

OWNER'S MANUAL

Split Air Conditioner



Thank you for choosing our product.

For proper operation, please read and keep this manual carefully.

MGW09KCH15S/I	MGW09KCH15S/O
MGW09KCO15S/I	MGW09KCO15S/O
MGW12KCH15S/I	MGW12KCH15S/O
MGW12KCO15S/I	MGW12KCO15S/O
MGW18KCH15S/I	MGW18KCH15S/O
MGW18KCO15S/I	MGW18KCO15S/O
MGW24KCH15S/I	MGW24KCH15S/O
MGW24KCO15S/I	MGW24KCO15S/O

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



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



Operation and Maintenance

- •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.
- •Children shall not play with the appliance.
- •Cleaning and user maintenance shall not be made by children without supervision.
- Do not connect air conditioner to multi-purpose socket.
 Otherwise, it may cause fire hazard.
- •Do disconnect power supply when cleaning air conditioner. Otherwise, it may cause electric shock.
- •If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Do not wash the air conditioner with water to avoid electric shock.
- •Do not spray water on indoor unit. It may cause electric shock or malfunction.
- •After removing the filter, do not touch fins to avoid injury.
- •Do not use fire or hair dryer to dry the filter to avoid deformation or fire hazard.

⚠ WARNING

- Maintenance must be performed by qualified professionals. Otherwise, it may cause personal injury or damage.
- Do not repair air conditioner by yourself. It may cause electric shock or damage. Please contact dealer when you need to repair air conditioner.
- Do not extend fingers or objects into air inlet or air outlet. It may cause personal injury or damage.
- Do not block air outlet or air inlet. It may cause malfunction.
- Do not spill water on the remote controller, otherwise the remote controller may be broken.
- When below phenomenon occurs, please turn off air conditioner and disconnect power immediately, and then contact the dealer or qualified professionals for service.
 - Power cord is overheating or damaged.
 - There's abnormal sound during operation.
 - Circuit break trips off frequently.
 - Air conditioner gives off burning smell.
 - Indoor unit is leaking.
- If the air conditioner operates under abnormal conditions, it may cause malfunction, electric shock or fire hazard.
- When turning on or turning off the unit by emergency operation switch, please press this switch with an insulating object other than metal.
- Do not step on top panel of outdoor unit, or put heavy objects. It may cause damage or personal injury.



Attachment

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

Precautions



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

Precautions



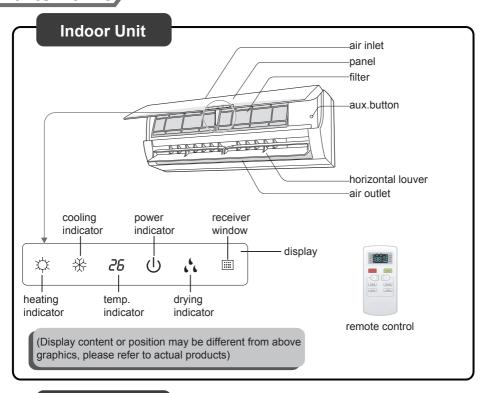
- For the air conditioner with plug, the plug should be reachable after finishing installation.
- For the air conditioner without plug, an circuit break must be installed in the line.
- If you need to relocate the air conditioner to another place, only the qualified person can perform the work.
 Otherwise, it may cause personal injury or damage.
- Select a location which is out of reach for children and far away from animals or plants. If it is unavoidable, please add the fence for safety purpose.
- The indoor unit should be installed close to the wall.
- Instructions for installation and use of this product are provided by the manufacturer.

