



OWNER'S MANUAL



GWH09UC-D3DNA4A
GWH12UC-D3DNA4A
GWH18UC-D3DNA4A

Thank you for choosing our Air Conditioner. Please read this owner's manual carefully before operating the unit and keep it for future reference.

Matching instructions



This model uses a RF remote control. The remote control has to be matched with the air conditioner before operation, otherwise the remote control will not work.

Before operation, please read the following instructions carefully and proceed accordingly.

- ▶ Please do the following operation within 2m from the unit. Matching is not needed anymore once it is done.
- ▶ During matching, please keep the remote control and air conditioner under standby status.
- ▶ When the signal of the remote control can't be received, please repeat the matching operation.

Matching of the remote control

When the unit is under standby status, please get close to the air conditioner within 2m and then hold on pressing **HUMIDIFY/HEALTH** button for 3s. The remote control and air conditioner will enter matching automatically. If matching is done, the unit will give beep 3 times; if matching has failed, please get closer to the unit and repeat matching operation.

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Installation

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This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.



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



DANGER

Indicates a hazardous situation that, if not avoided, will result in death or serious injury.



WARNING

Indicates a hazardous situation that, if not avoided, could result in death or serious injury.



CAUTION

Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

NOTICE

Indicates important but not hazard-related information, used to indicate risk of property damage.



Indicates a hazard and it is assigned to the signal words DANGER, WARNING or CAUTION.

Precautions



WARNING

Operation and Maintenance

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children.
- Do not connect air conditioner to multi-purpose socket. Otherwise, it may cause fire hazard.
- Do disconnect power supply when cleaning air conditioner. Otherwise, it may cause electric shock.
- If the power supply wire is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Do not wash the air conditioner with water to avoid electric shock.
- Do not spray water on indoor unit. It may cause electric shock or malfunction.
- After removing the filter, do not touch fins to avoid injury.
- Do not use fire or hair dryer to dry the filter to avoid deformation or fire hazard.

Precautions



WARNING

Operation and Maintenance

- Maintenance must be performed by qualified professionals. Otherwise, it may cause personal injury or damage.
- Do not repair air conditioner by yourself. It may cause electric shock or damage. Please contact dealer when you need to repair air conditioner.
- Do not extend fingers or objects into air inlet or air outlet. It may cause personal injury or damage.
- Do not block air outlet or air inlet. It may cause malfunction.
- Do not spill water on the remote control, otherwise the remote control may no longer operate.
- When below phenomenon occurs, please turn off air conditioner and disconnect power immediately, and then contact the dealer or qualified professionals for service.
 - There's abnormal sound during operation.
 - Circuit break trips off frequently.
 - Air conditioner gives off burning smell.
 - Indoor unit is leaking.
- If the air conditioner operates under abnormal conditions, it may cause malfunction, electric shock or fire hazard.
- When turning on or turning off the unit by emergency operation switch, please press this switch with an insulating object other than metal.
- Do not step on top panel of outdoor unit, or put heavy objects. It may cause damage or personal injury.

Precautions



WARNING

Attachment

- Installation must be performed by qualified professionals. Otherwise, it may cause personal injury or damage.
- Must follow the electric safety regulations when installing the unit.
- According to the local safety regulations, use qualified power supply circuit and circuit break.
- An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
- Air Conditioner should be properly grounded. Incorrect grounding may cause electric shock.
- Make sure the power supply matches with the requirement of air conditioner. Unstable power supply or incorrect wiring may cause malfunction of the unit, electric shock or fire hazard.
- Properly connect the live wire, neutral wire and grounding wire.
- Be sure to cut off the power supply before proceeding any work related to electricity and safety.

Precautions**WARNING**

- Do not put through the power before finishing installation.
- If the power supply wire is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
- The appliance shall be installed in accordance with national wiring regulations.
- Installation must be performed in accordance with the requirement of NEC and CEC by authorized personnel only.
- The air conditioner is a first class electric appliance. It must be properly grounded with specialized grounding device by a professional. Please make sure it is always grounded effectively, otherwise it may cause electric shock.
- The yellow-green wire in the the air conditioner is grounding wire, which can't be used for other purposes.
- The grounding resistance should comply with national electric safety regulations.
- All wires of indoor unit and outdoor unit should be connected by a professional.
- If the length of power connection wire is insufficient, please contact the supplier for a new one. Do not extend the wire yourself.

Precautions



WARNING

- If you need to relocate the air conditioner to another place, only a qualified person can perform the work. Otherwise, it may cause personal injury or damage.
- Select a location which is out of reach for children and far away from animals or plants. If it is unavoidable, please add a fence around the outdoor unit for safety purpose.
- The indoor unit should be installed close to the wall.
- Instructions for installation and use of this product are provided by the manufacturer.

Precautions**FCC STATEMENT**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions :

- (1) this device may not cause harmful interference;
- (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment on a circuit different from the one to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Precautions



IC STATEMENT

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with FCC's and IC's RF radiation exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must be installed and operated to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter. Installers must ensure that 20cm separation distance will be maintained between the device (excluding its handset) and users.

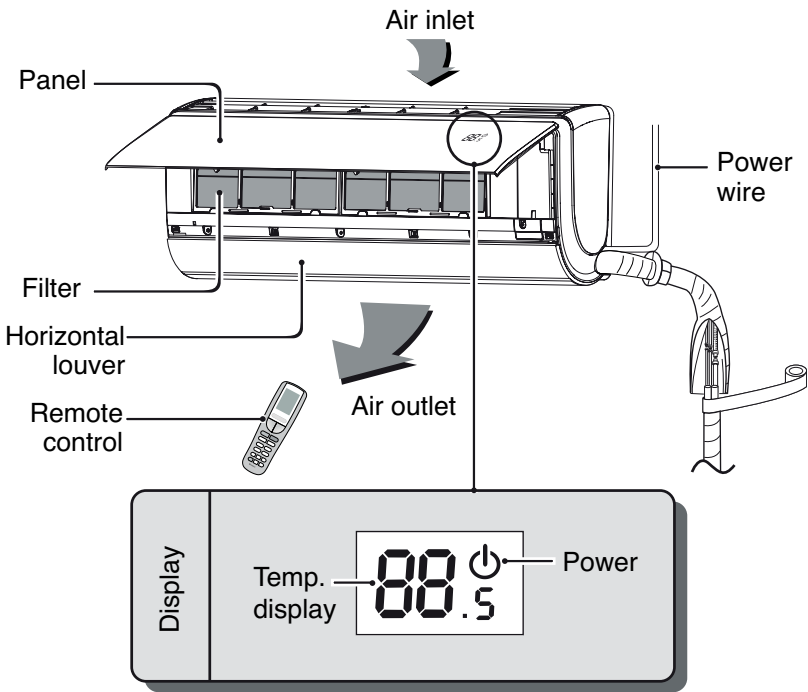
Working temperature range

	Indoor side DB/WB(°C)	Outdoor side DB/WB(°C)
Maximum cooling	26.7/19.4	46.1/23.9
Maximum cooling	26.7/-	23.9/18.3

NOTICE :

- The operating temperature range (outdoor temperature) for cooling only unit is -18 (°C) ~54 (°C) ; for heat pump unit is -30 (°C) ~ 54 (°C)

Parts name

**NOTICE :**

Actual product may be different from above graphics, please refer to actual products.

