



Owner's Manual

Original Instructions

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

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

GWC18AGDXF-D3NTA1F GWC24AGEXF-D3NTA1A GWC24AGEXF-D3NTA1B GWC30AGEXH-D3NTA1A GWH18AGDXF-D3NTA1F GWH18AGDXF-D3NTA1G GWH24AGEXF-D3NTA1A GWH24AGEXF-D3NTA1B GWH30AGEXH-D3NTA1E

Explanation of Symbols

AWARNING

This symbol indicates the possibility of death or serious injury.

ACAUTION

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

NOTICE

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;
- After verification, the defects are due to improper operation during transportation of product;
- 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.

WARNING

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.

CAUTION

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.

MARNING

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.

CAUTION

Operation and Maintenance

- Do not spill water on the remote controller, otherwise the remote controller may be broken.
- Do not use fire or hair dryer to dry the filter to avoid deformation or fire hazard.
- Do not block air outlet or air inlet. It may cause malfunction.
- Do not step on top panel of outdoor unit, or put heavy objects. It may cause damage or personal injury.
- 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 breaker trips off

frequently.

- Air conditioner gives off burning smell.
- Indoor unit is leaking.

Clean and maintenance

MARNING =

- 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.

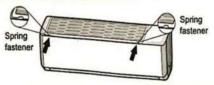
Clean filter

1. Remove filter

Press the spring fasteners at both sides in the direction indicated by the arrows.

Meanwhile, lift up the filter so that it is separated from the fasteners.

Pull the filter forward and remove it.



2. Clean filter

Use clear water to wash it or dust catcher to clean it. If the filter is very dirty (such as grease), use warm water (45°C) dissolved with neutral detergent to clean it, and then put it at the shady place to dry it.





3. Install filter

After cleaning, reinstall the filter in reverse order. Push it along the guide rails at both sides and then press the left and right edges of the filter. Refit the filter in the direction indicated by the arrows.



- 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.
- 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.
- Check whether mounting bracket for outdo or 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.

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
	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.

NOTE

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.

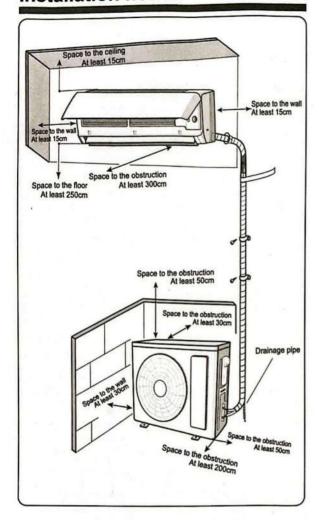
Phenomenon	Check items	Solution
	Whether it's interfered severely (such as static electricity, stable voltage?)	Pull out the plug. Reinsert the plug after about 3min, and then turn on the unit again
	Whether remote co- ntroller is within the signal receiving range?	Signal receiving range is 8m.
Indoor 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 indoo 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 replace them.
	No display when operating remote controller?	Check whether remote controller appears to be damaged. If yes replace it.
CULLA TO	Fluorescent lamp in room?	Take the remote con- troller close to indoor unit. Turn off the fluo- rescent lamp and ther 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 temperature?	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.
gilland 183 australia	Power failure?	Wait until power recovery.
- 0. 3	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 malfunction?	Ask professional to replace it.
i politic	Unit has restarted immediately after stopping operation?	Wait for 3min, and then turn on the unit again.
a registada Negari	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 humidity 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 be adjusted	Your required temperature exceeds the set temperature range?	Set temperature range: 16 C ~30 C.
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 temperature.
Air guide louver can't be closed normally	Whether the air guide louver has been adjusted?	Disconnect the power for 3s and then connect the power; if the problem still exits, disconnect the power, reinstall the air guide louver (install the upper air guide louver and then install the lower air guide louver) and then connect the power.

WARNING =

- 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.

WARNING :

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

MARNING =

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 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.

Tools for installation

- 1 Level meter
- Open-end wrench
- 12 Universal meter
- 2 Screw driver
- 3 Pipe cutter
- Inner hexagor spanner

- 3 Impact drill
 Drill head
- Leakage detector
 Vacuum pump
 - Measuring tape
- 6 Pipe expander
- 6 Torque wrench 1 Pressure meter

NOTICE

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

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:

- The place with strong heat sources, vapors, flammable or explosive gas, or volatile objects spread in the air.
- 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

- 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.
- The location should be able to withstand the weight of indoor unit and won't increase noise and vibration.
- The appliance must be installed 2.5m above floor.
- 7.Don't install the indoor unit right above the electric appliance.
- Please try your best to keep way from fluorescent lamp.