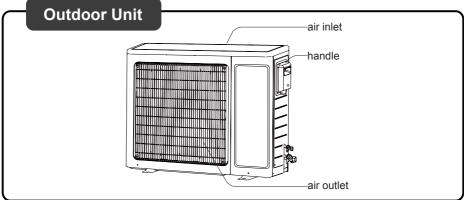
Working temperature range

	Indoor side DB/WB($^{\circ}$ C)	Outdoor side DB/WB(℃)
Maximum cooling	32/23	43/26
Maximum heating	27/-	24/18

NOTICE:

Parts name

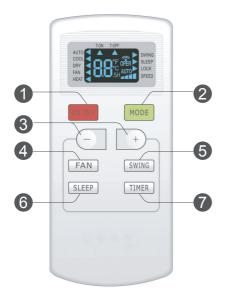




NOTICE:

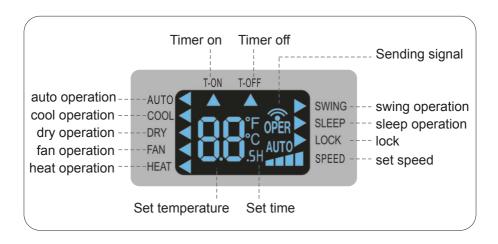
Actual product may be different from above graphics, please refer to actual products.

Buttons on remote controller



- 1 ON/OFF button
- 2 MODE button
- 3 +/- button
- 4 FAN button
- **5** SWING button
- 6 SLEEP button
- TIMER button

Introduction for icons on display screen



Introduction for buttons on remote controller

Note:

- 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.

1 ON/OFF button

Press this button to turn unit on/off.

2 MODE button

Pressing this button once can select your required mode circularly as below (the corresponding icon "◀" 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 adjust 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 adjust 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.)

3 + / - 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.
- When setting Timer On or Timer Off, press + or button to adjust the time. (See TIMER Button for setting details)

Introduction for buttons on remote controller

4 FAN button

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



Note:

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

5 SWING button

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

6 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.

7 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.

Introduction for buttons on remote controller

Note:

- 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, LOCK indicator on remote controller is ON. If you operate the remote controller, remote controller won't send signal.

Temperature display switchover function

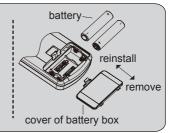
Under OFF status, press "-" button and "MODE" button simultaneously can switch between "C and "F.

Operation guide

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

Replacement of batteries in remote controller

- 1. 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 No.7 (AAA 1.5V) dry batteries and make sure the positions of + and- polar are correct.
- 3. Reinstall the cover of battery box.

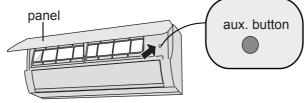


NOTICE

- 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.

Emergency operation

If remote controller is lost or damaged, please use auxiliary button to turn on or turn off the air conditioner. The operation in details are as below: As shown in the fig. Open panel, press aux. button to turn on or turn off the air conditioner. When the air conditioner is turned on, it will operate under auto mode.





Use insulated object to press the auto button

Clean and maintenance

⚠ WARNING

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

Clean surface of indoor unit

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

NOTICE:

Do not remove the panel when cleaning it.

Clean and maintenance

Clean filter



Open panel

Pull out the panel to a certain angle as shown in the fig.



3

Clean filter

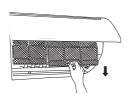
- Use dust catcher or water to clean the filter.
- When the filter is very dirty, use the water (below 45℃) to clean it, and then put it in a shady and cool place to dry.



2

Remove filter

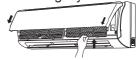
Remove the filter as indicated in the fig.





Install filter

Install the filter and then close the panel cover tightly.





WARNING

- The filter should be cleaned every three months. If there is much dust in the operation environment, clean frequency can be increased.
- After removing the filter, do not touch fins to avoid injury.
- Do not use fire or hair dryer to dry the filter to avoid deformation or fire hazard.