Buttons on Remote Control



- 1 ON/OFF button
- 2 +/- button
- 3 Cool button
- 4 Heat button
- 5 Fan button
- 6 I FEEL button
- 7 Up down swing button
- 8 Mode button
- 9 Left right swing button
- 10 T-ON/T-OFF button
- 11 Clock button
- 12 Humidity button/Health button
- 13 Air button
- 14 X-fan button
- 15 Light button
- 16 Sleep button
- 17 WIFI button

Buttons on Remote Control

Operation mode

- Auto mode
- Cool mode
- Dry mode
- Fan mode
- Heat mode

Set time

Turbo fan speed

X-FAN function

Auto quiet mode

Quiet mode

Temp. display type

Set fan speed

Send signal

Battery power

Humidity functions

Temp. display type

Healthy mode

Set temperature

Up & down swing

Left & right swing

8°C heating function

Child lock


I feel function

Replacing air

Sleep mode

🏠 : Set time 🏠 : Indoor ambient temp.
 🏠 : Outdoor ambient temp.

Introduction for buttons on remote control

- After putting through the power, the air conditioner will beep. The operation indicator "⏻" is ON (red indicator). After that, you can operate the air conditioner by using the remote control.
- Under ON status, pressing the button on the remote control, the signal icon  on the remote control display will blink once and the air conditioner will beep, which means the signal has been sent to the air conditioner.

1 ON/OFF BUTTON

Pressing this button can turn on or turn off the air conditioner. After turning on the air conditioner, operation 'green' indicator "⏻" on indoor unit's display is ON and the indoor unit will beep (the indicator colour may vary with models).

2 +/- BUTTON

- Pressing "+" or "-" button once increase or decrease set temperature by 0.5°C. Holding "+" or "-" button, the set temperature on remote control will change quickly. On releasing the button after setting is finished, temperature indicator on indoor unit will change accordingly. (temperature can't be adjusted under auto mode).
- When setting TIMER, press "+" or "-" button to adjust time.








3 COOL BUTTON

- Press this button, unit will operate in cool mode.

4 HEAT BUTTON

- Press this button, unit will operate in heat mode.

5 FAN BUTTON

Pressing this button sets fan speed circularly as: low() , low medium() , medium () , medium high() , high() , super() , auto(AUTO), quiet() .





Note:




- Turbo function is not available under dry and auto mode.
- Automatically operates at low speed when starting sleep function.
- The unit operates at low speed under dry and auto dry mode. The speed can't be adjusted.
- Under AUTO speed, air conditioner will select proper fan speed automatically according to ambient temperature.

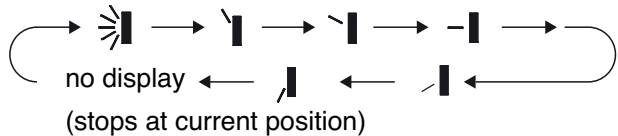
Introduction for buttons on remote control

6 I FEEL BUTTON

- Press this button to start I FEEL function and "." will be displayed on the remote control. After this function is set, the remote control will send the detected ambient temperature to the controller and the unit will automatically adjust the indoor temperature according to the detected temperature. Press this button again to close I FEEL function and "." will disappear.
- Put the remote control near user when this function is set. Do not put the remote control near an object of high temperature or low temperature in order to avoid detecting inaccurate ambient temperature.

7 BUTTON

- Under simple swing mode, pressing this button will turn on (display ) left & right swing function.
- Under OFF status, pressing "+" button and  button simultaneously can switch between simple swing mode and fixed swing mode. During switching time,  icon on remote control will flash twice.
- Under fixed-angle swing mode, press this button and left and right swing status will change in the sequence as below:



8 MODE BUTTON

Press this button to select your required operation mode.



Introduction for buttons on remote control

- When selecting auto mode, air conditioner will operate automatically according to ambient temperature. Set temperature can't be adjusted and will not be displayed as well. Press "FAN" button can adjust fan speed. Press "☀️" / "🌀" button can adjust fan blowing angle.
- After selecting cool mode, air conditioner will operate under cool mode. Press "+" or "-" button to adjust set temperature. Press "FAN" button to adjust fan speed. Press "☀️" / "🌀" button to adjust fan blowing angle.
- When selecting dry mode, the air conditioner operates at low speed under dry mode. Under dry mode, fan speed can't be adjusted. Press "☀️" / "🌀" button to adjust fan blowing angle.
- When selecting fan mode, the air conditioner will only blow fan, Press "FAN" button to adjust fan speed. Press "☀️" / "🌀" button to adjust fan blowing angle.
- When selecting heating mode, the air conditioner operates under heat mode. Press "+" or "-" button to adjust set temperature. Press "FAN" button to adjust fan speed. Press "☀️" / "🌀" button to adjust fan blowing angle. (Cooling only unit won't receive heating mode signal. If setting heat mode with remote control, pressing ON/OFF button can't start up the unit).

Note:

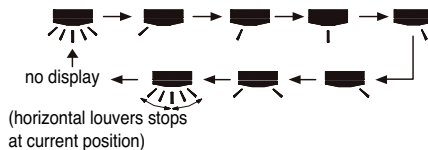
- For preventing cold air, after starting up heating mode, indoor unit will delay 1-5 minutes to blow air (actual delay time depends on indoor ambient temperature).
- Set temperature range from remote control: 16-30°C (61-86°F);

9

BUTTON



- Under simple swing mode, pressing this button can turn on (display "☀️" icon) or turn off (not display "☀️" icon) up&down swing function.
- Under OFF status, pressing "+" button and "☀️" button simultaneously can switch between simple swing mode and fixed swing mode. During switching time, "☀️" icon on remote control will flash twice.
- Under fixed swing mode, press this button and up and down swing status will change in the sequence as below:



Introduction for buttons on remote control

10 T-ON/T-OFF BUTTON

• T-ON button

"T-ON" button can set the time for unit to start. After pressing this button, "⌚" icon disappears and the word "ON" on remote control blinks. Press "+" or "-" button to adjust T-ON setting. After each pressing "+" or "-" button, T-ON setting will increase or decrease 1 min. Hold "+" or "-" button, 2s later, the time will change quickly until reaching your required time. Press "T-ON" to confirm it. The word "ON" will stop blinking. "⌚" icon resumes displaying. To cancel TIMER ON: under the condition that T-ON is started up, press "T-ON" button to cancel it.

• T -OFF button

"T-OFF" button can set the time for unit to stop. After pressing this button, "⌚" icon disappears and the word "OFF" on remote control blinks. Press "+" or "-" button to adjust T-OFF setting. After each pressing "+" or "-" button, T-OFF setting will increase or decrease 1 min. Hold "+" or "-" button, 2s later, the time will change until reaching your required time. Press "T-OFF" to confirm it. The word "OFF" will stop blinking. "⌚" icon resumes displaying. To cancel T-OFF: under the condition that T-OFF is started up, press "T-OFF" button to cancel it.

Note:

- Under on and off status, you can set T-OFF or T-ON simultaneously.
- Before setting T-ON or T -OFF, please adjust the clock time.
- After starting up T-ON or T-OFF, set air circulation. After that, air conditioner will be turned on or turned off according to setting time. ON/OFF button has no effect on setting. If you don't need this function, please use remote control to cancel it.

11 CLOCK BUTTON

Press this button to set clock time. "⌚" icon on remote control will blink. Press "+" or "-" button within 5s to set clock time. Each pressing of "+" or "-" button, clock time will increase or decrease by 1 minute. Hold "+" or "-" button, 2s later, time will change quickly. Release this button when reaching your required time. Press "CLOCK" button to confirm the time. "⌚" icon stops blinking.