Outdoor unit

- Select a location where the noise and outflow air emitted by the outdoor unit will not affect neighborhood.
- The location should be well ventilated and dry, in which the outdoor unit won't be exposed directly to sunlight or strong wind.
- The location should be able to withstand the weight of outdoor unit.
- Make sure that the installation follows the requirement of installation dimension diagram.
- 5.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.

Safety precaution

- Must follow the electric safety regulations when installing the unit.
- According to the local safety regulations, use qualified power supply circuit and air switch.

Requirements for electric connection

- 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.
- 5.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.
- 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.
- 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.

Grounding requirement

- 1.The air conditioner is the first class electric appliance. It must be properly grounded with specialized grounding device by a professional. Please make sure it is always grounded effectively, otherwise it may cause electric shock.
- The yellow-green wire in air conditioner is grounding wire, which can't be used for other purposes.
- 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.

Air switch capacity

Including an air switch 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. (Caution: please do not use the fuse only for protecting the circuit)

Air-conditioner	Air switch capacity
18K、24K	25A
30K	32A

Installation of indoor unit

Step 1:

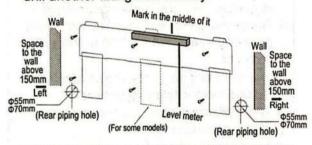
Choose installation location

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.
- 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

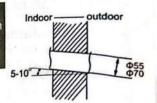
 Choose the position of piping hole according to the direction of outlet pipe. The position of piping hole should be a little lower than the wall-mounted frame, shown as below.

NOTE

- 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.
- 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°.

NOTE

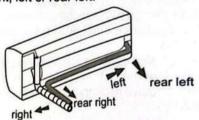
 Pay attention to dust prevention and take relevant safety measures when opening the hole.



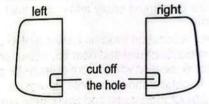
Step 4:

Outlet pipe

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



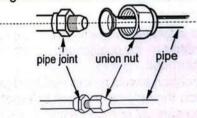
When select leading out the pipe from left or right, please cut off the corresponding hole on the bottom case.



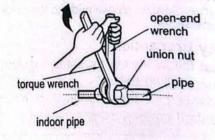
Step 5:

Connect the pipe of indoor unit

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

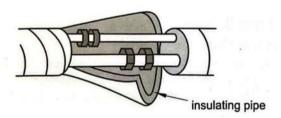


 Adjust the torque force by referring to the following sheet. Place the open-end wrench on the pipe joint and place the torque wrench on the union nut. Tighten the union nut with torque wrench.



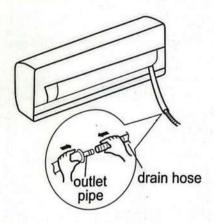
Hex nut diameter	Tightening torque (N·m)
1/4"	15~20
3/8"	30~40
1/2"	45~55
5/8"	60~65
3/4"	70~75

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

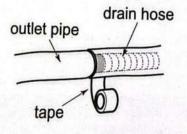


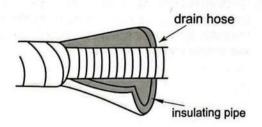
Step 6: Install drain hose

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



2. Bind the joint with tape ·





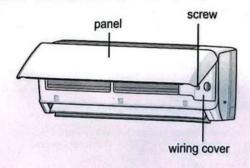
NOTE

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

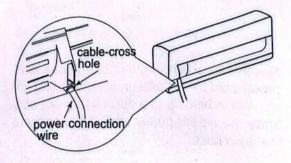
Step 7: Connect wire of indoor unit

NOTICE

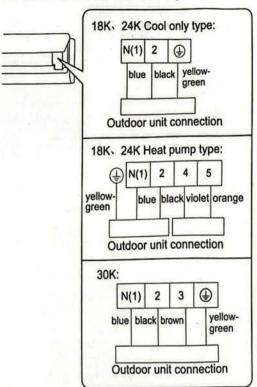
- All wires of indoor unit and outdoor unit should be connected by a professional.
- If the length of power connection wire is insufficient, please contact the supplier for a new one. Avoid extending the wire by yourself.
- For the air conditioner with plug, the plug should be reachable after finishing 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.
- 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.



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.