Clean and maintenance

NOTICE: Checking before use-season

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

NOTICE: Checking after use-season

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

Notice for recovery

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

Malfunction analysis

General phenomenon analysis

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

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

Malfunction analysis

Phenomenon	Check items	Solution
	Power failure?Is plug loose?	Wait until power recovery.Reinsert the plug.
	Circuit break trips off or fuse is burnt out?	Ask professional to replace circuit break or fuse.
Air condit-	Wiring has malfunction?	• Ask professional to replace it.
ioner 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 em- itted from indoor unit's air outlet	 Indoor temperature and humidity is high? Because indoor air rapidly. After a while temperature and humbe decrease and midisappear. 	
• Unit is operating under auto mode?		Temperature can't be adjusted under auto mode. Please switch the operation mode if you need to adjust temperature.
be adjusted	 Your required temperature exceeds the set temperature range? 	• Set temperature range: 16℃ ~30℃.
	Voltage is too low?	Wait until the voltage resumes normal.
Cooling (heating) effect is not good.	• Filter is dirty?	Clean the filter.
	Set temperature is in proper range?	Adjust temperature to proper range.
	Door and window are open?	Close door and window.

Malfunction analysis/

Phenomenon	Check items	Solution
Odours are emitted	Whether there's odour source, such as furniture and cigarette, etc.	 Eliminate the odour source. Clean the filter.
Air conditioner operates abnormally	Whether there's interference, such as thunder, wireless devices, etc.	Disconnect power, put back power, and then turn on the unit again.
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.

Malfunction analysis

Error Code

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



Above indicator diagram is only for reference. Please refer to actual product for the actual indicator and position.

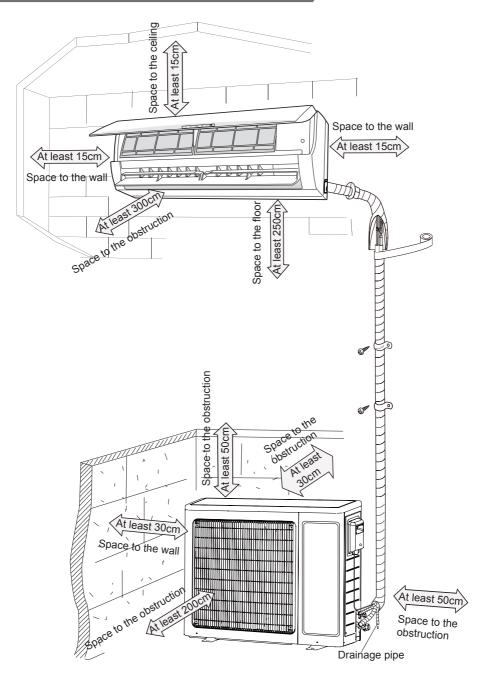
Error code	Troubleshooting
H1(Heating indicator ON 10s OFF 0.5s)	Means defrosting status. It's the normal phenomenon.
E5	It can be eliminated af ^t er restarting the unit. If not, please contact qualified professionals for service.
H6	It can be eliminated after restarting the unit. If not, please contact qualified professionals for service.
C5	Please contact qualified professionals for service.
F1	Please contact qualified professionals for service.
F2	Please contact qualified professionals for service.
E6	It can be eliminated after restarting the unit. If not, please contact qualified professionals for service.

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

MARNING

- When below phenomenon occurs, please turn off air conditioner and disconnect power immediately, and then contact the dealer or qualified professionals for service.
 - Power cord is overheating or damaged.
 - There's abnormal sound during operation.
 - Circuit break trips off frequently.
 - Air conditioner gives off burning smell.
 - Indoor unit is leaking.
- 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 dimension diagram



Tools for installation

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

Note:

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

Selection of installation location

Basic requirement

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

- 1. The place with strong heat sources. vapors, flammable or explosive gas, or volatile objects spread in the air.
- 2. The place with high-frequency devices (such as welding machine, medical equipment).
- 3. The place near coast area.
- 4. The place with oil or fumes in the air.
- 5. The place with sulfureted gas.
- 6. Other places with special circumstances.
- 7.Do not use the unit in the immediate 7. Don't install the indoor unit right above surroundings of a laundry a bath a shower or a swimming pool.

