



Owner's Manual

Original Instructions

Split Air Conditioner



Thank you for choosing our product.

Please read this Owner's Manual carefully before operation and retain it for future reference.

If you have lost the Owner's Manual, please contact the local agent or visit www.gree.com or send an email to global@gree.com.cn for the electronic version.

GWH09UB-K6DNA4A/I GWH12UB-K6DNA4A/I GWH18UC-K6DNA4A/I

Specialties note

Matching instructions



This model adopts RF remote control. The remote controller shall be matched with the air conditioner before operation, otherwise the remote control will be invalid.

Refore operation, please read the instructions in this page.

Before operation, please read the instructions in this page carefully and then do the corresponding matching operation.

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

Matching of remote controller

When the unit is under standby status, please get close to the air conditioner within 2m and then hold on pressing button for 3s. The remote controller and air conditioner will enter matching automatically. If matching is done, the unit will give out three sounds; if matching is failed, please get closer to the unit and arrange matching again.

Frequency band(s) in which the radio equipment operates: 2400MHz-2483.5MHz Maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates: 13dBm

Content

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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.



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

R32: 675

Explanation of Symbols



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



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



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



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



Indicates a hazard that would be assigned a signal word WARNING or CAUTION.

Exception Clauses

Manufacturer will bear no responsibilities when personal injury or property loss is caused by the following reasons.

- 1. Damage the product due to improper use or misuse of the product;
- 2.Alter, change, maintain or use the product with other equipment without abiding by the instruction manual of manufacturer;
- 3. After verification, the defect of product is directly caused by corrosive gas;
- 4. After verification, defects are due to improper operation during transportation of product;
- 5. Operate, repair, maintain the unit without abiding by instruction manual or related regulations;
- 6.After verification, the problem or dispute is caused by the quality specification or performance of parts and components that produced by other manufacturers;
- 7. The damage is caused by natural calamities, bad using environment or force majeure.

If it needs to install, move or maintain the air conditioner, please contact dealer or local service center to conduct it at first. Air conditioner must be installed, moved or maintained by appointed unit. Otherwise, it may cause serious damage or personal injury or death.

When refrigerant leaks or requires discharge during installation, maintenance, or disassembly, it should be handled by certified professionals or otherwise in compliance with local laws and regulations.



Appliance filled with flammable gas R32.



Before use the appliance, read the owner's manual first.



Before install the appliance, read the installation manual first.



Before repair the appliance, read the service manual first.

The Refrigerant

- To realize the function of the air conditioner unit, a special refrigerant circulates in the system. The used refrigerant is the fluoride R32, which is specially cleaned. The refrigerant is flammable and inodorous. Furthermore, it can leads to explosion under certain conditions. But the flammability of the refrigerant is very low. It can be ignited only by fire.
- Compared to common refrigerants, R32 is a nonpolluting refrigerant with no harm to the ozonosphere. The influence upon the greenhouse effect is also lower. R32 has got very good thermodynamic features which lead to a really high energy efficiency. The units therefore need a less filling.

WARNING:

Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacture. Should repair be necessary, contact your nearest authorized Service Centre. Any repairs carried out by unqualified personnel may be dangerous. The appliance shall be stored in a room without continuously operating ignition sources. (for example: open flames, an operating gas appliance or an operating electric heater.) Do not pierce or burn.

Appliance shall be installed, operated and stored in a room with a floor area larger than X m². (Please refer to table "a" in section of " Safety operation of flammable refrigerant " for Space X.)

Appliance filled with flammable gas R32. For repairs, strictly follow manufacturer's instructions only. Be aware that refrigerants may not contain an odour. Read specialist's manual.









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 without supervision.
- 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 supply cord 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.

! WARNING

- 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 controller, otherwise the remote controller may be broken.
- When below phenomenon occurs, please turn off air conditioner and disconnect power immediately, and then contact the dealer or qualified professionals for service.
 - Power cord is overheating or damaged.
 - 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.



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.
- Do install the circuit break. If not, it may cause malfunction.
- An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
- Including an circuit break with suitable capacity, please note the following table. Air switch should be included magnet buckle and heating buckle function, it can protect the circuit-short and overload.
- Air Conditioner should be properly grounded. Incorrect grounding may cause electric shock.
- Don't use unqualified power cord.
- Make sure the power supply matches with the requirement of air conditioner. Unstable power supply or incorrect wiring may result in electric shock, fire hazard or malfunction.
 Please install proper power supply cables before using the air conditioner.
- Properly connect the live wire, neutral wire and grounding wire of power socket.
- Be sure to cut off the power supply before proceeding any work related to electricity and safety.

Precautions



- Do not put through the power before finishing installation.
- If the supply cord 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 the first class electric appliance. It
 must be properly grounding 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 air conditioner is grounding wire, which can't be used for other purposes.
- The grounding resistance should comply with national electric safety regulations.
- The appliance must be positioned so that the plug is accessible.
- 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.

