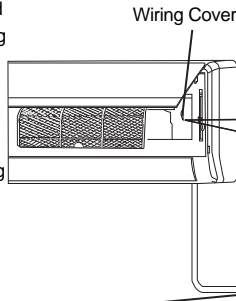
Install the water drainage pipe

- 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

- Open the surface panel.
- Remove the wiring cover [Fig.6(a,b)].
- Route the power connection cord and signal control wire (for cooling and heating unit only) from the back of the indoor unit and pull it toward the front through the wiring hole for connection.
- Reassemble the clamp and wiring cover.
- Recover the surface panel.



For GWCN09JANK1A1A, GWHN09JANK1A1A,
GWCN12JBNK1A1A, GWHN12JBNK1A1A,
GWCN18JCNK1A1A, GWHN18JCNK1A1A

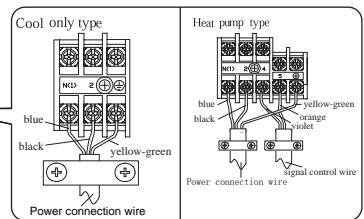
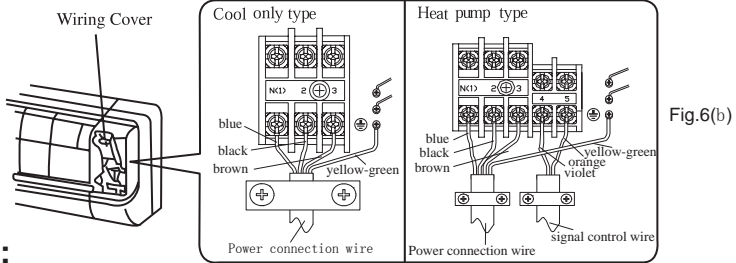


Fig.6(a)

Independent air exchange device connection wire

Warning: Due to one end of independent air exchange device connection wire has been connected in the indoor unit, when electrifying the single unit for testing, the other end of independent air exchange device connection wire may electrify, please do the insulation well and avoid short circuit or electric shock.

For GWCN24JDNK1A1A, GWHN24JDNK1A1A



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, slight pull the wire and confirm whether it is 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.

Install the indoor unit

- The piping can be lead out from right, right rear, left, left rear.

1. 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.7)

- (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.

2. Take out the piping from body case, wrap the piping electric wire, water pipe with tape and pull them through the piping hole (As show in Fig.8)

3. Hange 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.9)

4. The height of the installed location should be 2.3m or more from the floor.

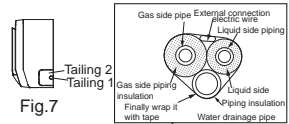


Fig.7

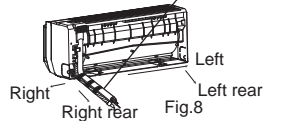


Fig.8

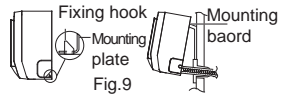
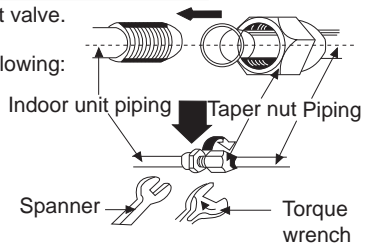


Fig.9

Install the connection pipe

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

Hex nut diameter	Tightening torque (N · m)
Φ6	15~20
Φ 9.52	31~35
Φ 12	50~55
Φ 16	60~65
Φ 19	70~75



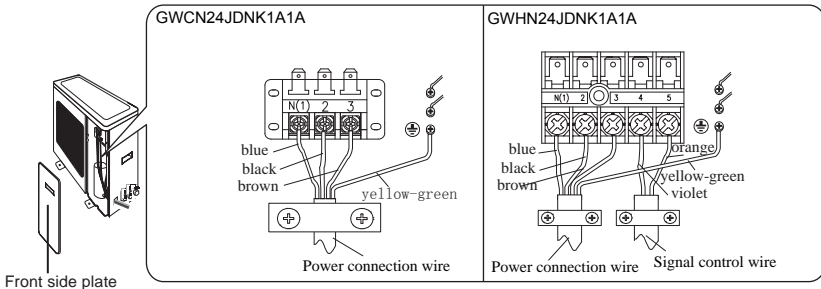
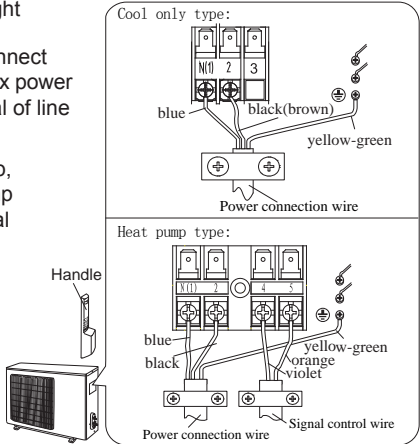
NOTE: Firstly connect the connection pipe to indoor unit, then to outdoor unit; pay attention to the piping bending, do not damage the connection pipe; the joint nut couldn't tighten too much, otherwise it may cause leakage.

