

Operation of Smart Control (Smart Phone, Tablet PC)

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



How to reset the AC WiFi module:

Turn unit off with the remote controller and disconnect the power of AC. Then re-connect the power. 1 minute later, press “WiFi” and “Mode” buttons simultaneously. If the AC gives out a beep sound, it means the WiFi module is successfully reset. Attention: Operation of the buttons is only effective in 2 minutes.

Analysis on Common Network Setting Failure:

1. If short-distance control fails, please check the following items one by one!
 - Make sure AC is power connected;
 - Make sure AC's WiFi function is turned on as normal;
 - Make sure your phone's WiFi selects the corresponding AC;
 - Reset with the remote controller and then start setting again from step 3.

Kindly remind:

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

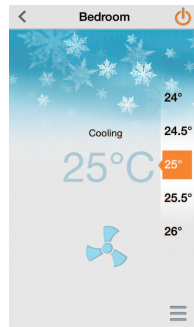
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Function Introduction on Main Interface

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



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



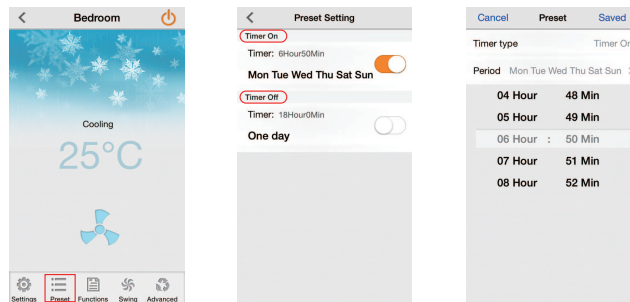
3. Fan Speed: It used for setting fan speed. Under cooling or heating mode, if the noise-customized function is turned on, adjust the fan speed and then the noise-customized function will be turned off automatically. Please refer to the part of remote controller for detailed operation.



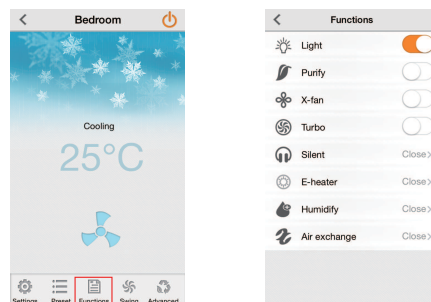
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Key Functions Instruction of Application Software

1. Preset: It's with Timer On and Timer Off function. User can set Timer On and Timer Off according to actual individual requirement.



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



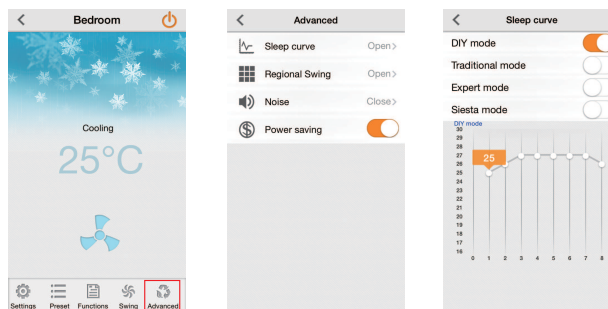
3. Swing: During up&down swing and left&right swing, it's the fixed angle swing when those two sliding blocks are combined together and full swing when they are separated. When setting up&down swing, the program will turn off regional swing function. However, no influence for regional swing when setting left&right swing.



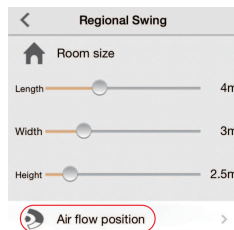
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4. Advanced: After entering advanced interface, you can set Sleep curve, Regional Swing, Noise and Power saving.

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



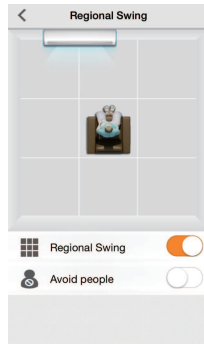
- Regional Swing: After entering Regional Swing, user can set it according to the room size. Press “Air flow position” button and the user can adjust the fan-blowing area through moving the icon of air conditioner left and right according to the actual installation position of the unit.



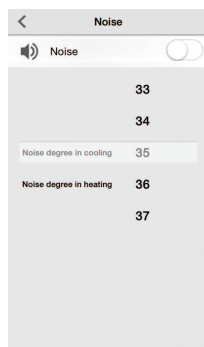
User can move the person icon among nine pane areas according to requirement to adjust the fan-blow area. The Regional Swing function can be turned off through up&down swing. The up&down swing in the Regional Swing is only valid under cooling and heating modes. The left&right swing area has relationship with the position of air conditioner set by mobile phone. The left&right swing position may be asymmetry, which is the normal phenomenon.

“Avoid people” function can be turned on or turned off according to user’s personal experience. There may be deviation because of the installation position of air conditioner and the setting of parameters, which is the normal phenomenon.

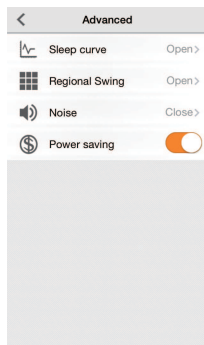
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- Noise: The noise-customized function for indoor unit can be adjusted according to the actual individual requirement. The detailed adjustment range is different for different models, which is decided by indoor unit.