Precautions



- For the air conditioner with plug, the plug should be reachable after finishing installation.
- For the air conditioner without plug, an circuit break must be installed in the line.
- If you need to relocate the air conditioner to another place, only the 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 the fence 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.

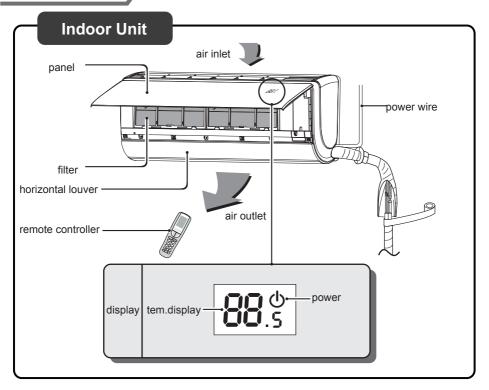
Working temperature range

	Indoor side DB/WB($^{\circ}$ C)	Outdoor side DB/WB(℃)
Maximum cooling	32/23	54/32
Maximum heating	27/-	24/18

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 .

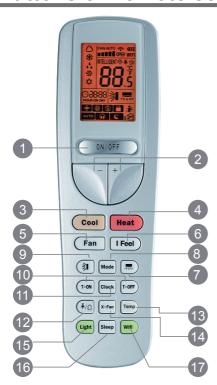
Parts name



NOTICE:

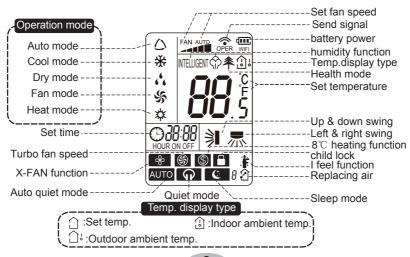
Actual product may be different from above graphics, please refer to actual products.

Buttons on remote controller,



- ON/OFF button
- 2 +/- button
- 3 Cool button
 - 4 Heat button
 - 5 Fan button
 - 6 I Feel button
- 8 Mode button
- 9 🔰 button
- 10 T-ON/T-OFF button
- 11 Clock button
 - 12 ♣/幻 button
- 13 Temp button
- 14 X-Fan button
- 15 Light button
- 16 Sleep button
- Wifi button

Introduction for icons on display screen



Note:

- This is a general use remote controller, it could be used for the air conditioners with multifunction; For some function, which the model doesn't have, if press the corresponding button on the remote controller that the unit will keep the original running status.
- After putting through the power, the air conditioner will give out a sound. Operation indicator " ()" is ON (red indicator). After that, you can operate the air conditioner by using remote controller.
- Under on status, pressing the button on the remote controller, the signal icon ""
 on the display of remote controller will blink once and the air conditioner will give
 out a " di " sound, which means the signal has been sent to the air conditioner.

1 ON/OFF button

Press this button can turn on or turn off the air conditioner. After turning on the air conditioner, operation indicator "()" on indoor unit's display is ON (green indicator. The colour is different for different models), and indoor unit will give out a sound.

2 +/- button

- Press "+" or " " button once increase or decrease set temperature 0.5 ℃.
 Holding "+" or " " button, 2s later, set temperature on remote controller will
 change quickly.On releasing 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 can set fan speed circularly as: low(\blacksquare), low medium(\blacksquare), medium (\blacksquare), medium high(\blacksquare),high(\blacksquare),super(\S),auto(AUTO),quiet(\P).

- Turbo function is not available under dry and auto mode.
- Automatically operate silent 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.

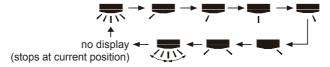
6 I FEEL button

Press this button to start I FEEL function and "." will be displayed on the remote controller. After this function is set, the remote controller 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.

Please put the remote controller near user when this function is set. Do not put
the remote controller near the object of high temperature or low temperature in
order to avoid detecting inaccurate ambient temperature. When I FEEL function
is turned on, the remote controller should be put within the area where indoor unit
can receive the signal sent by the remote controller.

7 kutton

- Under simple swing mode, press this button can turn on (display " \(\overline{\pi}\) " icon) or turn off (not display " \(\overline{\pi}\) " icon) left&right swing function.
- Under OFF status, press "+" button and "¬¬" button simultaneously can switch between simple swing mode and fixed swing mode. During switching time,
 - " " icon on remote controller will flash twice.
- Under fixed-angle swing mode, press this button and the left and right swing status will change in the sequence as below:



8 MODE button

Press this button to select your required operation mode.