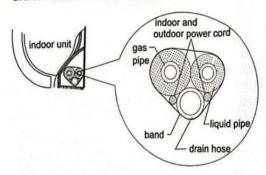


NOTICE

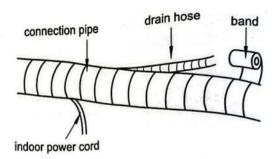
- The wiring board is for reference only, please refer to the actual one.
- 4. Put wiring cover back and then tighten the screw.
- 5. Close the panel.

Step 8: Bind up pipe

 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.
- The liquid pipe and gas pipe should be bound separately at the end.

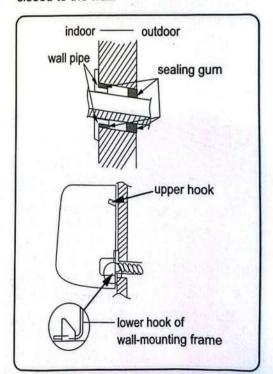
NOTICE

- 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.
- 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.
- Check if the indoor unit is installed firmly and closed to the wall.



NOTICE

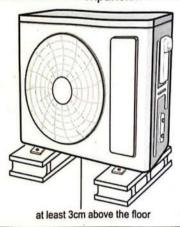
 Do not bend the drain hose too excessively in order to prevent blocking.

Installation of outdoor unit

Step 1:

Fix the support of outdoor unit (select it according to the actual installation situation)

- Select installation location according to the house structure.
- Fix the support of outdoor unit on the selected location with expansion screws.



NOTICE

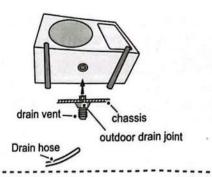
- Take sufficient protective measures when installing the outdoor unit.
- Make sure the support can withstand at least four times of the unit weight.
- The outdoor unit should be installed at least 3cm above the floor in order to install drain joint. (for the model with heating tube, the installation height should be no less than 20cm.)
- For the unit with cooling capacity of 2300W~5000W, 6 expansion screws are needed; for the unit with cooling capacity of 6000W~8000W, 8 expansion screws are needed; for the unit with cooling capacity of 10000W~16000W, 10 expansion screws are needed.

Step 2: Install drain joint (only for some models)

- Connect the outdoor drain joint into the hole on the chassis, as shown in the picture below.
- 2. Connect the drain hose into the drain vent.

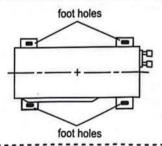
NOTICE

 As for the shape of drainage joint, please refer to the current product. Do not install the drainage joint in the severe cold area. Otherwise, it will be frosted and then cause malfunction.



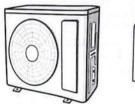
Step 3: Fix outdoor unit

- 1. Place the outdoor unit on the support.
- 2. Fix the foot holes of outdoor unit with bolts.



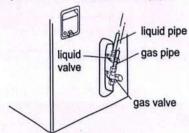
Step 4: Connect indoor and outdoor pipes

 Remove the screw on the right handle of outdoor unit and then remove the handle.

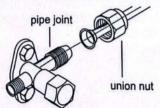




Remove the screw cap of valve and aim the pipe joint at the bellmouth of pipe.



3. Pretighten the union nut with hand.



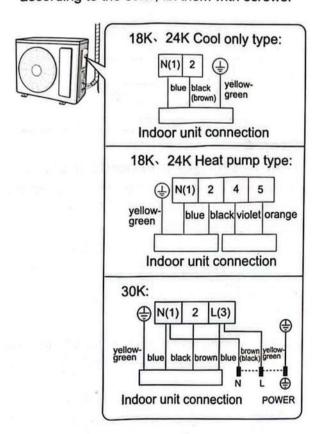
Tighten the union nut with torque wrench by referring to the sheet below.

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

Step 5:

Connect outdoor electric wire

 Remove the wire clip; connect the power connection wire and signal control wire (only for cooling and heating unit) to the wiring terminal according to the color; fix them with screws.



NOTICE

- The wiring board is for reference only, please refer to the actual one.
- Fix the power connection wire and signal control wire with wire clip (only for cooling and heating unit).

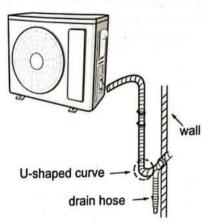
NOTICE

- After tighten the screw, pull the power cord slightly to check if it is firm.
- Never cut the power connection wire to prolong or shorten the distance.