Note:

- Clock time adopts 24-hour mode.
- The interval between two operations can't exceeds 5s. Otherwise, remote control will quit setting status. Operation for TIMER ON/TIMER OFF is the same.

Introduction for buttons on remote control

12 HUMDITY/HEALTH BUTTON 

Press this button to select your required operation mode.



Note: this function is not operational on this unit; if you press this button, the main unit will click on, but it will run under its original status.

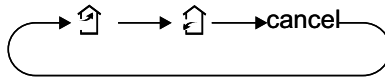
13 X-FAN BUTTON 

Pressing this button in COOL or DRY mode, the icon "X-FAN" is displayed and the indoor fan will continue operation for 2 minutes in order to dry the indoor unit even though you have turned off the unit. After energization, X-FAN OFF is defaulted. X-FAN is not available in AUTO, FAN or HEAT mode. This function indicates that moisture on evaporator of indoor unit will be blown after the unit is stopped to avoid mould.


- Having set X-FAN function on: after turning off the unit by pressing ON/OFF button, indoor fan will continue running for about 2 min. at low speed. During this period, press X-FAN button to stop indoor fan directly.
- Having set X-FAN function off: after turning off the unit by pressing ON/OFF button, the complete unit will be off directly.

14 AIR BUTTON 


Press this button to select your required operation mode.



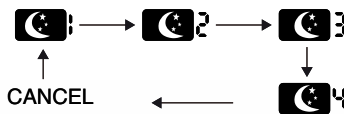
Note: this function is not operational on this unit; if you press this button, the main unit will click on, but it will run under its original status.

15 LIGHT BUTTON 

Press this button to turn off display light on indoor unit. Press this button again to turn on display light.

16 SLEEP BUTTON 

- Pressing this button can select Sleep 1, Sleep 2, Sleep 3, Sleep 4 or cancel Sleep circularly as below:



Introduction for buttons on remote control

- In Sleep 1 and Sleep 2, the air conditioner will run according to a group of presetting temperature curves.
- Sleep 3 - the sleep curve setting under DIY Sleep mode (personalized):
 - (1) Under Sleep 3 mode, long press "AIR" button, the remote control will enter the setting of personalized sleep. In this case, the timer zone of remote control will display "1 hr" and the set temperature zone "88" will display the corresponding temperature of the last set sleep curve and blink (the first entering will display according to the initial curve setting value of manufacturer).
 - (2) Press "+" and "-" button to adjust the corresponding temperature. After adjusting, press "AIR" button to confirm it.
 - (3) At this time, the timer time on the remote control will increase automatically by 1 hr (that is "2 hr" or "3 hr" ... or "8 hr"). The set temperature zone "88" will display the corresponding temperature of the last set sleep curve and blink.
 - (4) Repeat step(2) and step (3) until 8-hour temperature setting is finished, then the sleep curve is set successfully. After that, remote control will resume displaying the original timer time and temperature zone will resume displaying the original set temperature.
- Sleep 3- the sleep curve inquiry under DIY Sleep mode:

User can inquire the set sleep curve according to the setting method of sleep curve. Enter the setting of personalized sleep but do not change the temperature. Then press "AIR" button to confirm the setting.

Note: In the above setting or inquiry procedure, if there is no button pressing within 10s, remote control will automatically exit the sleep curve setting and resume the original display and setting.
- Sleep 4 is Siesta mode. The set temperature will change automatically according to the features of siesta.
- Sleep function will be disabled if the air condition is restarted after power failure; when sleep function is turned on, quiet fan speed will be also turned on.
- Sleep function can not be set in AUTO mode.

17 WIFI BUTTON




- Pressing this button 3s will set WIFI function ON or OFF.
- At OFF status, pressing mode button and WIFI button will reset WIFI mode parameter and open WIFI function.

Combination buttons

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 temperature. automatically to select the suitable running method to assure a comfortable ambient temperature.

ABOUT LOCK

Press+ and- buttons simultaneously to lock or unlock the keyboard. If the remote control is locked, the icon  will be displayed. Press any button, the icon will flick three times. If the keyboard is unlocked, the icon will disappear.

SWITCHING BETWEEN FAHRENHEIT AND CENTIGRADE

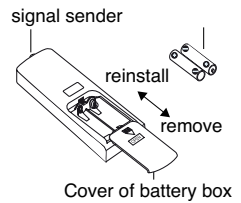
Under OFF status, press MODE and - buttons simultaneously to switch °C and °F .

Operation guide

1. After putting through the power, press "ON/OFF" button on remote control to turn on the air conditioner.
2. Press "MODE" button to select your required mode: AUTO, COOL, DRY, FAN, HEAT.
3. Press"+" or"- "button to set your required temperature. (Temperature can't be adjusted under auto mode).
4. Press "FAN" button to set your required fan speed: auto, low, medium and high speed.
5. Press "SWING" button to select fan blowing angle.

Replacement of batteries in remote control:

1. Press the back side of remote control marked with "🔌", as shown in the fig; and then push out the cover of battery box along the arrow direction.
2. Replace the two batteries (AAA - 1.5V); make sure that the batteries are inserted correctly with the polars '+' and '-' in the right position.
3. Reinstall the cover of battery box.



Battery level will be displayed on the remote controller. When "🔋" is flickering, please replace the batteries, otherwise, remote controller can't operate normally.



- During operation, point the remote control signal sender at the receiving window on the indoor unit.
- The distance between signal sender and receiving window should be no more than 8m, and there should be no obstacles between them.
- Signal may be interfered easily in the room where there is fluorescent lamp or wireless telephone; remote control should be close to the indoor unit during operation.
- When replacing the batteries, make sure you use two identical batteries (same brand).
- When you don't use the remote control for a long time, please take out the batteries.
- If the display on the remote control is fuzzy or there's no display, please replace the batteries.

Operation of Smart Control (Smart Phone, Tablet PC)

How to operate AC or auxiliary device with smart phone or tablet PC after matching:

First of all: before using smart connection function , please make sure your smart phone or tablet computer uses the standard Android or iOS operating system.

Please refer to the application program for the specific version. This air conditioner can connect 4 smart phones or tablet computers maximum, and it can operate only on short distance.

1. Install G-Life on your smart phone/ tablet PC

Method 1: Enter Gree official website to download

http://www.gree.com/english/downloadcenter/ihome.jsp_catid_2840.shtml

Method 2: Scan the QR code and download the application directly (if your device is not compatible, please download the application in other ways.)



Method 3: Users of iOS system can search the application "G-Life" through Apple's App Store. After it is successfully installed, you will see the picture below. Following is the example using iphone4s. (The interface of the application may vary as it is upgraded or used in different operating systems. Please refer to actual application.)

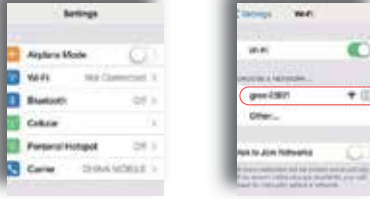


Operation of Smart Control (Smart Phone, Tablet PC)

2. Turn on the AC WiFi:

Turn the air conditioner on. First, make sure the remote control is matched. Then, press on the "WiFi" button on the remote control for at least 3 seconds. If WiFi icon shows, it means the WiFi function is turned on.