- 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 "素" / "乳" 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 controller, press 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 is depend on indoor ambient temperature).
- Set temperature range from remote controller: 16~30°C (61-86°F);

9 🗦 button

- Under simple swing mode, press this button can turn on (display " ⇒ "icon) or turn off (not display " ⇒ "icon) up&down swing function.
- Under OFF status, press "+" button and " ¾ " button simultaneously can switch between simple swing mode and fixed swing mode. During switching time,
 - " 🗦 " icon on remote controller will flash twice.
- Under fixed swing mode, press this button and up and down swing status will change in the sequence as below:

no display ← ↓ ← ↓ ← (horizontal louvers stops at current position)

10 T-ON/T-OFF button

T-ON button

"T-ON" button can set the time for timer on. After pressing this button, " \bigcirc " icon disappears and the word "ON" on remote controller blinks. Press "+" or "-"button to adjust T-ON setting. After each pressing "+" or "-"button, T-ON setting will increase or decrease 1min. 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. " \bigcirc " icon resumes displaying. 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 timer off. After pressing this button, "⊕" icon disappears and the word "OFF" on remote controller blinks. Press "+" or "-" button to adjust T-OFF setting. After each pressing "+" or "-" button, T-OFF setting will increase or decrease 1min. Hold "+" or "-" button, 2s later, the time will change until reaching your required time. Press"T-OFF" to confirm it. The word "ON" will "OFF" will stop blinking. "⊕" icon resumes displaying. 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 the constant circulating valid. 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 controller to cancel it.

11 CLOCK button

Press this button to set clock time. " " icon on remote controller will blink. Press "+" or "-" button within 5s to set clock time. Each pressing of "+" or "-" button, clock time will increase or decrease 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 controller will quit setting status. Operation for TIMER ON/TIMER OFF is the same.

12 辛/ button

Press this button to activate health function with " * " displayed; press this button for the second time to activate health and air in function with " * " and " ① " displayed; press this button for the third time to activate health and air out function with " * " and " ① " displayed; press this button for the fourth time to activate air in function with " ① " displayed; press this button for the fifth time to activate air out function with " ① " displayed; press this button for the sixth time to exit health, air in or air out function.



13 TEMP button

By pressing this button, you can see indoor set temperature, indoor ambient temperature or outdoor ambient temperature on indoor unit's display. The setting on remote controllerÁs selected circularly as below:



- When selecting " \(\bigcap \)" or no display with remote controller, temperature indicator on indoor unit displays set temperature.
- When selecting " with remote controller, temperature indicator on indoor unit displays indoor ambient temperature.
- When selecting " with remote controller, temperature indicator on indoor unit displays outdoor ambient temperature.

Note:

- Outdoor temperature display is not available for some models. At that time, indoor unit receives " \[\] \[\] " signal, while it displays indoor set temperature.
- It's defaulted to display set temperature when turning on the unit. There is no display in the remote controller.
- Only for the models whose indoor unit has dual-8 display.
- When selecting displaying of indoor or outdoor ambient temperature, indoor temperature indicator displays corresponding temperature and automatically turn to display set temperature after three or five seconds.

4 X-FAN button

Pressing this button in COOL or DRY mode, the icon " %" 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 blowed 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. In this period, press X-FAN button to stop indoor fan directly.
- Having set X-FAN function off: After turning off the unit by pressing ON/OFF button, the complete unit will be off directly.

15 LIGHT button

Pressing 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:
 - cancel
- 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:
 - (1) Under Sleep 3 mode, long press "TEMP" button, the remote controller will enter the setting of personalized sleep. In this case, the timer zone of remote controller 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 "TEMP" button to confirm it;
- (3) At this time, the timer time on the remote controller will increase automatically by 1hr (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 controller 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 "TEMP" button to confirm the setting.

Note: In the above setting or inquiry procedure, if there is no button pressing within 10s, remote controller will automatically exit the sleep curve setting and resume the

original display. If ON/OFF, MODE, TIMER, SLEEP, COOLING or HEATING button is pressed during the setting or inquiry procedure, remote controller will also exit the sleep curve 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, quite fan speed will be also turned on.
- Sleep function can not be set in AUTO mode.

17 Wifi button

- Press this button 3s can set wifi function on or OFF.
- At OFF status, press mode button and wifi button, can reset wifi mode parameter.
 and open wifi function.

Function introduction for combination buttons

About X-FAN function

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

- 1. 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. In this period, press X-FAN button to stop indoor fan directly.
- 2. Having set X-FAN function off: After turning off the unit by pressing ON/OFF button, the complete unit will be off directly.

About AUTO RUN

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

About 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 switch between Fahrenheit and Centigrade

Function introduction for combination buttons

Energy-saving function

Under cooling mode, press "TEMP" and "CLOCK" buttons simultaneously to start up or turn off energy-saving function. When energy-saving function is started up, "SE" will be shown on remote controller, and air conditioner will adjust the set temperature automatically according to ex-factory setting to reach to the best energy-saving effect. Press "TEMP" and "CLOCK" buttons simultaneously again to exit energy-saving function.

Note:

- Under energy-saving function, fan speed is defaulted at auto speed and it can't be adjusted.
- Under energy-saving function, set temperature can't be adjusted.
- Sleep function and energy-saving function can't operate at the same time. If
 energy-saving function has been set under cooling mode, press sleep button will
 cancel energy-saving function. If sleep function has been set under cooling
 mode, start up the energy-saving function will cancel sleep function.