Step 6:

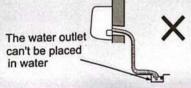
Neaten the pipes

- The pipes should be placed along the wall, bent reasonably and hidden possibly. Min. semidiameter of bending the pipe is 10cm.
- If the outdoor unit is higher than the wall hole, you must set a U-shaped curve in the pipe before pipe goes into the room, in order to prevent rain from getting into the room.

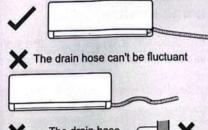


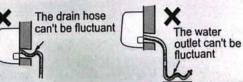
The through-wall height of drain hose should not be higher than the outlet pipe hole of indoor unit. the drain hose can't raise upwards. where the drain hose can't raise upwards.

The water outlet can't be placed in water in order to drain smoothly.



Slant the drain hose slightly downwards.
 The drain hose can't be curved, raised and fluctuant, etc.

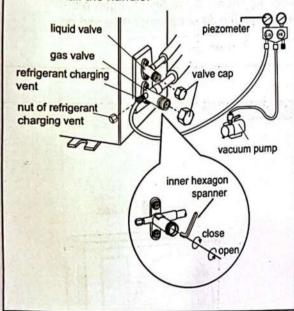




Test and operation

■ Use vacuum pump

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



Leakage detection

- 1. With leakage detector:
 - Check if there is leakage with leakage detector.
- 2. With soap water:

If leakage detector is not available, please use soap water for leakage detection. Apply soap water at the suspected position and keep the soap water for more than 3min. If there are air bubbles coming out of this position, there's a leakage.

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 o emit noise.
Have you done the refrigerant 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 of 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 of 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

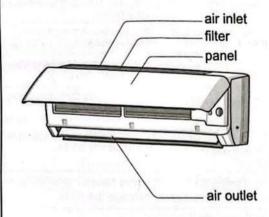
1. Preparation of test operation

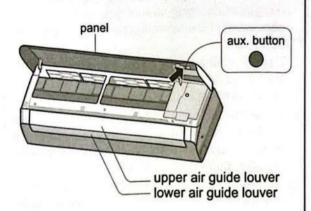
- . The client approves the air conditioner.
- Specify the important notes for air conditioner to the client.

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.

Indoor Unit





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.

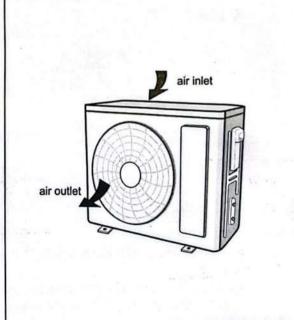
Display

Temp. indicator	26
Power indicator	U .

NOTE

- 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.

Outdoor Unit

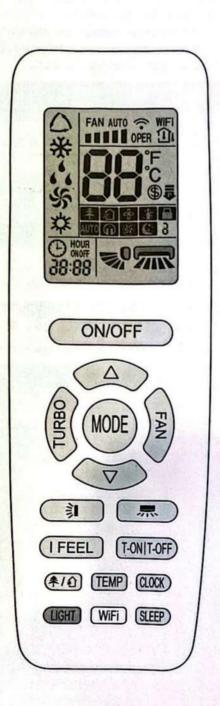


NOTE

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

Buttons on remote controller

Introduction for icons on display screen



331	*	I feel
	FAN AUTO	Set fan speed
12	\$	Turbo mode
	•	Send signal
ale l	0	Auto mode
Operation mode	*	Cool mode
ion	6.	Dry mode.
erat	55	Fan mode
o	*	Heat mode
	G 9	Sleep mode
100	\$	8°C heating function
	自	Power limiting operation
	*	Health mode
	£	Scavenging function
	8	X-FAN function
	120	☐ Set temp.
	Temp.	্র Indoor ambient temp.
dis	play type	Outdoor ambient temp.
	0	Clock
lgi	88	Set temperature
	WIFI	WiFi function
THE STATE OF	88:88	Set time
PRI	ONOFF	TIMER ON / TIMER OFF
	氚	Left & right swing
	2 0	Up & down swing
	•	Child lock
	ନ	Quiet

Introduction for buttons on remote controller

NOTE

- 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.
- After putting through the power, the air conditioner will give out a sound. Power indicator "U" is ON. 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 signa has been sent to the air conditioner.
- As for the models with functions of WiFi or wired controller, the indoor unit must has been controlled by standard remote controller under auto mode first, and then the function of adjustable temperature under auto mode can be realized by APP or the wired controller.
- This remote controller can adjust the temperature under auto mode. When matching with the unit which is without the function of adjustable temperature under auto mode, the set temperature under auto mode may be invalid, or the displayed set temperature on the unit is not same as that on the remote controller under auto mode.