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.
- 3. Select a location which is convenient to connect the outdoor unit and near the power socket.
- 4. Select a location which is out of reach for children.
- 5. The location should be able to withstand the weight of indoor unit and won't increase noise and vibration.
- 6. The appliance must be installed 2.5m above floor.
- the electric appliance.
- 8. Please try your best to keep way from fluorescent lamp.

Outdoor unit

- 1. Select a location where the noise and outflow air emitted by the outdoor unit will not affect neighborhood.
- 2. The location should be well ventilated and dry, in which the outdoor unit won't be exposed directly to sunlight or strong wind.
- 3. The location should be able to withstand the weight of outdoor unit.
- 4. 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.

Requirements for electric connection

Safety precaution

- 1. Must follow the electric safety regulations when installing the unit.
- 2. According to the local safety regulations, use qualified power supply circuit and circuit break.
- Make sure the power supply matches with the requirement of air conditioner. Unstable power supply or incorrect wiring or malfunction. Please install proper power supply cables before using the air conditioner.
- 4. Properly connect the live wire, neutral wire and grounding wire of power socket.
- 5. Be sure to cut off the power supply before proceeding any work related to electricity and safety.
- 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.
- 9. The appliance shall be installed in accordance with national wiring regulations.
- 10.Installation must be performed in accordance with the requirement of NEC and CEC by authorized personnel only.

Grounding requirement

- 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.
- Including an circuit break with suitable capacity, please note the following table.
 Air switch should be included magnet buckle and heating buckle function, it can protect the circuit-short and overload. (Caution: please do not use the fuse only for protect the circuit)

Air-conditioner	Circuit break capacity
09K	10A
12K	16A
18K(cooling only model)	20A
18K(cooling and heating model)	25A
24K	25A

Step one: choosing installation location

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

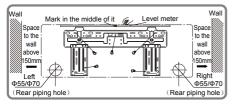
Step two: install wall-mounting frame

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

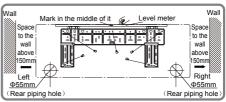
Step three: open piping hole

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.

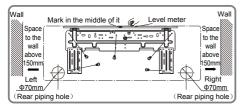
09、12K:



18K:



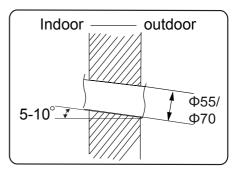
24K:



 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°.

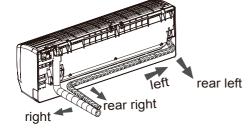
Note:

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

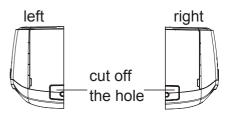


Step four: outlet pipe

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

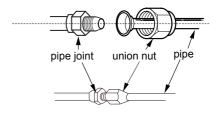


When select leading out the pipe from left or right, please cut off the corresponding hole on the bottom case.

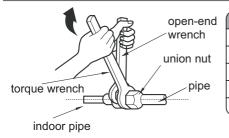


Step five: connect the pipe of indoor unit

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

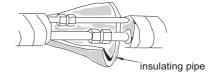


Adjust the torque force by referring to the following sheet. Place the open-end wrench on the pipe joint and place the torque wrench on the union nut. Tighten the union nut with torque wrench.



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

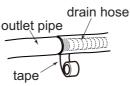
4. Wrap the indoor pipe and joint of connection pipe with insulating pipe, and then wrap it with tape.

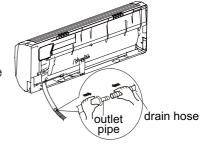


Step six: install drain hose

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

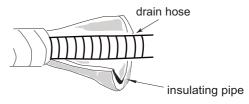
2. Bind the joint with tape.