8[°]C heating function

Under heating mode, press "TEMP" and "CLOCK" buttons simultaneously to start up or turn off $8^\circ\mathbb{C}$ heating function. When this function is started up, "\$" and " $8^\circ\mathbb{C}$ " will be shown on remote controller, and the air conditioner keep the heating status at $8^\circ\mathbb{C}$. Press "TEMP" and "CLOCK" buttons simultaneously again to exit $8^\circ\mathbb{C}$ heating function.

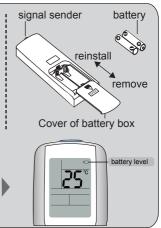
Note:

- Under 8℃ heating function, fan speed is defaulted at auto speed and it can't be adjusted.
- Under 8°C heating function, set temperature can't be adjusted.
- Sleep function and 8° C heating function can't operate at the same time. If 8° C heating function has been set under heating mode, press sleep button will cancel 8° C heating function. If sleep function has been set under heating mode, start up the 8° C heating function will cancel sleep function.
- \bullet Under ${}^\circ\! F$ temperature display, the remote controller will display 46 ${}^\circ\! F$ heating.

Replacement of batteries in remote controller

- Press the back side of remote controller marked with "
 ", as shown in the fig, and then push out the cover of battery box along the arrow direction.
- 2. Replace two 7# (AAA 1.5V) dry batteries, and make sure the position of "+" polar and "-" polar are correct.
- 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.



NOTICE

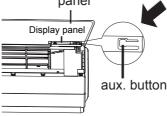
- During operation, point the remote control signal sender at the receiving window on indoor unit.
- The distance between signal sender and receiving window should be no more than 8m, and there should be no obstacles between them.
- Signal may be interfered easily in the room where there is fluorescent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

Emergency operation

If remote controller is lost or damaged, please use aux. button to turn on or turn off the air conditioner. The operation in details is as below:

As shown in the fig. Open panel, press aux. button to turn on or turn off the air conditioner. When the air conditioner is turned on, it will operate under auto mode.

panel



! 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 air conditioner 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.
- Do not use liquid or corrosive detergent clean the appliance and do not splash water or other liquid onto it, otherwise, it may damage the plastic components, even cause electric shock.

Clean surface of indoor unit

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

NOTICE:

• Do not remove the panel when cleaning it.

Clean and Maintenance

Clean filter

1

Open panel

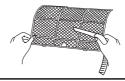
Open the panel into a certain angle(less than 60°, do not open the panel too forcibly) along the arrow direction from the two sides of panel.



3

Clean filter

- Use dust catcher or water to clean the filter.
- When the filter is very dirty, use the water (below 45°C) to clean it, and then put it in a shady and cool place to dry.



2

Remove filter

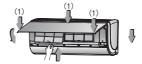
Remove the filter as indicated in the fig.



4

Install filter

Install the filter and then close the panel cover tightly.(Press the arrow (1) position to check whether it buckled tightly.)





WARNING

- The filter should be cleaned every three months. If there is much dust in the operation environment, clean frequency can 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.

Clean and Maintenance

NOTICE: Checking before use-season

- 1. Check whether air inlets and air outlets are blocked.
- 2. Check whether air switch, plug and socket are in good condition.
- 3. Check whether filter is clean.
- 4. Check whether mounting bracket for outdoor unit is damaged or corroded. If yes, please contact dealer.
- 5. Check whether drainage pipe is damaged.

NOTICE: Checking after use-season

- Disconnect power supply.
- 2. Clean filter and indoor unit's panel.
- 3. Check whether mounting bracket for outdoor unit is damaged or corroded. If yes, please contact dealer.

Notice for recovery

- Many packing materials are recyclable materials.
 Please dispose them in appropriate recycling unit.
- 2. If you want to dispose the air conditioner, please contact local dealer or consultant service center for the correct disposal method.

Malfunction analysis

General phenomenon analysis

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

Phenomenon	Check items	Solution
	 Whether it's interfered severely (such as static electricity, stable voltage)? 	
	 Whether remote controller is within the signal receiving range? 	Signal receiving range is 8m.
Indoor unit	Whether there are obstacles?	Remove obstacles.
can't receive remote controller's	 Whether remote controller is pointing at the receiving window? 	 Select proper angle and point the remote controller at the re- ceiving window on indoor unit.
signal or remote controller has no	 Is sensitivity of remote contro- ller low; fuzzy display and no display? 	 Check the batteries. If the power of batteries is too low, please replace them.
action.	No display when operating remote controller?	 Check whether remote cont- roller appears to be damaged. If yes, replace it.
	Fluorescent lamp in room?	Take the remote controller close to indoor unit.
		Turn off the fluorescent lamp and then try it again.
	 Air inlet or air outlet of indoor unit is blocked? 	Eliminate obstacles.
No air emitted from	 Under heating mode, indoor temperature is reached to set temperature? 	 After reaching to set temper- ature, indoor unit will stop bl- owing out air.
indoor unit	Heating mode is turned on just now?	 In order to prevent blowing out cold air, indoor unit will be started after delaying for sev- eral minutes, which is a nor- mal phenomenon.