ON/OFF

Press this button to turn on the unit. Press this button again to turn off the unit.



Press this button to select your required operation mode.

- When selecting auto mode, air conditioner will operate automatically according to ex-factory setting. Press "FAN" button can adjust fan speed. Press " " / " ") " button can adjust fan blowing angle.
- After selecting cool mode, air conditioner will operate under cool mode. Press "△" or "▽" button to adjust set temperature. Press "FAN" button to adjust fan speed. Press " ̄¬" / "⇒" button to adjust fan blowing angle.
- When selecting dry mode, the air conditioner operates at low speed under dry mode. Under dry mode, fan speed can't be adjusted. Press "
 " / "
 " button to adjust fan blowing angle."
- When selecting fan mode, the air conditioner will only blow fan, no cooling and no heating. All indicators are OFF. 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 " ≅" / "३| " 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 € (61-86°F);
- Under auto mode, temperature can be displayed;
 Under auto mode, set temperature can be adjusted.
- This mode indicator is not available for some models.



This button is used for setting Fan Speed in the sequence that goes from AUTO, (\mathbf{Q}) , \mathbf{d} , \mathbf{d}

. , . , to . , then back to Auto.

NOTE

- Under AUTO speed, air conditioner will select proper fan speed automatically according to factory default setting.
- . It's low fan speed under dry mode.
- X-FAN function: Holding fan speed button for 2s in cool or dry mode, the icon " " is displayed and the indoor fan will continue operation for a few 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 a few minutes at low speed. In this period, hold fan speed button for 2s 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.



Under COOL or HEAT mode, press this button to

turn to quick COOL or quick HEAT mode. " § " icon is displayed on remote controller. Press this button again to exit turbo function and " § " icon will disappear. If start this function, the unit will run at super-high fan speed to cool or heat quickly so that the ambient temperature approaches the preset temperature as soon as possible.

$\Delta I \nabla$

- Press "△" or "▽" button once increase or decrease set temperature 1 °C (°F). 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.
- When setting T-ON, T-OFF or CLOCK, press "△" or "▽" button to adjust time. (Refer to CLOCK, T-ON, T-OFF buttons)



Press this button can select left & right swing angle. Fan blow angle can be selected circularly as below:

NOTE

- Press this button continuously more than 2s, the main unit will swing back and forth from left to right, and then loosen the button, the unit will stop swinging and present position of guide louver will be kept immediately.
- Under left and right swing mode, when the status is switched from off to , if press this button again 2s later, , status will switch to off status directly; if press this button again within 2s, the change of swing status will also depend on the circulation sequence stated above.
- The function is only available for some models.



Press this button can select up & down swing angle. Fan blow angle can be selected circularly as below:

$$0 \longrightarrow 0 \longrightarrow 0 \longrightarrow 0 \longrightarrow 0$$
no display $0 \longrightarrow 0 \longrightarrow 0 \longrightarrow 0$
(horizontal louvers stops at current position)

 When selecting "=0", air conditioner is blowing fan automatically. Horizontal louver will automat-

- ically swing up & down at maximum angle.
- When selecting "-0, 0, 0, 0, 0, air conditioner is blowing fan at fixed position. Horizontal louver will stop at the fixed position.
- Hold "=0"button above 2s to set your required swing angle. When reaching your required angle, release the button.

NOTE

- "=0 , =0 , =0" may not be available. When air conditioner receives this signal, the air conditioner will blow fan automatically.
- Press this button continuously for more than 2s, the main unit will swing back and forth from up to down, and then loosen the button, the unit present position of guide louver will be kept immediately.
- Under up and down swing mode, when the status is switched from off to \$0, if press this button again 2s later, \$0 status will switch to off status directly; if press this button again within 2s, the change of swing status will also depend on the circulation sequence stated above.

T-ON T-OFF

- T-ON button
 - "T-ON" button can set the time for timer on. After pressing this button, " ⊕ " 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. "⊕" icon resumes displaying. Cancel T-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, " ① " 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 quickly until reaching your required time. Press "T-OFF" word "OFF" will stop blinking. " ① " 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.

IFEEL

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 cancel 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.

(CLOCK)

Press this button to set clock time. " \bigoplus " icon on remote controller will blink. Press " \triangle " or " ∇ " button within 5s to set clock time. Each pressing of " \triangle " or " ∇ " button, clock time will increas e or decrease 1 min. If hold " \triangle " or " ∇ " button , 2s later, time will change quickly. Release this button when reaching your required time. Press "CLOCK" button to confirm the time. " \bigoplus " icon stops blinking.