3. Enter the WiFi setting of your phone and search for the wireless network named gree-xxxxxxx. Take gree-E9D1 as an example. Connect the network.



4. Input the original password 12345 to connect the network.



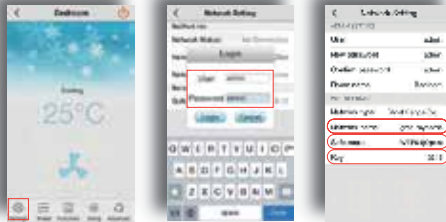
5. Open the application software and click "Refresh"; then the system will link with the air conditioner automatically. Click "⏻" to turn on the control function; then click any position on the interface and the software will switch to the remote control interface.



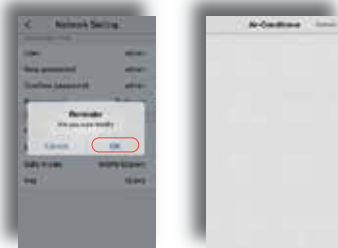
Operation of Smart Control (Smart Phone Tablet PC)

Attention: please change the name and key of the network during the first setting!

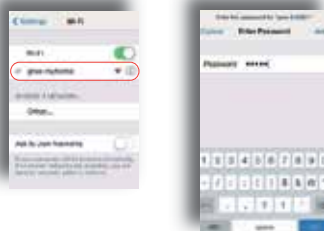
- Left-slide the bottom function bar to "Settings" and click it to enter into internet setting interface. Click "Network Setting", and input user name and password (the defaulted user name and password is admin) in the "Login" dialog box to enter into "Network Setting" to modify network name (e.g. gree-my home) and password (refer to the attachment: safe mode and password instruction).



- After modifying name and password, click it to return and there will be a prompt box, and then clock "OK" to finish the modification. Meanwhile, the software will turn back to interface of "Air-Conditioner" and the AC list will be gone.



- Exit the application and enter your phone's WiFi Setting. Then you will see the network you just named "gree-my home". Click it and input the password set in step 6 to join the network.



Operation of Smart Control (Smart Phone, Tablet PC)

9. Enter into the software interface again. Meanwhile, the short-distance remote control setting for your air conditioner is finished.



How to reset the air conditioner WiFi module:

Turn unit off with the remote control and disconnect the power of the air conditioner. Then re-connect the power. 1 minute later, press "WiFi" and "Mode" buttons simultaneously. If the air conditioner beeps, it means the WiFi module is successfully reset.

Attention: operation of the buttons is only effective in 2 minutes.

Analysis of common network setting failure:

if short-distance control fails, please check the following items one by one!

- Make sure the air conditioner is power connected;
- Make sure the air conditioner's WiFi function is turned on as normal;
- Make sure your phone's WiFi selects the corresponding air conditioner;
- Reset with the remote control and then start setting again from step 3.

Kindly remind:

1. The air conditioner WiFi function needs about 1 minute to start up.
2. The air conditioner has memory function.
3. Those models have no long-distance control.

Operation of Smart Control (Smart Phone Tablet PC)

Function Introduction on Main Interface

1. **Mode:** It is used for setting operation mode for air conditioner. You can select "Auto", "Cooling", "Drying", "Fan" or "Heating" according to your requirement. Please refer to the part of remote control for the detailed operation.



2. **Temperature:** It is used for setting temperature. Set the indoor temperature according to your requirement.



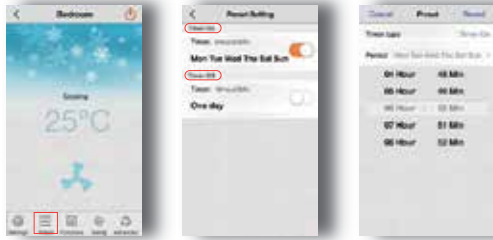
3. **Fan Speed:** It is used for setting fan speed. Under cooling or heating mode, if the noise-customized function is turned on, adjust the fan speed and then the noise-customized function will be turned off automatically. Please refer to the part of remote control for detailed operation.



Operation of Smart Control (Smart Phone, Tablet PC)

Key Functions Instruction of Application Software

1. Preset: with Timer On and Timer Off function, user can set Timer On and Timer Off according to requirement.



2. Functions: after entering setting interface, you can turn on or turn off Light, Purify, X-fan and Turbo functions and set Silent, Humidify, Air Exchange and other modes. Please refer to the remote control section for the function instruction. Among that, Purify, Humidify, Air exchange functions can be set through equipping with special devices. E-heater is not available on this unit.



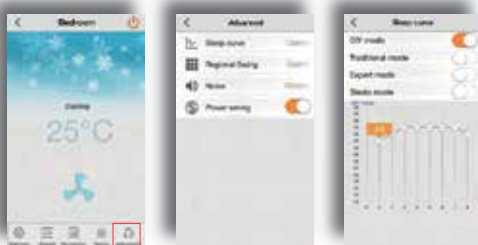
3. Swing: during vertical and horizontal swings, it's a fixed angle swing when those two sliding blocks are combined together, and full swing when they are separated. When setting up&down swing, the program will turn off regional swing function, whereas setting horizontal swing has no impact.



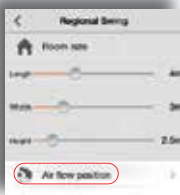
Operation of Smart Control (Smart Phone, Tablet PC)

4. ADVANCED: After entering advanced interface, you can set Sleep curve, Regional Swing, Noise and Power saving.

- Sleep curve: Sleep curve includes DIY, Traditional, Expert and Siesta modes. Under DIY mode, you can set temperature and time. Under auto mode and fan mode, sleep curve function can't be turned on. Only Traditional mode can be selected under dry mode.

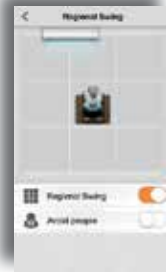


- Regional Swing: After entering Regional Swing, user can set it according to the room size. Press "Air flow position" button and the user can adjust the fan-blowing area through moving the icon of air conditioner left and right according to the actual installation position of the unit.



User can move the person icon among nine pane areas according to requirement to adjust the fan-blow area. The Regional Swing function can be turned off through up&down swing. The up&down swing in the Regional Swing is only valid under cooling and heating modes. The left&right swing area is function of the position of air conditioner set by mobile phone. The left&right swing position may be asymmetry, which is normal. "Avoid people" function can be turned on or turned off. There could be deviation because of the installation position of air conditioner and the setting of parameters- this is normal.

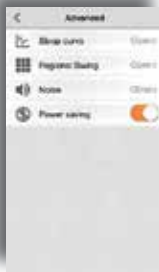
Operation of Smart Control (Smart Phone, Tablet PC)



- **Noise:** The noise-customized function for indoor unit can be adjusted. The detailed adjustment range varies with models, and is function of the indoor unit.

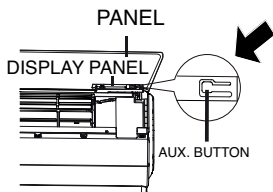


- **Power saving:** After energy saving navigation mode is turned on, the air conditioner will automatically detect indoor and outdoor temperature. The air conditioner will adjust frequency, fan speed and set temperature automatically according to the load status for saving energy.



Emergency operation

If the remote control is lost or damaged, please use auxiliary button to turn on or turn off the air conditioner. As shown in the figure, open the panel, press the auxiliary button to turn on or turn off the air conditioner. When the air conditioner is turned on, it will operate under auto mode.