Malfunction analysis

Phenomenon	Check items	Solution
	Power failure?Is plug loose?	Wait until power recovery.Reinsert the plug.
	Air switch trips off or fuse is burnt out?	Ask professional to replace air switch or fuse.
Air condit- ioner can't	Wiring has malfunction?	• Ask professional to replace it.
operate	 Unit has restarted immediately after stopping operation? 	Wait for 3min, and then turn on the unit again.
	 Whether the function setting for remote controller is correct? 	Reset the function.
Mist is emitted from indoor unit's air outlet • Indoor temperature and humidity is high?		Because indoor air is cooled rapidly. After a while, indoor temperature and humidity will be decrease and mist will disappear.
Set temper- ature can't	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.
be adjusted	 Your required temperature exceeds the set temperature range? 	• Set temperature range: 16℃ ~30℃.
	Voltage is too low?	Wait until the voltage resumes normal.
Cooling	• Filter is dirty?	Clean the filter.
(heating) effect is not good.	• Set temperature is in proper range?	Adjust temperature to proper range.
	Door and window are open?	Close door and window.

Malfunction analysis/

Phenomenon	Check items	Solution
Odours are emitted	Whether there's odour source, such as furniture and cigarette, etc.	Eliminate the odour source.Clean the filter.
Air conditioner operates abnormally	Whether there's interference, such as thunder, wireless devices, etc.	Disconnect power, put back power, and then turn on the unit again.
"Water flowing" noise	Air conditioner is turned on or turned off just now?	The noise is the sound of refrigerant flowing inside the unit, which is a normal phenomenon.
Cracking noise	Air conditioner is turned on or turned off just now?	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 to display corresponding error code. Please refer to below list for identification of error code.

Error code	Troubleshooting
E1	It can be eliminated after restarting the unit. If not , please contact qualified professionals for service.
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.
H3	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.
F0	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.



- When below phenomenon occurs, please turn off air conditioner and disconnect power immediately, and then contact the dealer or qualified professionals for service.
 - Power cord is overheating or damaged.
 - There's abnormal sound during operation.
 - Air switch trips off frequently.
 - Air conditioner gives off burning smell.
 - Indoor unit is leaking.
- Do not repair or refit the air conditioner by yourself.
- If the air conditioner operates under abnormal conditions, it may cause malfunction, electric shock or fire hazard.

Safety operation of flammable refrigerant

Qualification requirement for installation and maintenance man

- All the work men who are engaging in the refrigeration system should bear the
 valid certification awarded by the authoritative organization and the qualification
 for dealing with the refrigeration system recognized by this industry. If it needs
 other technician to maintain and repair the appliance, they should be supervised
 by the person who bears the qualification for using the flammable refrigerant.
- It can only be repaired by the method suggested by the equipment's manufacturer.

Installation notes

- The air conditioner is not allowed to use in a room that has running fire (such as fire source, working coal gas ware, operating heater).
- It is not allowed to drill hole or burn the connection pipe.
- The air conditioner must be installed in a room that is larger than the minimum room area. The minimum room area is shown on the nameplate or following table a.
- Leak test is a must after installation.

Charge amount (kg) ≤1.2 1.3 1.4 1.5 1.6 1.8 1.9 2 2.1 2.2 2.3 2.4 2.5 22 24.8 27.8 31 34.3 37.8 41.5 45.4 49.4 53.6 floor location 14.5 16.8 19.3 Minimum 5.2 6.1 7.9 8.9 10 11.2 12.4 13.6 15 16.3 17.8 19.3 window mounted room area(m2) 2.8 3.4 3.8 4.2 4.6 wall mounted 1.6 1.9 2.1 2.4 3.1 5.5 6 ceiling mounted 1.1 1.3 1.4 1.6 1.8 2.1 2.3 2.6 2.8 3.1 3.4 3.7

table a - Minimum room area (m2)

Maintenance notes

- Check whether the maintenance area or the room area meet the requirement of the nameplate.
 - It's only allowed to be operated in the rooms that meet the requirement of the nameplate.
- Check whether the maintenance area is well-ventilated.
 - The continuous ventilation status should be kept during the operation process.
- Check whether there is fire source or potential fire source in the maintenance area.
 - The naked flame is prohibited in the maintenance area; and the "no smoking" warning board should be hanged.
- Check whether the appliance mark is in good condition.
 - Replace the vague or damaged warning mark.

Welding

• If you should cut or weld the refrigerant system pipes in the process of maintaining, please follow the steps as below:

Safety operation of flammable refrigerant

- a. Shut down the unit and cut power supply
- b. Eliminate the refrigerant
- c. Vacuuming
- d. Clean it with N2 gas
- e. Cutting or welding
- f. Carry back to the service spot for welding
- The refrigerant should be recycled into the specialized storage tank.
- Make sure that there isn't any naked flame near the outlet of the vacuum pump and it's well-ventilated.