NOTE

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

SLEEP

• Press this button, can select Sleep 1 (1), Sleep 2 (2), Sleep 3 (2) and cancel the

Sleep, circulate between these, after electrified, Sleep Cancel is defaulted.

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

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

 Sleep 3-the sleep curve setting under Sleep mode by DIY;

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

(2) Adjust "△" and "▽" button, could change the corresponding setting temperature, after adjusted, press "TURBO" button for confirmation;

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

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

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

The user could accord to sleep curve setting method to inquire the presetting sleep curve, enter into user individuation sleep setting status, but do not change the temperature, press "TURBO" button directly for confirmation. Note: In the above presetting or enquiry procedure, if continuously within 10s, there is no button pressed, the sleep curve setting within 10s, there is no button pressed, the sleep curve setting status will be automatically quit and resume to display the original displaying. In the presetting or enquiry procedure, press "ON/OFF" button, "MODE" button, "SLEEP" button, the sleep curve setting or enquiry status will quit similarly.

WiFi

Press "WiFi" button to turn on WiFi function, "WiFi" icon will be displayed on the remote controller;
Hold "WiFi" button for 5s to turn off WiFi function

and " WiFi " icon will disappear.

Under off status, press "MODE" and " WiFi " buttons simultaneously for 1s, WiFi module will restore factory settings.

NOTE

. The function is only available for some models.



Press this button to turn on or turn off the health and scavenging functions in operation status. Press this button for the first time to start scavenging function; LCD displays " \(\delta\)". Press the button for the second time to start health and scavenging functions; LCD displays " \(\delta\)" and " \(\alpha\)". Press this button for the third time to quit health and scavenging functions simultaneously. Press the button for the fourth time to start health function; LCD display " \(\alpha\)". Press this button again to repeat the operation above.

NOTE

The function is only available for some models.

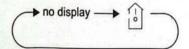
LIGHT

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

The display light is defaulted on after energization.

TEMP

Press this button, you can see indoor set temperature, indoor ambient temperature on indoor unit's display. The setting on remote controller is selected circularly as below:



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. Press "TURBO" button and the remote controller won't send signal.
- Sleep function and energy-saving function can't operate at the same time. If energy-saving function has been set under cool mode, press "SLEEP" button will cancel energy-saving function. If sleep function has been set under cool mode, start up the energy-saving function will cancel sleep function.

8°C heating function

Under heat mode, press "TEMP" and "CLOCK" buttons simultaneously to start up or turn off 8 °C heating function. When this function is started up, " ⑤" and "8°C" will be shown on remote controller, and the air conditioner keep the heating status at 8°C. Press "TEMP" and "CLOCK" buttons simultaneously again to exit 8°C heating function.

NOTE

- Under 8°C 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. Press "TURBO" button and the remote controller won't send signal.
- Sleep function and 8°C heating function can't operate
 at the same time. If 8°C heating function has been set
 under heat mode, press "SLEEP" button will cancel 8°C
 heating function. If sleep function has been set under
 heat mode, start up the 8°C heating function will
 cancel sleep function.
- Under °F temperature display, the remote controller will display 46°F heating.

Child lock function

Press "△" and "▽" simultaneously to turn on or turn off child lock function. When child lock function is on, " ➡" icon is displayed on remote controller. If you operate the remote controller, the " ➡" icon will blink three times without sending signal to the unit.

Temperature display switchover function

Under OFF status, press "

" and "MODE" buttons simultaneously to switch temperature display between °C and °F.

Auto clean function

Under unit off status, hold "MODE" and "FAN" buttons simultaneously for 5s to turn on or turn off the auto clean function. When the auto clean function is turned on, indoor unit displays "CL". During the auto clean process of evaporator, the unit will perform fast cooling or fast heating. There may be some noise, which is the sound of flowing liquid or thermal expansion or cold shrinkage. The air conditioner may blow cool or warm air, which is a normal phenomenon. During cleaning process, please make sure the room is well ventilated to avoid affecting the comfort.

NOTE

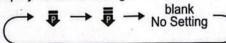
- The auto clean function can only work under normal ambient temperature. If the room is dusty, clean it once a month; if not, clean it once every three months. After the auto clean function is turned on, you can leave the room. When auto clean is finished, the air conditioner will enter standby status.
- This function is only available for some models.

function

Press "MODE" and "SLEEP" buttons simultaneously to start ₱ function。

function is for limiting power of the whole unit.