⚠ WARNING
Use insulated object to
press the auto button

Clean and maintenance

⚠ WARNING

- Turn off the air conditioner and disconnect the power before cleaning the unit to avoid electric shock.
- Do not wash the air conditioner with water to avoid electric shock.
- Do not use volatile liquid to clean the air conditioner.

Clean surface of indoor unit

When the surface of indoor unit is dirty, it is recommended to use a soft dry cloth or lightly moistened with water to wipe it.

NOTICE:

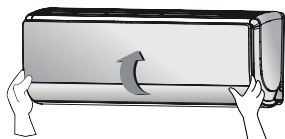
- Do not remove the panel when cleaning it.

Clean and maintenance

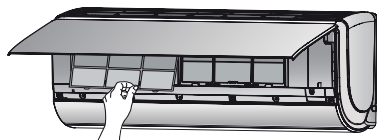
Clean filter

Very Important : before cleaning your main filter, check if there is a special filter attached to it (rectangular shape, as illustrated on the following page – p.28); take it out and clean it separately, where applicable, and as per instructions detailed on page 28. You can then proceed to the cleaning of your main filter. Before replacing your main filter in the unit, do not forget to reinsert the special filter onto the main filter.

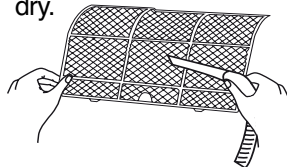
- 1 Open panel**
Open the panel into a certain angle (less than 60°, do not force the panel) along the arrow direction from the two sides of panel.



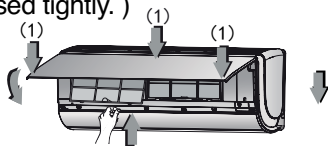
- 2 Remove filter**
Remove the filter as indicated.



- 3 Clean filter**
- Use a vacuum or water to clean the filter.
 - When the filter is very dirty, use water (below 45 °c) to clean it, and then put it in a shady and cool place to dry.



- 4 Install filter**
Install the filter and then close the panel cover tightly. (Press the arrow (1) position to make sure it is closed tightly.)



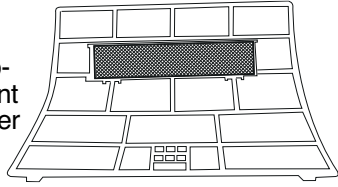
⚠ WARNING

- The filter should be cleaned every three months. If the unit operates in a highly dusty environment, clean frequency should be increased.
- After removing the filter, do not touch fins to avoid injury.
- Do not use fire or hair dryer to dry the filter to avoid deformation or fire hazard.

Some models are provided with :

(1) A Bio-Sterilization with Cold Catalyst Filter:

a new purified material with superior bio-bactericide properties; it is a high efficient bacteria sterilizer and dust collector. Filter Life Span: filter needs to be replaced every 6 to 12 months.



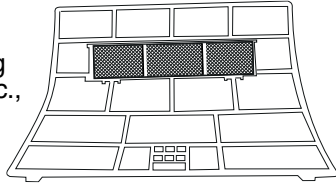
IMPORTANT: wash this filter simply by rinsing it with clear lukewarm water (**no soap, no brush**) and dry airing it (**do not wipe**, nor use an hair dryer or other heat source to dry it)

(2) A Multi-function filter (combination of Silver Ion, Catechin and Antimites properties):

this multi-function filter can

(i) sterilize 99% of bacteria by suppressing proliferation of mold, bacteria, mites, etc., inhibiting the causes of allergies and unpleasant odors;

(ii) the catechin filter, made with green tea, can eliminate up to 95% of carcinogenic exogenous (in the environment) agents, harmful for health. Filter Life Span: filter needs to be replaced when it turns black or green.



IMPORTANT: this filter is **NON WASHABLE** nor can it be cleaned; replace it when due.

Clean and maintenance

1. Check that air inlets and air outlets are not blocked.
2. Check if circuit breaker and connection, are in good condition.
3. Check that filters are clean.
4. Check that drainage pipe is not damaged.

1. Disconnect power supply.
2. Clean filters and indoor unit's panel.

Notice for recovery

1. Many packing materials are recyclable.
Please dispose of them in appropriate recycling bin.
2. If you want to get rid of the air conditioner, please contact your dealer or your local recycling service center for the correct disposal method.

Malfunction analysis

General analysis

Please check below items before asking for maintenance. If the malfunction still can't be eliminated, please contact local dealer or qualified professionals.

Problem	Check items	Solution
Indoor unit can't receive remote control signal or remote control has no power.	Whether it's interfered severely (such as static electricity, stable voltage)?	Cut the power supply off and put the power back after about 3min, and then turn on the unit again.
	Whether remote control is within the signal receiving range?	Signal receiving range is 8m.
	Whether there are obstacles?	Remove obstacles.
	Whether remote control is pointing at the receiving window?	Select proper angle and point the remote control at the receiving window on indoor unit.
	Is the remote control display fuzzy or there is no display at all ?	Check the batteries. If the battery charge level is too low, please replace them.
	No display when operating the remote control?	Check whether remote control appears to be damaged. If yes, replace it.
	Fluorescent lamp in the room?	Bring the remote control close to the indoor unit. Turn off the fluorescent lamp and then try it again.

No air flow from indoor unit	Are air inlet or air outlet of indoor unit blocked?	Eliminate obstacles.
	Under heating mode, indoor temperature reached set temperature?	After reaching set temperature, indoor unit will stop blowing out air.
	Has the heating mode been just turned on ?	In heating mode, in order to prevent blowing out cold air, indoor unit will start several minutes after the unit has been turned on, which is normal.

Malfunction analysis

Problem	Check items	Solution
Air conditioner can't operate	Power failure?	Wait until power resumes.
	Air switch trips off ?	Ask professional to replace air switch.
	Wiring has malfunction?	Ask professional to replace it.
	Has the unit been turned on immediately after being stopped ?	Wait for 3min, and then turn on the unit again.
	Is the function setting on remote control correct ?	Reset the function.

Mist is emitted from indoor unit's air outlet	Are indoor temperature and humidity level high ?	This is because indoor air is cooled rapidly. After a while, indoor temperature and humidity level will decrease and mist will disappear.
---	--	---

Set temperature can't be adjusted	Unit is operating under auto mode?	Temperature can't be adjusted under auto mode. Please switch the operation mode if you need to adjust temperature.
	Your required temperature exceeds the set temperature range?	Set temperature range: 15°C -30 °C .

Air cooling (heating) is not efficient	Voltage is too low?	Wait until the voltage resumes to normal.
	Filter is dirty?	Clean the filter.
	Set temperature is in proper range?	Adjust temperature to proper range.
	Doors and windows are open?	Close doors and windows.

Malfunction analysis

Problem	Check items	Solution
Odours are emitted	Either there is an odour source in the room, such as furniture or cigarette, or the filter is dirty.	Eliminate the source of the odour. Clean the filter.
Air conditioner suddenly turns on and operates normally	There may be interference, such as thunder, wireless devices, etc.	Cut the power supply off and put the power back and then turn on the unit again.
Outdoor unit emits vapor	Heating mode is turned on?	During defrosting under heating mode, it may produce vapor, which is a normal.
Water flowing noise	Has the air conditioner just been turned on and off ?	The noise is the sound of refrigerant flowing inside the unit, which is a normal.
Craking noise	Has the air conditioner just been turned on and off ?	This is the sound of friction caused by expansion and/or contraction of panel or other parts due to the change of temperature.