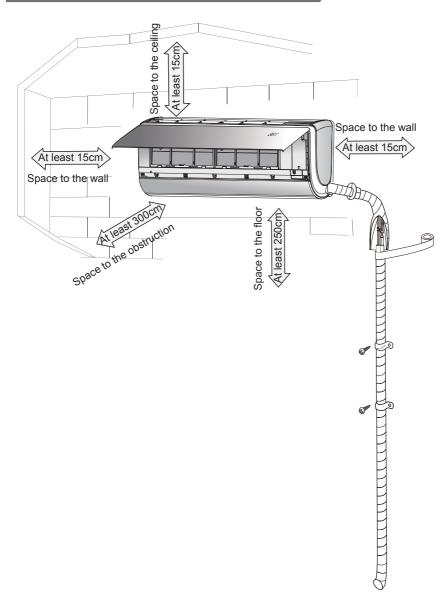
Filling the refrigerant

- Use the refrigerant filling appliances specialized for R32. Make sure that different kinds of refrigerant won't contaminate with each other.
- The refrigerant tank should be kept upright at the time of filling refrigerant.
- Stick the label on the system after filling is finished (or haven't finished).
- Don't overfilling.
- After filling is finished, please do the leakage detection before test running; another time of leak detection should be done when it's removed.

Safety instructions for transportation and storage

- Please use the flammable gas detector to check before unload and open the container.
- No fire source and smoking.
- · According to the local rules and laws.

Installation dimension diagram



Safety precautions for installing and relocating the unit

To ensure safety, please be mindful of the following precautions.

Marning

- When installing or relocating the unit, be sure to keep the refrigerant circuit free from air or substances other than the specified refrigerant.
 Any presence of air or other foreign substance in the refrigerant circuit will cause system pressure rise or compressor rupture, resulting in injury.
- When installing or moving this unit, do not charge the refrigerant which is not comply with that on the nameplate or unqualified refrigerant.
 Otherwise, it may cause abnormal operation, wrong action, mechanical malfunction or even series safety accident.
- When refrigerant needs to be recovered during relocating or repairing the unit, be sure that the unit is running in cooling mode. Then, fully close the valve at high pressure side (liquid valve). About 30-40 seconds later, fully close the valve at low pressure side (gas valve), immediately stop the unit and disconnect power. Please note that the time for refrigerant recovery should not exceed 1 minute.
 - If refrigerant recovery takes too much time, air may be sucked in and cause pressure rise or compressor rupture, resulting in injury.
- During refrigerant recovery, make sure that liquid valve and gas valve are fully closed and power is disconnected before detaching the connection pipe.
 If compressor starts running when stop valve is open and connection pipe is not yet connected, air will be sucked in and cause pressure rise or compressor rupture, resulting in injury.
- When installing the unit, make sure that connection pipe is securely connected before the compressor starts running.
 If compressor starts running when stop valve is open and connection pipe is not yet connected, air will be sucked in and cause pressure rise or compressor rupture, resulting in injury.
- Prohibit installing the unit at the place where there may be leaked corrosive gas or flammable gas.
 - If there leaked gas around the unit, it may cause explosion and other accidents.
- Do not use extension cords for electrical connections. If the electric wire is not long enough, please contact a local service center authorized and ask for a proper electric wire.
 - Poor connections may lead to electric shock or fire.
- Use the specified types of wires for electrical connections between the indoor and outdoor units. Firmly clamp the wires so that their terminals receive no external stresses.
 - Electric wires with insufficient capacity, wrong wire connections and insecure wire terminals may cause electric shock or fire.

Tools for installation

1 Level meter	1 Level meter 2 Screw dr		3 Impact drill
4 Drill head	Drill head 5 Pipe exp		6 Torque wrench
7 Open-end wrench	8 Pipe cut	ter	9 Leakage detector
10 Vacuum pump 11 Pressui		re meter	12 Universal meter
13 Inner hexagon spanner		14	Measuring tape

Note:

- Please contact the local agent for installation.
- Don't use unqualified power cord.

Selection of installation location

Basic requirement

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

- 1. The place with strong heat sources, vapors, flammable or explosive gas, or volatile objects spread in the air.
- 2. The place with high-frequency devices (such as welding machine, medical equipment).
- 3. The place near coast area.
- 4. The place with oil or fumes in the air.
- 5. The place with sulfureted gas.
- 6. Other places with special circumstances.
- 7. The appliance shall not be installed in the laundry.
- 8. It's not allowed to be installed on the unstable or motive base structure (such as truck) or in the corrosive environment (such as chemical factory).

Indoor unit

- 1. There should be no obstruction near air inlet.
- 2. Select a location where the condensation water can be dispersed easily and won't affect other people.
- 3. Select a location which is convenient to connect the outdoor unit and near the power socket.
- 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 the electric appliance.
- 8. Please try your best to keep way from fluorescent lamp.