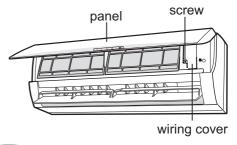
Note:

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

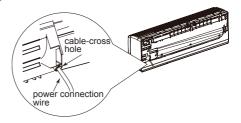


Step seven: connect wire of indoor unit

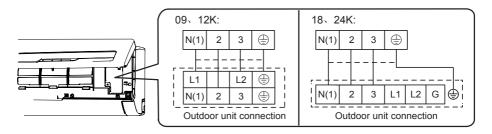
 Open the panel, remove the screw on the wiring cover and then take down the cover.



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



3. Remove the wire clip; connect the power connection wire to the wiring terminal according to the color; tighten the screw and then fix the power connection wire with wire clip.



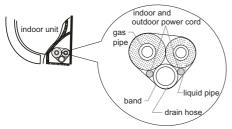
- 4. Put wiring cover back and then tighten the screw.
- 5. Close the panel.

Note:

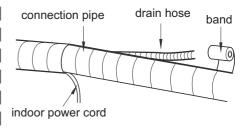
- All wires of indoor unit and outdoor unit should be connected by a professional.
- If the length of power connection wire is insufficient, please contact the supplier for a new one. Avoid extending the wire by yourself.
- For the air conditioner with plug, the plug should be reachable after finishing installation.
- For the air conditioner without plug, an circuit break must be installed in the line.
 The circuit break should be all-pole parting and the contact parting distance should be more than 3mm.

Step eight: 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.



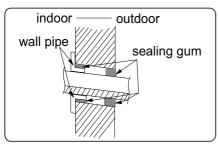
- 3. Bind them evenly.
- 4. The liquid pipe and gas pipe should be bound separately at the end.

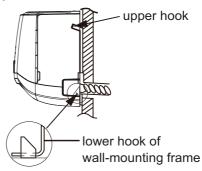
Note:

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

Step nine: hang the indoor unit

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





Note:

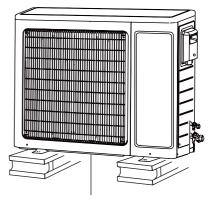
• Do not bend the drain hose too excessively in order to prevent blocking.

Step one: fix the support of outdoor unit (select it according to the actual installation situation)

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

Note:

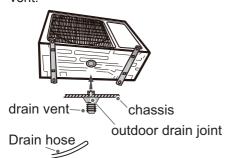
- Take sufficient protective measures when installing the outdoor unit.
- Make sure the support can withstand at least four times of the unit weight.
- The outdoor unit should be installed at least 3cm above the floor in order to install drain joint.
- For the unit with cooling capacity of 2300W ~5000W, 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.



at least 3cm above the floor

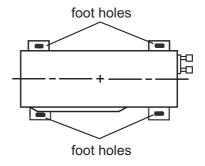
Step two: install drain joint (Only for cooling and heating unit)

- 1. 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.



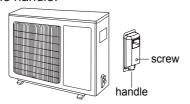
Step three: fix outdoor unit

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

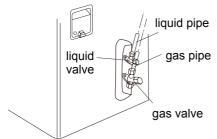


Step four: connect indoor and outdoor pipes

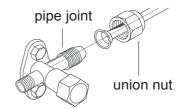
1. Remove the screw on the right handle of outdoor unit and then remove the handle.



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



3. Pretightening the union nut with hand.

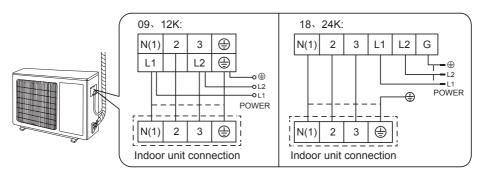


 Tighten the union nut with torque wrench by referring to the sheet below.

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

Step five: connect outdoor electric wire

1. Remove the wire clip; connect the power connection wire and signal control wire (only for Cool and heat type) to the wiring terminal according to the color; fix them with screws.