◆ Install outdoor unit

Electric wiring

For GWCN09JANK1A1A, GWHN09JANK1A1A, GWCN12JBK1A1A, GWHN12JBK1A1A
GWCN18JCNK1A1A, GWHN18JCNK1A1A

1. Disassemble the handle on the outdoor unit right side plate.
2. Take off wire clamp. Connect and fix power connect cord (for cooling and heating unit, connect and fix power connect cord and signal control wire) 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, use the wire clamp to fix the power connection cable and the signal control wire), then connect the corresponding connector.
4. Ensure wire has been fixed well.
5. Install the handle.



For GWCN24JDNK1A1A, GWHN24JDNK1A1A

1. Remove the front side plate.
2. 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, then connect the corresponding connector.
4. Ensure wire has been fixed well.
5. Install the 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 connection and fixing place on the lead wire.

Air purging and leakage test

1. 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 of Lo manifold valve.
4. 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. (If noise of vacuum pump has been changed, the reading of multimeter is 0) Then tighten the nut.
5. Keep evacuating for more than 15mins and make sure the reading of multi-meter is $-1.0 \times 10^5 \text{pa}$ (-76cmHg).
6. Fully open high/low pressure valves.
7. Remove charging hose from charging end of low pressure valve.
8. Tighten bonnet of low-pressure valve. (As shown in Fig.10)

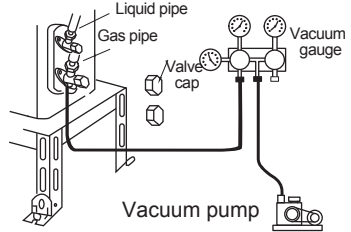
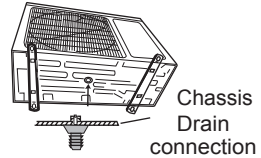


Fig. 10

Condensate drainage of outdoor unit (no for cooling only)

The condensate and defrosting water formed during heating in the outdoor unit can be properly discharged by drainage pipe. Installation method: set the drain connection in $\varnothing 25$ hole of the chassis has been installed and then connect drainage pipe with drain nozzle, so that condensate and defrosting water can be properly discharged.



◆ 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 (Cooling only unit is not available), FAN to check whether the operation is normal or not.

Operation and maintenance

■ Notices for operation	1
■ Notices for use	4
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■ Operation of wireless remote control	7
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Installation service

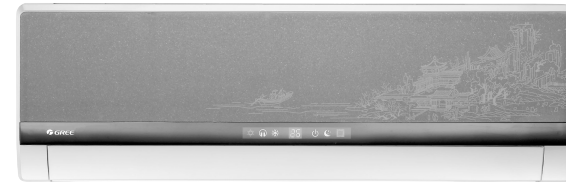
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 This symbol stands for the items should be forbidden.
  This symbol stands for the items should be followed

The figures in this manual may be different with the material objects, please refer to the material objects for reference.



Admiral Series



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OWNER'S MANUAL

Models: GWCN09JANK1A1A GWHN09JANK1A1A
GWCN12JBNK1A1A GWHN12JBNK1A1A
GWCN18JCNK1A1A GWHN18JCNK1A1A
GWCN24JDNK1A1A GWHN24JDNK1A1A

GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI
Add: Jinji west Rd., Qianshan Zhuhai, Guangdong China.
Tel: (0756)-8617555 (After-sales Service Dept.)
Post code: 519070

Thank you for choosing GREE air conditioner. For correct operation, please read this owner's manual carefully before operating the unit and keep it carefully for consultation.

GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI