



Split Air Conditioner

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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@cn.gree.com for the electronic version.

Notice:

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

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GWH07QA-K3DNA2C/I
GWH07QA-K3DNA3C/I
GWH07QA-K3DNB6C/I
GWH07QA-K3DNA5C/I
GWH07QA-K3DNB8C/I
GWH07QA-K3DNB2C/I
GWH07QA-K3DNB4C/I
GWH07QA-K3DNA6C/I
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GWH07QA-K3DND8C/I
GWH07QA-K3DNC6C/I
GWH09QB-K3DNA6D/I
GWH09QB-K3DNB6D/I
GWH09QB-K3DNA6C/I
GWH09QB-K3DNB4C/I
GWH09QB-K1NNB6C/I
GWH09QB-K3DNA5C/I
GWH09QB-K3DNA2C/I
GWH09QB-K3DNA3C/I
GWH09QB-K3DNB6C/I
GWH09QB-K3DNB2C/I
GWH09QB-K3DNA1C/I
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GWH09QB-K3DNC2D/I
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Explanation of Symbols



This symbol indicates the possibility of death or serious injury.

NOTICE

This symbol indicates the possibility of injury or damage to property.

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

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, the 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.

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.

R410A(R32/125: 50/50): 2088

Installation

- Installation or maintenance must be performed by qualified professionals.
- The appliance shall be installed in accordance with national wiring regulations.
- According to the local safety regulations, use qualified power supply circuit and circuit breaker.
- All wires of indoor unit and outdoor unit should be connected by a professional.
- Be sure to cut off the power supply before proceeding any work related to electricity and safety.
- 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.

- The grounding resistance should comply with national electric safety regulations.
- Air Conditioner should be properly grounded. Incorrect grounding may cause electric shock.
- Do not put through the power before finishing installation.
- Do install the circuit breaker. 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.
- Circuit breaker should be included magnet buckle and heating buckle function. It can protect the overload and circuit-short.

Installation

- Instructions for installation and use of this product are provided by the manufacturer.
- 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.
- Don't use unqualified power cord.
- If the length of power connection wire is insufficient, please contact the supplier for a new one.
- The appliance must be positioned so that the plug is accessible.
- For the air conditioner with plug, the plug should be reachable after finishing installation.

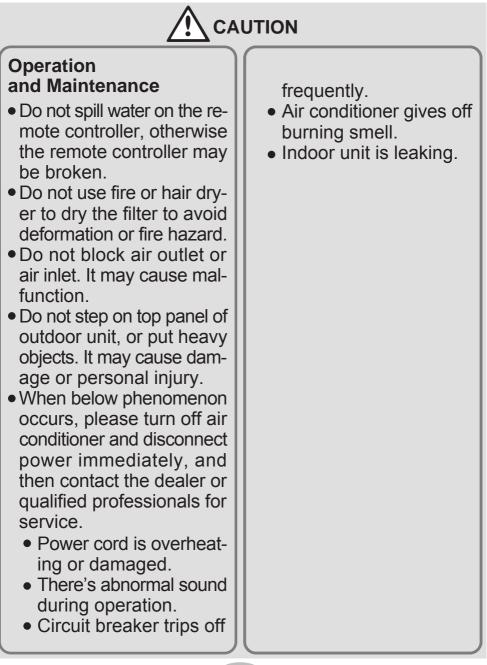
- For the air conditioner without plug, a circuit breaker must be installed in the line.
- The yellow-green wire in air conditioner is grounding wire, which can't be used for other purposes.
- The air conditioner is the first class electric appliance. It must be properly grounder with specialized grounding device by a professional. Please make sure it is always grounded effectively, otherwise it may cause electric shock.
- The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.

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.
- 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 connect air condi-

tioner to multi-purpose socket. Otherwise, it may cause fire hazard.

- Do disconnect power supply when cleaning air conditioner. Otherwise, it may cause electric shock.
- 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.
- Do not repair air conditioner by yourself. It may cause electric shock or damage. Please contact dealer when you need to repair air conditioner.
- After removing the filter, do not touch fins to avoid injury.
- Do not extend fingers or objects into air inlet or air outlet. It may cause personal injury or damage.



Parts name

Indoor Unit air inlet panel filter indefinition aux. button air outlet horizontal louver 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 figure, open panel and press aux.button to turn off the air conditioner. When the air conditioner is turned on, it will operate under auto mode.

Display

Heat mode	¢	容 R:red indicator R (only for heat model)
Cool mode	\Re	
Dry mode	د ^د د	Gigreen indicator
Temp. indicator	26	
Power indicator	ل	

Notice

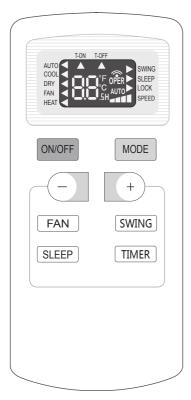
• This is the general introduction and the color of indicator is only for reference. Please refer to the actual display.

• Display content may be different from the actual. Please refer to the actual display.

Operation and introduction of remote controller

Buttons on remote controller

Introduction for icons on display screen



AUTO	Auto mode		
COOL	Cool mode		
DRY	Dry mode		
FAN	Fan mode		
HEAT	Heat mode		
T-ON	Timer on		
T-OFF	Timer off		
SWING	Swing operation		
SLEEP	Sleep operation		
LOCK	Lock		
SPEED	Set speed		
88	Set temperature		
.SH	Set time		
OPER	Send signal		

Introduction for buttons on remote controller

Notice

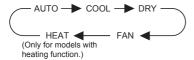
- This is a general use remote controller. It could be used for the air conditioner with multifunction. For the functions which the model doesn't have, if press the corresponding button on the remote controller, the unit will keep the original running status.
- When power is connected(stand by condition), you can operate the air conditioner through the remote controller
- When unit is on, each time you press the button on remote controller, the sending signal icon " ? on the display of remote controller will blink once. If the air conditioner gives out a beep sound, it means the signal has been sent.
- When unit is off, set temperature will be displayed on the remote controller (If the light of indoor unit display is turned on, the corresponding icon will be displayed); When unit is on, it will display the icon of the on-going function.

ON/OFF button

Press this button to turn unit ON/OFF.

MODE button

Pressing this button once can select your required mode circularly as below (the corresponding icon " **I** will be lit up after the mode is selected):



- When selecting auto mode, air conditioner will operate automatically according to ambient temperature. Set temperature can't be adjusted and won't be displayed either. Press Fan button to adiust fan speed.
- When selecting cool mode, air conditioner will operate under cool mode. Then press + or - button to adjust set temperature. Press Fan button to adjust fan speed.
- . When selecting dry mode, air conditioner will operate at low fan speed under dry mode. In dry mode, fan speed can't be adjusted.
- . When selecting fan mode, air conditioner will operate in fan mode only. Then press Fan button to ad-

just fan speed.

. When selecting heat mode, air conditioner will operate under heat mode. Then press + or - button to adjust set temperature. Press Fan button to adjust fan speed. (Cooling only unit can't receive heating mode signal. If set heat mode by remote controller, press ON/OFF button can't turn on the air conditioner.)

+) button

- Pressing + or button once will increase or decrease set temperature by 1°F(°C). Hold + or button for 2s, set temperature on remote controller will change quickly. Release the button after your required set temperature is reached. (Temperature can't be adjusted under auto mode)
- When setting Timer On or Timer Off, press + or button to adjust the time. (See TIMER Button for setting details)

FAN button

Pressing this button can select fan speed circularly as: AUTO, SPEED 1 (a), SPEED 2 (a), SPEED 3 (____), SPEED 4 (____).

Notice

- Under Auto speed, air conditioner will select proper fan speed automatically according to ambient temperature.
- Fan speed can't be adjusted under dry mode.

SWING button

Press this button to turn on up & down air swing.

SLEEP button

Under Cool, Heat and Dry mode, press this button to turn on Sleep function. Press this button to cancel Sleep function. Under Fan and Auto mode, this function is unavailable.

TIMER button

 When unit is on, press this button to set Timer Off. T-OFF and H icon will be blinking. Within 5s,

press + or - button to adjust the time for Timer Off. Pressing + or - button once will increase or decrease the time by 0.5h. Hold + or - button for 2s, time will change quickly. Release the button after your required set time is reached. Then press TIMER button to confirm it. T-OFF and H icon will stop blinking.

- When unit is off, press this button to set Timer On. T-ON and H icon will be blinking. Within 5s, press + or - button to adjust the time for Timer On. Pressing + or - button once will increase or decrease the time by 0.5h. Hold + or - button for 2s, time will change quickly. Release the button after your required set time is reached. Then press TIMER button to confirm it. T-ON and H icon will stop blinking.
- Cancel Timer On/Off: If Timer function is set up, press TIMER button once to review the remaining time. Within 5s, press TIMER button again to cancel this function.

Notice

- Range of time setting is: 0.5~24h.
- The interval between two motions can't exceed 5s, otherwise the remote controller will exit setting status.

Function introduction for combination buttons

Child lock function

Press "+" and "-" buttons simultaneously can turn on or turn off child lock function. When child lock function is started up, child lock indicator on remote controller is ON. If you operate the remote controller, remote controller won't send signal.

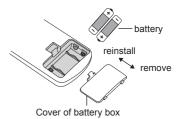
Temperature display switchover function

Under OFF status, press "-" button and "MODE" button simultaneously can switch between °C and °F.

Light function

Under switch-on or switch-off state, you may hold "+" and "FAN" buttons simultaneously for 3 seconds to set the lamp on or off and send the code. After being energized the lamp is defaulted on.

Replacement of batteries in remote controller



- Press the back side of remote controller on the spot marked with """, and then push out the cover of battery box along the arrow direction.
- Replace two 7# (AAA 1.5V) dry batteries and make sure the positions of + and - polar are correct.
- 3. Reinstall the cover of battery box.

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.

Clean and maintenance

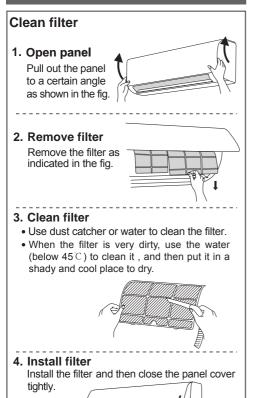
- Turn off the air conditioner and disconnect the power before cleaning the air conditioner to avoid electric shock.
- Do not wash the air conditioner with water to avoid electric shock.
- Do not use volatile liquid to clean the air conditioner.
- Do not use liquid or corrosive detergent to clean the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



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.

Notice: Checking before use-season

- 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

- 1.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

- 1. 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.

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
U8, H6, H3, E1, E5, E6, E8	It can be eliminated after restarting the unit. If not, please contact qualified professionals for service.
C5, F0, F1, F2	Please contact qualified professionals for service.

Notice

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

Checked items before maintenance

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.

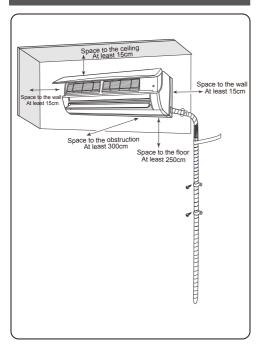
Phenomenon	Check items	Solution
	Whether it's interfered severely (such as sta- tic electricity, stable voltage?)	Pull out the plug. Reinsert the plug after about 3min, and then turn on the unit again.
	Whether remote co- ntroller is within the signal receiving range?	Signal receiving range is 8m.
Indoor unit	Whether there are obstacles?	Remove obstacles.
can't receive remote co- ntroller's si- gnal or remote controller has	Whether remote co- ntroller is pointing at the receiving window?	Select proper angle and point the remote controller at the rece- iving window on indoor unit.
no action.	Is sensitivity of rem- ote controller low; fuzzy display or no display?	Check the batteries. If the power of batteries is too low, please rep- lace them.
	No display when op- erating remote cont- roller?	Check whether rem- ote controller appears to be damaged. If yes, replace it.
	Fluorescent lamp in room?	Take the remote con- troller close to indoor unit. Turn off the fluo- rescent lamp and then try it again.
	Air inlet or air outlet of indoor unit is blocked?	Eliminate obstacles.
No air emitted	Under heating mode, indoor temperature is reached to set temp- erature?	After reaching to set temperature, indoor unit will stop blowing out air.
from 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 several minutes, which is a normal phenomenon.
	Power failure?	Wait until power recovery.
	Is plug loose?	Reinsert the plug.
Air	Air switch trips off or fuse is burnt out?	Ask professional to replace air switch or fuse.
conditioner can't operate	Wiring has malfunc- tion?	Ask professional to replace it.
can t 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 emi- tted from indoor unit's air outlet	Indoor temperature and humidity is high?	Because indoor air is cooled rapidly. After a while, indoor temperature and hu- midity will be decrease and mist will disappear.