Malfunction analysis

Error code

When air conditioner status is abnormal, temperature indicator on indoor unit will blink and display corresponding error code. Please refer to list below for identification of error code.

Error code	Troubleshooting
E5	It can be eliminated after restarting the unit. If not , please contact qualified professionals for service.
E6	It can be eliminated after restarting the unit. If not , please contact qualified professionals for service.
E8	It can be eliminated after restarting the unit. If not,please contact qualified professionals for service.
U8	It can be eliminated after restarting the unit. If not,please contact qualified professionals for service.
H6	It can be eliminated after restarting the unit. If not,please contact qualified professionals for service.
C5	Please contact qualified professionals for service.
F1	Please contact qualified professionals for service.
F2	Please contact qualified professionals for service.

Note: If there're other error codes, please contact qualified professionals for service.

⚠ WARNING

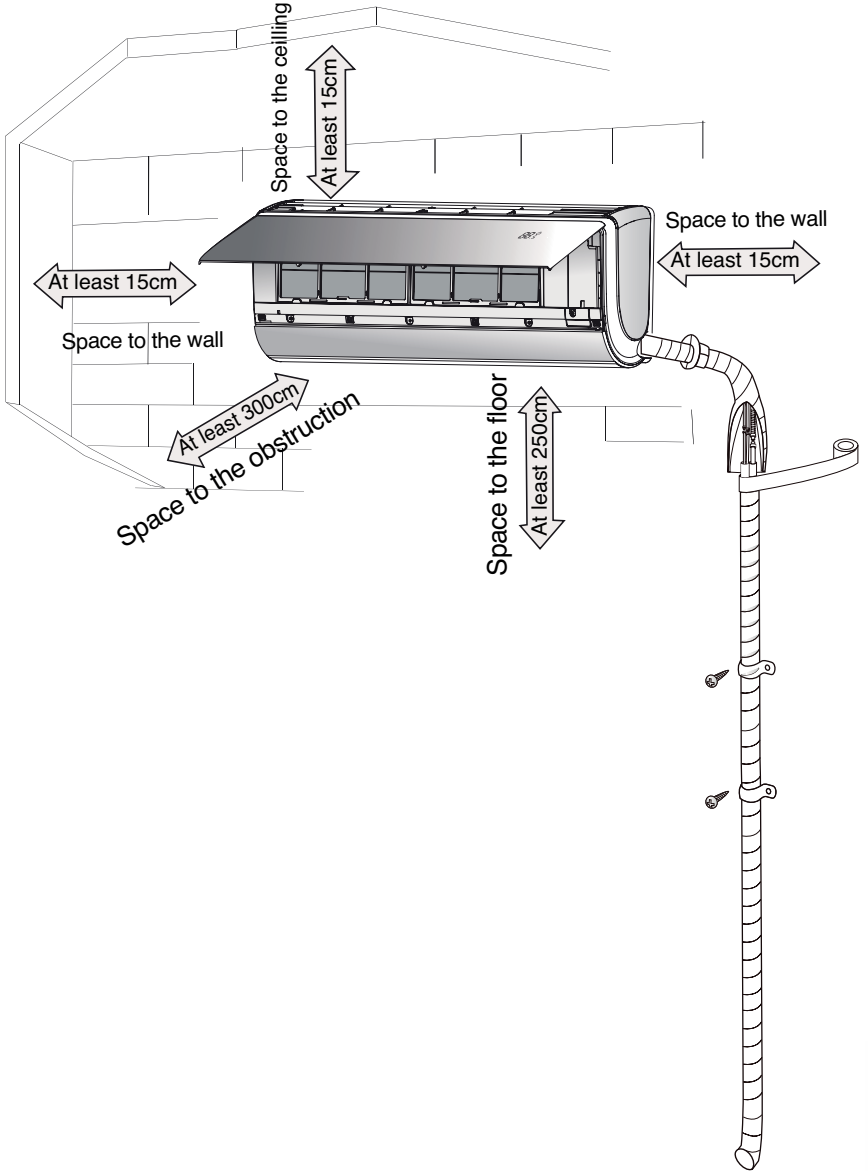
When situations below happen, please turn off the air conditioner and disconnect power immediately, then contact the dealer or qualified professionals for service:

- There is an unusual sound during operation.
- Air switch trips off frequently.
- Air conditioner generates a burning smell.
- Indoor unit is leaking.

ATTENTION:

- Do not repair or refit the air conditioner by yourself.
- If the air conditioner operates under abnormal conditions, it may damage the unit, or cause electric shock or fire hazard.

Installation dimension diagram



Tools for installation

1 Level meter	2 Screw driver	3 Impact drill
4 Drill head	5 Pipe expander	6 Torque wrench
7 Open-end wrench	8 Pipe cutter	9 Leakage detector
10 Vacuum pump	11 Manometer	12 Universal meter
13 Inner hexagon spanner	14 Measuring tape	

Note:

- Contact your local agent or a certified technician for installation.

Selection of installation location
Basic requirement

Installing the unit in the following places may cause malfunction. If it is unavoidable, please consult your local dealer or a certified technician:

1. A place with strong heat sources, vapors, flammable or explosive gas, or volatile objects spread in the air.
2. A place with high-frequency devices (such as welding machine, medical equipment).
3. A place near coast area.
4. A place with oil or fumes in the air.
5. A place with sulphurous gas.
6. Other places with special environment.
7. The appliance cannot be installed in a laundry.

Indoor unit

1. There should be no obstruction near air inlet and air outlet.
2. Select a location where the condensation water can be dispersed easily and won't affect people.
3. Select a location which is convenient to connect the outdoor unit and the closest possible to the power supply.
4. Select a location which is out of reach for children.
5. The location should be able to withstand the weight of indoor unit and won't increase noise and vibration.
6. The appliance must be installed 2.5m above floor.
7. Don't install the indoor unit right above an electric appliance.
8. Please try your best to keep the unit away from fluorescent lamps.

Requirements for electric connection

Safety precaution

1. Must follow the electric safety regulations when installing the unit.
2. According to the local safety regulations, use qualified power supply circuit and air switch.
3. Make sure the power supply matches with the requirement of air conditioner. Unstable power supply or incorrect wiring may cause mal function and damage the unit.
4. Properly connect the live wire, neutral wire and grounding wire
5. To work safely, be sure to cut off the power supply before proceeding any work related to electricity.
6. Do not put through the power before finishing installation.
7. The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
8. The appliance shall be installed in accordance with national wiring regulations.

Grounding requirement

1. The air conditioner is a first class electric appliance. It must be properly grounded with specialized grounding device by a professional. Please make sure it is always grounded effectively, otherwise it may cause electric shock.
2. The yellow-green wire in air conditioner is the grounding wire, which can't be used for other purposes.
3. The grounding resistance should comply with national electric safety regulations.
4. An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.

Installation of indoor unit

Step One: choosing installation location

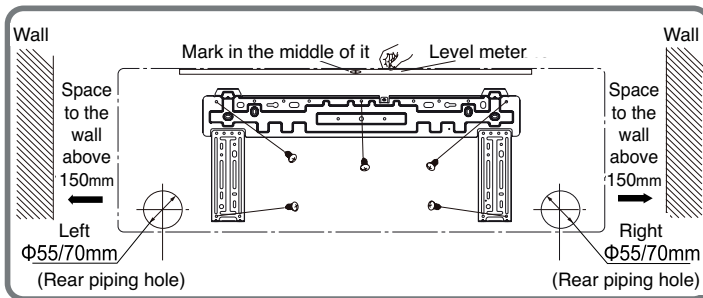
Recommend the installation location to the client and then confirm it with the client.