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 or malfunction. Please install proper power supply cables before using the air conditioner.
- 4. Properly connect the live wire, neutral wire and grounding wire of power socket.
- 5. Be sure to cut off the power supply before proceeding any work related to electricity and safety. For models with a power plug, make sure the plug is within reach after installation.
- 6. Do not put through the power before finishing installation.
- 7. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- 8. The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
- 9. The appliance shall be installed in accordance with national wiring regulations.
- 10. Appliance shall be installed, operated and stored in a room with a floor area larger than Xm². (Please refer to table "a" in section of " Safety operation of flammable refrigerant " for Space X.)



Please notice that the unit is filled with flammable gas R32. Inappropriate treatment of the unit involves the risk of severe damages of people and material. Details to this refrigerant are found in chapter "refrigerant".

Grounding requirement

- 1. The air conditioner is the first class electric appliance. It must be properly grounding 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 grounding wire, which can't be used for other purposes.
- 3. The grounding resistance should comply with national electric safety regulations.
- 4. The appliance must be positioned so that the plug is accessible.
- 5. An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.

Step one: choosing installation location

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

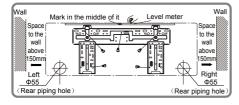
Step two: install wall-mounting frame

- 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 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 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 nesrby.

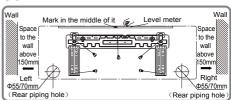
Step three: open piping hole

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.

UB:



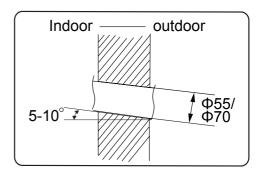
UC:



2. Open a piping hole with the diameter of Φ 55 or Φ 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 5-10°.

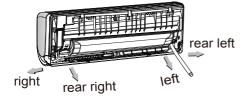
Note:

 Pay attention to dust prevention and take relevant safety measures when opening the hole.

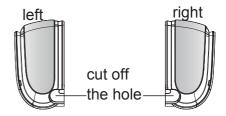


Step four: outlet pipe

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

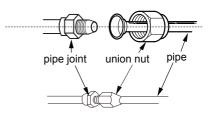


When select leading out the pipe from left or right, please cut off the corresponding hole on the bottom case.

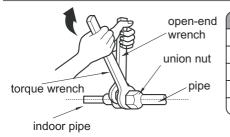


Step five: connect the pipe of indoor unit

- 1. Aim the pipe joint at the corresponding bellmouth.
- 2. Pretighten the union nut with hand.

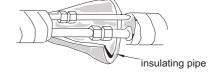


3. Adjust the torque force by referring to the following sheet. Place the open-end wrench on the pipe joint and place the torque wrench on the union nut. Tighten the union nut with torque wrench.



Hex nut diameter	Tightening torque (N·m)
Ф6	15~20
Ф 9.52	30~40
Ф 12	45~55
Ф 16	60~65
Ф 19	70~75

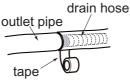
4. Wrap the indoor pipe and joint of connection pipe with insulating pipe, and then wrap it with tape.

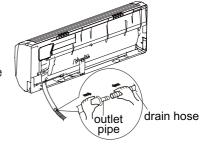


Step six: install drain hose

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

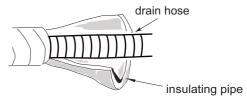
2. Bind the joint with tape.





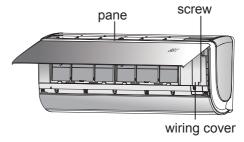
Note:

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

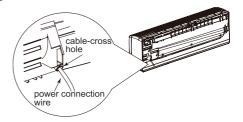


Step seven: connect wire of indoor unit

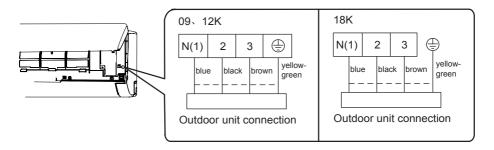
 Open the panel, remove the screw on the wiring cover and then take down the cover.



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.



Note: the wiring board is for reference only, please refer to the actual one.

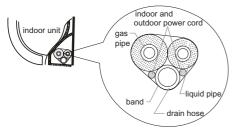
- 4. Put wiring cover back and then tighten the screw.
- 5. Close the panel.

Note:

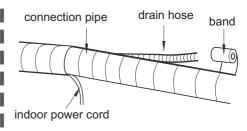
- All wires of indoor unit and outdoor unit should be connected by a professional.
- If the length of power connection wire is insufficient, please contact the supplier for a new one. Avoid extending the wire by yourself.
- For the air conditioner with plug, the plug should be reachable after finishing installation.
- For the air conditioner without plug, 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.

Step eight: bind up pipe

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



 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.



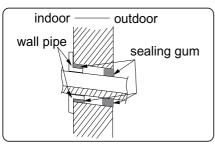
- 3. Bind them evenly.
- 4. The liquid pipe and gas pipe should be bound separately at the end.