Phenomenon	Check items	Solution
Odours are emitted	Whether there's od- our source, such as furniture and cigare- tte, etc.	Eliminate the odour source. Clean the filter.
Set tempe- rature can't	Unit is operating un- der 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 temp- erature exceeds the set temperature range?	Set temperature range: 16C~30C.
Cooling	Voltage is too low?	Wait until the voltage resumes normal.
(heating)	Filter is dirty?	Clean the filter.
effect is not good.	Set temperature is in proper range?	Adjust temperature to proper range.
	Door and window are open?	Close door and window.
Air conditi- oner operates abnormally	Whether there's inte- rference, such as thunder, wireless devices, etc.	Disconnect power, put back power, and then turn on the unit again.
Outdoor unit has vapor	Heating mode is turned on?	During defrosting under heating mode, it may generate vapor, which is a normal phenomenon.
"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 temp- erature.



- 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.

Installation notice



Safety precautions for installing and relocating the unit

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



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 serious safety accident.

When refrigerant needs to be recovered during relocating or repairing the unit, be

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 is 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.



Selection of installation location

Basic requirement

Installing the unit in the following places may cause malfunction. If it is unavoidable, please consu-It 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 and air outlet.
- Select a location where the condensation water can be dispersed easily and won't affect other people.
- 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.

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.
- 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.
- 6.Do not put through the power before finishing installation.

Requirements for electric connection

- 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.

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.

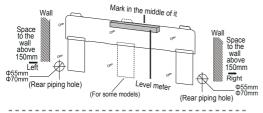
Installation of indoor unit

Step 1: Choose installation location

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

Step 2: Install wall-mounting frame

- 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.
- 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 nearby.



Step 3: Open piping hole

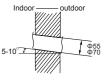
 Choose the position of piping hole according to the direction of outlet pipe. The position of piping hole should be a little lower than the wall-mounted frame, shown as below.

Notice

- The wall panel is for illustrative purposes only, please refer to the actual installation.
- Please refer to the actual circumstances for the number of screws and the position of screws.
- 2. When installation is finished, pull the mounting plate with hand to confirm whether it is fixed tightly. The force distribution for all screws should be uniform.
- Open a piping hole with the diameter of Φ55 or Φ70 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°.

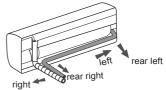
Notice

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

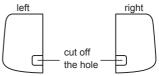


Step 4: Outlet pipe

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



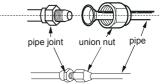
2. When select leading out the pipe from left or right, please cut off the corresponding hole on the bottom case.



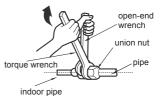
Step 5:

Connect the pipe of indoor unit

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

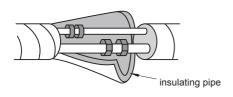


3. Adjust the torque force by referring to the following sheet. Place the open-end wrench on the pipe joint and place the torque wrench on the union nut. Tighten the union nut with torque wrench.



Hex nut diameter	Tightening torque (N·m)
1/4"	15~20
3/8"	30~40
1/2"	45~55
5/8''	60~65
3/4"	70~75

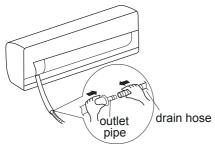
4. Wrap the indoor pipe and joint of connection pipe with insulating pipe, and then wrap it with tape.



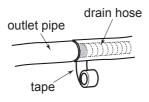
Step 6:

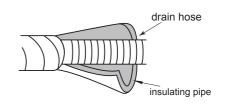
Install drain hose

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



2. Bind the joint with tape.





Notice

 Add insulating pipe in the indoor drain hose in order to prevent condensation.