Step Two: install wall-mounting frame

1. Hang the wall-mounting frame on the wall; adjust it in horizontal position with the level meter and then point out the screw fixing holes on the wall.
2. Drill the screw fixing holes on the wall with the impact drill (the specification of drill head should be the same as the plastic expansion particle) and then fill the plastic expansion particles in the holes.
3. Fix the wall-mounting frame on the wall with tapping screws (ST4.2X25TA) and then check if the frame is firmly installed by pulling the frame. If the plastic expansion particle is loose, please drill another fixing hole nearby.

Step Three: open piping hole

1. Choose the position of piping hole according to the direction of outlet pipe. The position of piping hole should be a little lower than the wall-mounted frame, shown as below.

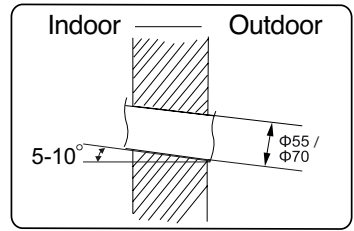


2. Open a piping hole with the diameter of $\Phi 55$ or $\Phi 70$ on the selected outlet pipe position. In order to drain smoothly, slant the piping hole on the wall slightly downward to the outdoor side with the gradient of $5\text{-}10^\circ$.

Installation of the indoor unit

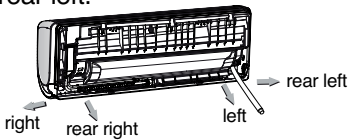
Note:

- Pay attention to dust prevention and take relevant safety measures when opening the hole.
- The plastic expansion particles are not provided and should be bought locally.

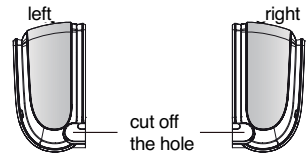


Step Four: outlet pipe

1. The pipe can be led out in the direction of right, rear right, left or rear left.

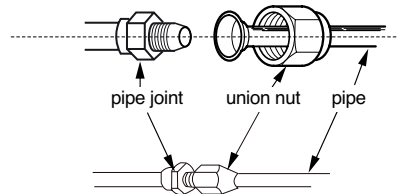


2. When select leading out the pipe from left or right, please cut off the corresponding hole on the bottom case.



Step Five: connect the pipe of indoor unit

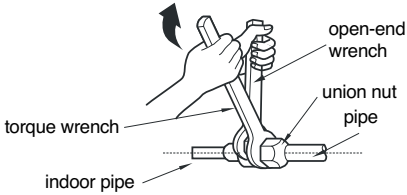
1. Aim the pipe joint at the corresponding bell mouth.



2. Pretighten the union nut with hand.

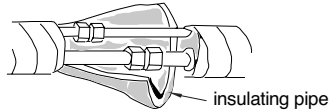
3. Adjust the torque force by referring to the following sheet. Place the open-end wrench on the pipe joint and place the torque wrench on the union nut. Tighten the union nut with torque wrench.

Installation of indoor unit



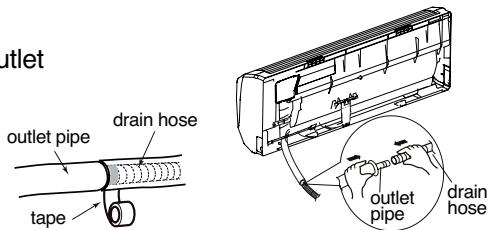
Hex nut diameter	Tightening torque (N-m)
Φ 6	15~20
Φ 9.52	30~40
Φ 12	45~55
Φ 16	60~65
Φ 19	70~75

4. Wrap the indoor pipe and joint of connection pipe with insulating pipe, and then wrap it with tape.



Step Six: install drain hose

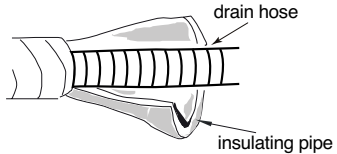
1. Connect the drain hose to the outlet pipe of indoor unit.



2. Bind the joint with tape.

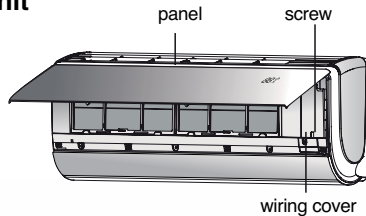
Note:

- Add insulating pipe in the indoor drain hose in order to prevent condensation.
- The plastic expansion particles are not provided.



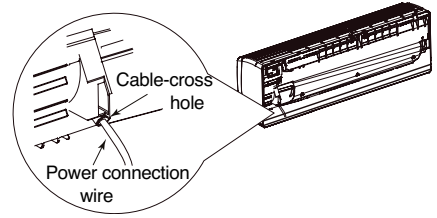
Step Seven: connect wire of indoor unit

1. Open the panel, remove the screw on the wiring cover and then take down the cover.

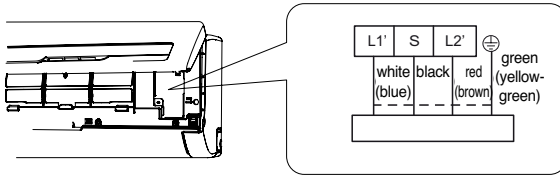


Installation of indoor unit

2. Make the power connection wire go through the cable-cross hole at the back of indoor unit and then pull it out from the front side.



3. Remove the wire clip; connect the power connection wire to the wiring terminal according to the color; tighten the screw and then fix the power connection wire with wire clip. After finishing wiring, clamp the grounding wire (yellow-green wire) into the wire-crossing groove as shown in the following figure, in order to avoid pressing the wire when closing the electric box cover.



4. Put wiring cover back and then tighten the screw
5. Close the panel.

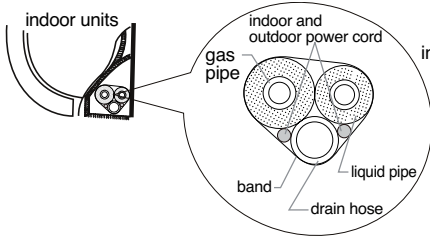
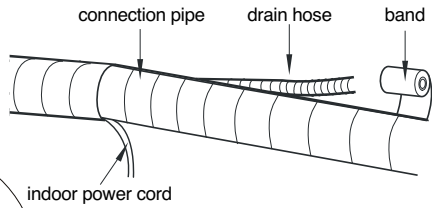
Note:

- All wires of indoor unit and outdoor unit should be connected by a professional.
- If the length of power connection wire is insufficient, please contact the supplier for a new one. Avoid extending the wire by yourself.
- An air switch must be installed in the line. The air switch should be all-pole parting and the contact parting distance should be more than 3mm.