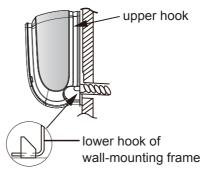
Note:

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

Step nine: hang the indoor unit

- 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 closed to the wall.





Note:

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

Check after installation

• Check according to the following requirement after finishing installation.

Items to be checked	Possible malfunction
items to be checked	Possible manufiction
Has the unit been installed 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 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 damaging the parts.
Is electric wiring and pipeline installed correctly?	It may cause malfunction or damaging the parts.
Is the unit grounded securely?	It may cause electric leakage.
Does the power cord follow the specification?	It may cause malfunction or damaging the parts.
Is there any obstruction in the air inlet and outlet?	It may cause insufficient cooling (heating) capacity.
The dust and sundries caused during installation are removed?	It may cause malfunction or damaging the parts.
The gas valve and liquid valve of connection pipe are open completely?	It may cause insufficient cooling (heating) capacity.
Is the inlet and outlet of piping hole been covered?	It may cause insufficient cooling (heating) capacity or waster eletricity.

Test operation

1. Preparation of test operation

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

2. Method of test operation

- Put through the power, press ON/OFF button on the remote controller to start operation.
- Press MODE button to select AUTO, COOL, DRY, FAN and HEAT to check whether the operation is normal or not.

Configuration of connection pipe

- 1. Standard length of connection pipe
 - 5m \ 7.5m \ 8m
- 2. Min. length of connection pipe

For the unit with standard connection pipe of 5m, there is no limitation for the min. length of connection pipe. For the unit with standard connection pipe of 7.5m and 8m, the min. length of connection pipe is 3m.

3. Max. length of connection pipe

Sheet 1 Max. length of connection pipe

capacity	Max. length of connection pipe
5000Btu/h (1465W)	15
7000Btu/h (2051W)	15
9000Btu/h (2637W)	15
12000Btu/h (3516W)	20
18000Btu/h (5274W)	25

cotion pipe		Offic. III
	capacity	Max. length of connection pipe
	24000Btu/h (7032W)	25
	28000Btu/h (8204W)	30
	36000Btu/h (10548W)	30
	42000Btu/h (12306W)	30
	48000Btu/h (14064W)	30

Unit: m

4. The calculation method of additional refrigerant oil and refrigerant charging amount after prolonging connection pipe

After the length of connection pipe is prolonged for 10m at the basis of standard length, you should add 5ml of refrigerant oil for each additional 5m of connection pipe.

The calculation method of additional refrigerant charging amount (on the basis of liquid pipe):

- (1) Additional refrigerant charging amount= prolonged length of liquid pipe × additional refrigerant charging amount per meter
- (2) Basing on the length of standard pipe, add refrigerant according to the requirement as shown in the table. The additional refrigerant charging amount per meter is different according to the diameter of liquid pipe. See Sheet 2.

Configuration of connection pipe

Sheet 2. Additional refrigerant charging amount for R32

Diameter of connection pipe mm		Indoor unit throttle	Outdoor unit throttle	
Liquid pipe	Gas pipe	Cooling only, cooling and heating (g / m)	Cooling only (g / m)	cooling and heating (g / m)
Ф6	Ф9.5 ог Ф12	16	12	16
Ф6 ог Ф9.5	Ф16 or Ф19	40	12	40
Ф12	Ф19 ог Ф22.2	80	24	96
Ф16	Ф25.4 ог Ф31.8	136	48	96
Ф19	-	200	200	200
Ф22.2	-	280	280	280

Note: The additional refrigerant charging amount in Sheet 2 is recommended value, not compulsory.

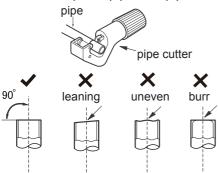
Pipe expanding method

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

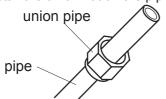
 Remove the burrs with shaper and prevent the burrs from getting into the pipe.



C: Put on suitable insulating pipe

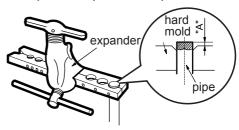
D: Put on the union nut

 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:

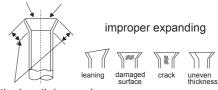
 "A" is different according to the diameter, please refer to the sheet below:

Outer diameter	A(mm)		
(mm)	Max	Min	
Ф6-6.35(1/4")	1.3	0.7	
Ф9.52(3/8")	1.6	1.0	
Ф12-12.7(1/2")	1.8	1.0	
Ф15.8-16(5/8")	2.4	2.2	

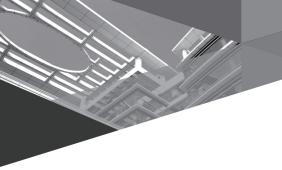
F: Inspection

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

smooth surface



the length is equal





GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

Add: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070

Tel: (+86-756) 8522218 Fax: (+86-756) 8669426 E-mail: gree@gree.com.cn Web: www.gree.com



600005061875