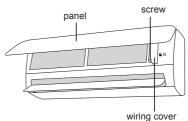
The plastic expansion particles are not provided.

Step 7: Connect wire of indoor unit

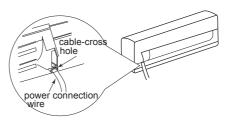
Notice

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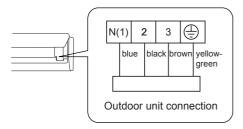
- All wires of indoor unit and outdoor unit should be connected by a professional.
- If the length of power connection wire is insufficient, please contact the supplier for a new one. Avoid extending the wire by yourself.
- For the air conditioner with plug, the plug should be reachable after finishing 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.
- 1. Open the panel, remove the screw on the wiring cover and then take down the cover.



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.



Notice

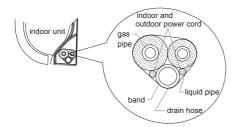
 The wiring board is for reference only, please refer to the actual one.

4. Put wiring cover back and then tighten the screw.

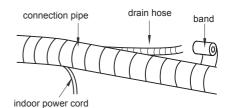
5. Close the panel.

Step 8: Bind up pipe

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



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.



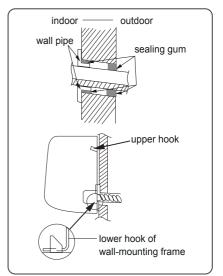
- 3. Bind them evenly.
- 4. The liquid pipe and gas pipe should be bound separately at the end.

Notice

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

Step 9: 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.
- 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.



Notice

 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
Has the unit been installed firmly?	The unit may drop, shake or emit noise.
Have you done the refri- gerant leakage test?	It may cause insufficient cooling(heating) capacity.
Is heat insulation of pipe- line 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 pip- eline installed correctly?	It may cause malfunction or damage the parts.
Is the unit grounded securely?	It may cause electric leakage.
Does the power cord fol- low the specification?	It may cause malfunction or damage 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 damage 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 waste electricity.

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.
- If the ambient temperature is lower than 16 °C, the air conditioner can't start cooling.

Configuration of connection pipe

- 1. Standard length of connection pipe: 5m, 7.5m, 8m.
- 2. Min. length of connection pipe is 3m.
- 3. Max. length of connection pipe is shown as below.

Max. length of connection pipe					
Max. length of connection pipe(m)					
15					
15					
15					
20					
25					
25					
30					
30					
30					
30					

- 4. The additional refrigerant oil and refrigerant charging required 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): Additional refrigerant charging amount = prolonged length of liquid pipe × additional refrigerant charging amount per meter
- 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 the following sheet.

Additional refrigerant charging amount for R22, R407C, R410A and R134a

Outdoor unit throttle	Cooling only(g/m) Cooling and heating(g/m)	20	50	120	120	250	350
Outdoo	Cooling only(15	15	30	60	250	350
Piping size	Gas pipe	3/8" or 1/2"	5/8" or 3/4"	3/4" or 7/8"	1" or 1 1/4"	I	1
Pipinę	Liquid pipe	1/4"	1/4" or 3/8"	1/2"	5/8''	3/4"	7/8''

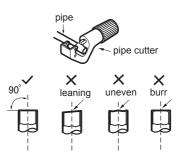
Pipe expanding method

Notice

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

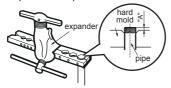
D: Put on the union nut

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

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• Expand the port with expander.



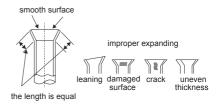
Notice

 "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 - 9.52(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.



Working temperature range

	Indoor side DB/WB(°C)	Outdoor side DB/WB(°C)
Maximum cooling	32/23	43/26
Maximum cooling	27/-	24/18

Notice

The operating temperature range (outdoor temperature) for cooling is .15 C ~43 C; Heating temperature range for the model without electric heating belt for chassis is .15 C ~24 C; Heating temperature range for the model with electric heating belt for chassis is .20 C ~24 C.



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