Installation of indoor unit

Step Eight: bind up pipe

1. Bind up the connection pipe, power cord and drain hose with the band.



3. Bind them evenly.
4. The liquid pipe and gas pipe should be bound separately at the end.

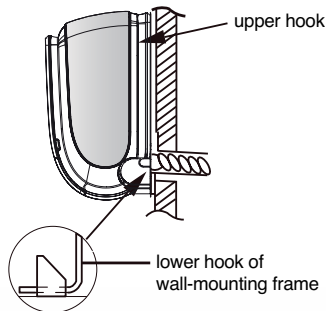
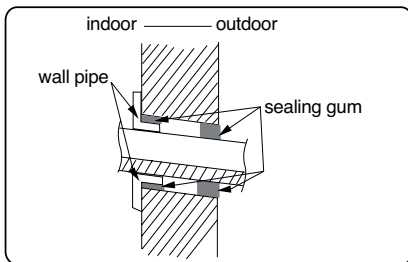
2. Reserve a certain length of drain hose and power cord for installation when binding them. When binding to a certain degree, separate the indoor power and then separate the drain hose.

Note:

- The power cord and control wire can't be crossed or winded.
- The drain hose should be bound at the bottom.

Step Nine: hang the indoor unit

1. Put the bound pipes in the wall pipe and then make them pass through the wall hole.
2. Hang the indoor unit on the wall-mounting frame.
3. Stuff the gap between pipes and wall hole with sealing gum.
4. Fix the wall pipe.
5. Check if the indoor unit is installed firmly and close to the wall.



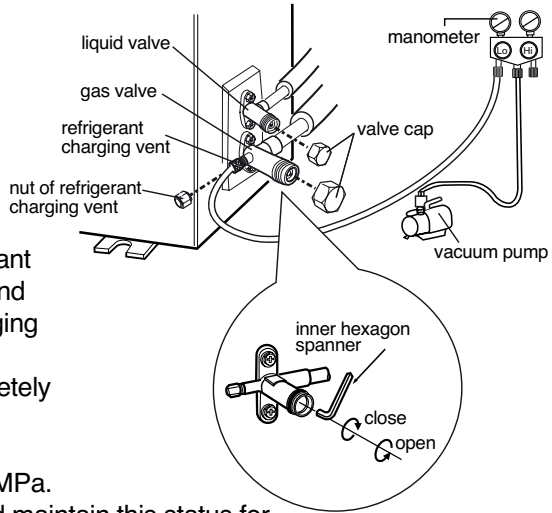
Note:

- Do not bend the drain hose too excessively in order to prevent blocking.

Vacuum pumping

Use vacuum pump

1. Remove the valve caps on the liquid valve and gas valve and the nut of refrigerant charging vent.
2. Connect the charging hose of manometer to the refrigerant charging vent of gas valve and then connect the other charging hose to the vacuum pump.
3. Open the manometer completely and operate for 10-15min to check if the pressure of manometer remains in -0.1 MPa.
4. Close the vacuum pump and maintain this status for 1-2min to check if the pressure of manometer remains in -0.1 MPa. If the pressure decreases, there may be leakage.
5. Remove the manometer, open the valve core of liquid valve and gas valve completely with inner hexagon spanner.
6. Tighten the screw caps of valves and refrigerant charging vent.
7. Reinstall the handle.



Leakage detection

1. With leakage detector; check if there is leakage.
2. If leakage detector is not available, please use soap water for leakage detection. Apply soap water at the suspected position and keep the soap water for more than 3min. If there are air bubbles coming, there's a leakage.

Check after installation

- Check the following after finishing installation.

Items to be checked	Possible malfunction
Is the unit securely fixed ?	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 of pipeline sufficient?	It may cause condensation and water dripping.
Is water drained well?	It may cause condensation and water dripping.
Is the voltage of power supply according to the voltage marked on the nameplate?	It may cause malfunction or damage the parts.
Is electric wiring and pipeline installed correctly?	It may cause malfunction or damage the parts.
Is the unit grounded securely?	It may cause electric leakage.
Is there any obstruction in the air inlet and outlet?	It may cause insufficient cooling (heating) capacity.
The dust and sundries caused during installation have been removed?	It may cause malfunction or damage the parts.
The gas valve and liquid valve of connection pipe are open completely?	It may cause insufficient cooling (heating) capacity.

Operation test

1. Before test operation

- The client approves the air conditioner.
- Specify the important notes on air conditioner to the client.

2. Method of test operation

- Put through the power, press ON/OFF button on the remote control to start operation.
- Press MODE button to select AUTO, COOL, DRY, FAN and HEAT to check whether the operation is normal or not.
- If the ambient temperature is lower than 16°C , the air conditioner can't start cooling.

Check after installation

1. Standard length of connection pipe
 - 5m, 7.5m, 8m.
2. Min. length of connection pipe is 3m.
3. Max. length of connection pipe and max. rise difference.

Cooling capacity	Max length of connection pipe	Max rise difference
9000Btu/h (2637W)	20	10
12000Btu/h (3516W)	20	10
18000Btu/h (5274W)	25	10

Cooling capacity	Max length of connection pipe	Max rise difference
24000Btu/h (7032W)	25	10
28000Btu/h (8204W)	30	10
36000Btu/h (10548W)	30	20
42000Btu/h (12306W)	30	20
48000Btu/h (14064W)	30	20

Configuration of connection pipe

Additional refrigerant charging amount for R410A

Diameter of connection pipe		Outdoor unit throttle	
Liquid pipe (mm)	Gas pipe (mm)	Cooling only(g/m)	Cooling and heating(g/m)
∅6	∅9.52 or ∅12	15	20
∅6 or ∅9.52	∅16 or ∅19	15	50
∅12	∅19 or ∅22.2	30	120
∅16	∅25.4 or ∅31.8	60	120
∅19	-	250	250
∅22.2	-	350	350

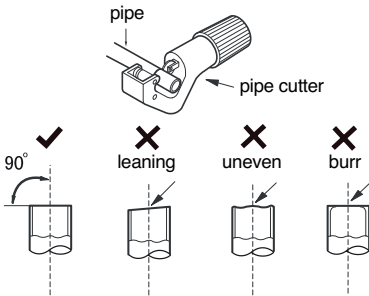
Pipe expanding method

Note:

Improper pipe expanding is the main cause of refrigerant leakage. Please expand the pipe according to the following steps:

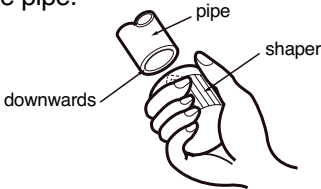
A: Cut the pipe

- Confirm the pipe length according to the distance of indoor unit and outdoor unit.
- Cut the required pipe with pipe cutter.



B: Remove the burrs

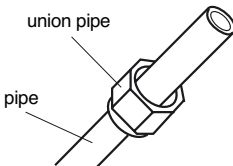
- Remove the burrs with shaper and prevent the burrs from getting into the pipe.



C: Put on suitable insulating pipe

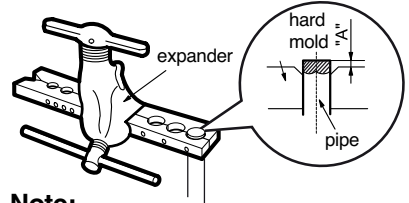
D: Put on the union nut

- Remove the union nut on the indoor connection pipe and outdoor valve; install the union nut on the pipe.



E: Expand the port

- Expand the port with expander.



Note:

- "A" varies according to the diameter, please refer to the sheet below:

Outer diameter (mm)	A (mm)	
	Max	Min
∅6-6.35(1/4")	1.3	0.7
∅9.52(3/8")	1.6	1.0
∅12-12.7(1/2")	1.8	1.0
∅15.8-16(5/8")	2.4	2.2

F: Inspection

- Check the quality of expanding port. If there is any blemish, expand the port again according to the steps above.