Press this button, the remote controller will circularly display as the following:



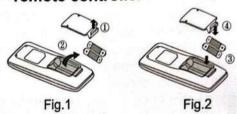
- Maximum power limited under the mode is lower than that of mode.
- If you want to cancel the power limiting function, press the button till the icon in remote controller is not displayed.

- When the remote controller is turned off, power limiting function is cancelled. If you want to activatethe function, please repress this button.
- If the current power is lower than the maximum power of mode, then the power will not be limited after entering into such mode.
- For the model with one outdoor unit and two indoor units, if any one of indoor units enters into power limiting function, the outdoor unit will enter into the set limiting power mode of indoor unit; when two indoor units enter into power limiting mode, then the power of outdoor unit will be limited according to the lower power of the two indoor units.

NOTE

• This function is only available for some models.

Replacement of batteries in remote controller



- Lift the cover along the direction of arrow (as shown in Fig 1①).
- Take out the original batteries (as shown in Fig 12).
- Place two 7# (AAA 1.5V) dry batteries, and make sure the position of " + " polar and " " polar is correct (as shown in Fig 2 ③).
- Reinstall the cover (as shown in Fig 2 4).

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.

Child lock function

Press "△" and "▽" simultaneously to turn on or turn off child lock function. When child lock function is on, " ➡" icon is displayed on remote controller. If you operate the remote controller, the " ➡" icon will blink three times without sending signal to the unit.

Temperature display switchover function

Under OFF status, press "

" and "MODE" buttons simultaneously to switch temperature display between °C and °F.

Auto clean function

Under unit off status, hold "MODE" and "FAN" buttons simultaneously for 5s to turn on or turn off the auto clean function. When the auto clean function is turned on, indoor unit displays "CL". During the auto clean process of evaporator, the unit will perform fast cooling or fast heating. There may be some noise, which is the sound of flowing liquid or thermal expansion or cold shrinkage. The air conditioner may blow cool or warm air, which is a normal phenomenon. During cleaning process, please make sure the room is well ventilated to avoid affecting the comfort.

NOTE

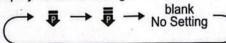
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Press this button, the remote controller will circularly display as the following:



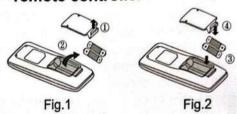
- Maximum power limited under the mode is lower than that of mode.
- If you want to cancel the power limiting function, press the button till the icon in remote controller is not displayed.

- When the remote controller is turned off, power limiting function is cancelled. If you want to activatethe function, please repress this button.
- If the current power is lower than the maximum power of mode, then the power will not be limited after entering into such mode.
- For the model with one outdoor unit and two indoor units, if any one of indoor units enters into power limiting function, the outdoor unit will enter into the set limiting power mode of indoor unit; when two indoor units enter into power limiting mode, then the power of outdoor unit will be limited according to the lower power of the two indoor units.

NOTE

• This function is only available for some models.

Replacement of batteries in remote controller



- Lift the cover along the direction of arrow (as shown in Fig 1①).
- Take out the original batteries (as shown in Fig 12).
- Place two 7# (AAA 1.5V) dry batteries, and make sure the position of " + " polar and " " polar is correct (as shown in Fig 2 ③).
- Reinstall the cover (as shown in Fig 2 4).

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.

Configuration of connection pipe

- 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

Cooling capacity	Max. length of connection pipe(m)
5000Btu/h (1465W)	15
7000Btu/h (2051W)	15
9000Btu/h (2637W)	15
12000Btu/h (3516W)	20
18000Btu/h (5274W)	25
24000Btu/h (7032W)	25
28000Btu/h (8204W)	30
36000Btu/h (10548W)	30
42000Btu/h (12306W)	30
48000Btu/h (14064W)	30

- 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

Piping size	g size	Outdoor unit throttle	it throttle
Liquid pipe	Gas pipe	Cooling only(g/m)	Cooling and heating(g/m)
1/4"	3/8" or 1/2"	15	20
1/4" or 3/8"	5/8" or 3/4"	15	20
1/2"	3/4" or 7/8"	30	120
5/8"	1" or 1 1/4"	09	120
3/4"		250	250
18/1		350	350
			A STATE OF TAXABLE PARTY AND ADDRESS OF TAXABLE PARTY.