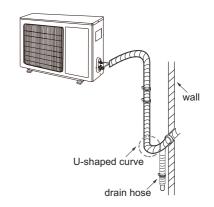
2. Fix the power connection wire and signal control wire with wire clip (only for cooling and heating unit).

Note:

- 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 six: neaten the pipes

- 1. 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.

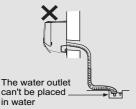


Note:

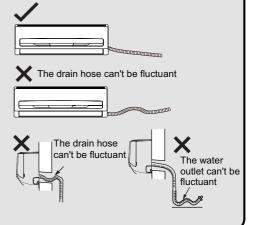
 The through-wal height of drain hose shouldn't be higher than the outlet pipe hole of indoor unit.



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



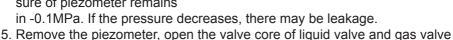
Slant the drain hose slightly downwards. The drain hose can't be curved, raised and fluctuant, etc.



Vacuum pumping

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



- completely with inner hexagon spanner.
- 6. Tighten the screw caps of valves and refrigerant charging vent.
- 7 Reinstall the handle

Leakage detection

- With leakage detector:
 Check if there is leakage with leakage detector.
- 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 or emit noise
Have you done the refrigerant leakage test?	It may cause insufficient cooling (heating) capacity.
Is heat insulation of pipeline sufficient?	It may cause condensation and water dripping.
Is water drained well?	It may cause condensation and water dripping.
Is the voltage of power supply according to the voltage marked on the nameplate?	It may cause malfunction or damaging the parts.
Is electric wiring and pipeline installed correctly?	It may cause malfunction or damaging the parts.
Is the unit grounded securely?	It may cause electric leakage.
Does the power cord follow the specification?	It may cause malfunction or damaging the parts.
Is there any obstruction in the air inlet and outlet?	It may cause insufficient cooling (heating) capacity.
The dust and sundries caused during installation are removed?	It may cause malfunction or damaging the parts.
The gas valve and liquid valve of connection pipe are open completely?	It may cause insufficient cooling (heating) capacity.

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.
- \bullet If the ambient temperature is lower than 16 $^\circ\!\mathbb{C}$, 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 and max. high difference.

Cooling capacity	Max length of connection pipe	Max height difference
5000Btu/h (1465W)	15	5
7000Btu/h (2051W)	15	5
9000Btu/h (2637W)	15	5
12000Btu/h (3516W)	20	10
18000Btu/h (5274W)	25	10

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

- 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.

Configuration of connection pipe

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

Diameter of co	ameter of connection pipe		or unit throttle
Liquid pipe(mm)	Gas pipe(mm)	Cooling only(g/m)	Cooling and heating(g/m)
Ф6	Ф9.52 ог Ф12	15	20
Ф6 ог Ф9.52	Ф16 ог Ф19	15	50
Ф12	Ф19 ог Ф22.2	30	120
Ф16	Ф25.4 ог Ф31.8	60	120
Ф19	-	250	250
Ф22.2	_	350	350

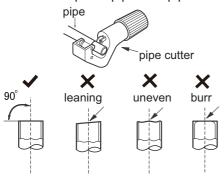
Pipe expanding method

Note:

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

A: Cut the pipe

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



B: Remove the burrs

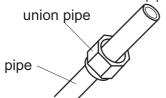
 Remove the burrs with shaper and prevent the burrs from getting into the pipe.



C: Put on suitable insulating pipe

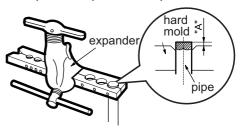
D: Put on the union nut

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



E: Expand the port

Expand the port with expander.



Note:

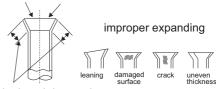
 "A" is different according to the diameter, please refer to the sheet below:

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

F: Inspection

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

smooth surface



the length is equal