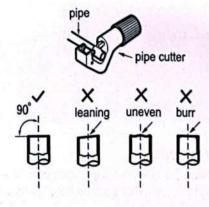
Pipe expanding method

NOTICE

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

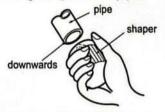
A: Cut the pipe

- 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

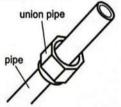
· Remove the burrs with shaper and prevent the burrs from getting into the pipe.



C: Put on suitable insulating pipe

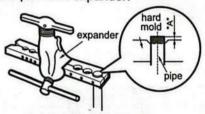
D: Put on the union nut

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



E: Expand the port

· Expand the port with expander.



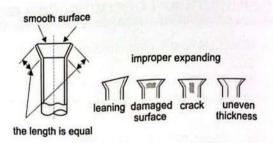
NOTICE

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

Outer diameter	A(m	m)
(mm)	Max	Min
Ф6 - 6.35(1/4")	1.3	0.7
Ф9 - 9.52(3/8")	1.6	1.0
Φ12-12.7(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	52/31
Maximum heating	27/-	24/18

NOTE

 The operating temperature range (outdoor temperature) for cooling only unit is 18°C~52°C; for heat pump unit is -7°C~52°C.

Models and specifications

		The second secon		
Model	GWC18AGDXF-D3NTA1F	GWH18AGDXF-D3NTA1F	GWC24AGEXF-D3NTA1A	GWH24AGEXF-D3NTA1A
Function	cooling	cooling and heating	cooling	cooling and heating
Rated voltage(V)	230V~	230V~	230V~	230V~
Rated frequency	60Hz	60Hz	60Hz	60Hz
Net weight(kg)	14/45	14/48	16.5/46	16.5/49.5
Rated Current(A)	12	12	14.7	12.4
Refrigerant volume(kg)	R410A 1.10	R410A 1.45	R410A 1.25	R410A 1.90
T1 Cooling Capacity (Btu/h)	18500	18500	22100	22000
T1 Cooling Power Input(W)	1492	1492	1818	1818
T1 Current Input(A)	6.64	6.64	8	8.00
T1 EER(Btu/h)/W	12.40	12.40	12.15	12.10
T3 Cooling Capacity (Btu/h)	15900	15900	19600	19200
T3 Cooling Power Input(W)	1802	1802	2240	2183
T3 Current Input(A)	7.99	7.99	9.6	9.7
T3 EER(Btu/h)/W	8.80	8.80	8.75	8.80
H1 Heating Capacity(W)		5300		6450
H1 Heating Power Input(W)		1472		1633
H1 Current Input(A)		6.53	· · · · · · · · · · · · · · · · · · ·	7.1
H1 COP(W/W)		3.60		3.95

Models and specifications

Model	GWC24AGEXF-D3NTA1B	GWC24AGEXF-D3NTA1B GWC30AGEXH-D3NTA1A GWH18AGDXF-D3NTA1G GWH24AGEXF-D3NTA1B GWH30AGEXH-D3NTA1E	GWH18AGDXF-D3NTA1G	GWH24AGEXF-D3NTA1B	GWH30AGEXH-D3NTA1E
Function	cooling	cooling	cooling and heating	cooling and heating	cooling and heating
Rated voltage(V)	230V~	230V~	230V~	230V~	230V~
Rated frequency	60Hz	2H09	60Hz	ZH09	60Hz
Net weight(kg)	16.5/45	15.5/63.5	14/48	16.5/49.5	15.5/63.5
Rated Current(A)	13	15.5	12	13.1	15.5
Refrigerant volume(kg)	R410A 1.10	R410A 2.05	R410A 1.45	R410A 1.75	R410A 2.05
T1 Cooling Capacity (Btu/h)	22100	28000	18500	22500	28000
T1 Cooling Power Input(W)	1818	2258	1492	1860	2258
T1 Current Input(A)	8	10	6.64	8.1	10
T1 EER(Btu/h)/W	12.15	12.40	12.40	12.10	12.40
T3 Cooling Capacity (Btu/h)	19100	24000	15900	20000	24000
T3 Cooling Power Input(W)	2194	2725	1802	2272	2725
T3 Current Input(A)	9.6	12	7.99	10.1	12
T3 EER(Btu/h)/W	8.70	8.80	8.80	8.80	8.80
H1 Heating Capacity(W)			5150	9200	8300
H1 Heating Power Input(W)			1472	1625	2274
H1 Current Input(A)		一年 一日	6.53	7.0	10.1
H1 COP(W/W)	•		3.50	4.00	3.65
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