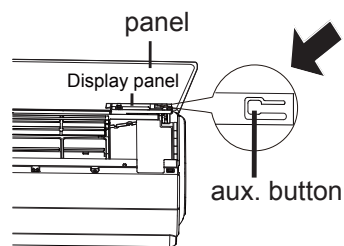


- Power saving: After energy saving navigation mode is turned on, the air conditioner will detect indoor temperature and outdoor temperature automatically. Meanwhile, the air conditioner will adjust frequency, fan speed and set temperature automatically according to the load status for saving energy.



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.



⚠ WARNING:
Use insulated object to press the auto button

Clean and maintenance

⚠ WARNING

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

Clean surface of indoor unit

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

NOTICE:

- Do not remove the panel when cleaning it.

Clean and maintenance

Clean filter

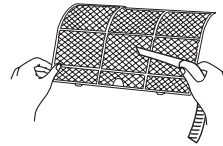
- 1 Open panel**
Open the panel into a certain angle (less than 60°, do not open the panel too forcibly) along the arrow direction from the two sides of panel.



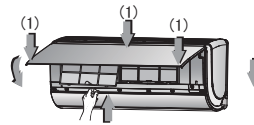
- 2 Remove filter**
Remove the filter as indicated in the fig.



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



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



! WARNING

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

Clean and maintenance

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 drainage pipe is damaged.

Checking after use-season

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

Notice for recovery

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

Malfuction 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
Indoor unit can't receive remote controller's signal or remote controller has no action.	<ul style="list-style-type: none"> • Whether it's interfered severely (such as static electricity, stable voltage)? 	<ul style="list-style-type: none"> • Pull out the plug. Reinsert the plug after about 3min, and then turn on the unit again.
	<ul style="list-style-type: none"> • Whether remote controller is within the signal receiving range? 	<ul style="list-style-type: none"> • Signal receiving range is 8m.
	<ul style="list-style-type: none"> • Whether there are obstacles? 	<ul style="list-style-type: none"> • Remove obstacles.
	<ul style="list-style-type: none"> • Whether remote controller is pointing at the receiving window? 	<ul style="list-style-type: none"> • Select proper angle and point the remote controller at the receiving window on indoor unit.
	<ul style="list-style-type: none"> • Is sensitivity of remote controller low; fuzzy display and no display? 	<ul style="list-style-type: none"> • Check the batteries. If the power of batteries is too low, please replace them.
	<ul style="list-style-type: none"> • No display when operating remote controller? 	<ul style="list-style-type: none"> • Check whether remote controller appears to be damaged. If yes, replace it.
	<ul style="list-style-type: none"> • Fluorescent lamp in room? 	<ul style="list-style-type: none"> • Take the remote controller close to indoor unit. • Turn off the fluorescent lamp and then try it again.
No air emitted from indoor unit	<ul style="list-style-type: none"> • Air inlet or air outlet of indoor unit is blocked? 	<ul style="list-style-type: none"> • Eliminate obstacles.
	<ul style="list-style-type: none"> • Under heating mode, indoor temperature is reached to set temperature? 	<ul style="list-style-type: none"> • After reaching to set temperature, indoor unit will stop blowing out air.
	<ul style="list-style-type: none"> • Heating mode is turned on just now? 	<ul style="list-style-type: none"> • In order to prevent blowing out cold air, indoor unit will be started after delaying for several minutes, which is a normal phenomenon.

Malfunction analysis

Phenomenon	Check items	Solution
Air conditioner can't operate	<ul style="list-style-type: none"> • Power failure? 	<ul style="list-style-type: none"> • Wait until power recovery.
	<ul style="list-style-type: none"> • Is plug loose? 	<ul style="list-style-type: none"> • Reinsert the plug.
	<ul style="list-style-type: none"> • Air switch trips off or fuse is burnt out? 	<ul style="list-style-type: none"> • Ask professional to replace air switch or fuse.
	<ul style="list-style-type: none"> • Wiring has malfunction? 	<ul style="list-style-type: none"> • Ask professional to replace it.
	<ul style="list-style-type: none"> • Unit has restarted immediately after stopping operation? 	<ul style="list-style-type: none"> • Wait for 3min, and then turn on the unit again.
	<ul style="list-style-type: none"> • Whether the function setting for remote controller is correct? 	<ul style="list-style-type: none"> • Reset the function.
Mist is emitted from indoor unit's air outlet	<ul style="list-style-type: none"> • Indoor temperature and humidity is high? 	<ul style="list-style-type: none"> • Because indoor air is cooled rapidly. After a while, indoor temperature and humidity will be decrease and mist will disappear.
Set temperature can't be adjusted	<ul style="list-style-type: none"> • Unit is operating under auto mode? 	<ul style="list-style-type: none"> • Temperature can't be adjusted under auto mode. Please switch the operation mode if you need to adjust temperature.
	<ul style="list-style-type: none"> • Your required temperature exceeds the set temperature range? 	<ul style="list-style-type: none"> • Set temperature range: 16°C ~30°C .
Cooling (heating) effect is not good.	<ul style="list-style-type: none"> • Voltage is too low? 	<ul style="list-style-type: none"> • Wait until the voltage resumes normal.
	<ul style="list-style-type: none"> • Filter is dirty? 	<ul style="list-style-type: none"> • Clean the filter.
	<ul style="list-style-type: none"> • Set temperature is in proper range? 	<ul style="list-style-type: none"> • Adjust temperature to proper range.
	<ul style="list-style-type: none"> • Door and window are open? 	<ul style="list-style-type: none"> • Close door and window.

Malfunction analysis

Phenomenon	Check items	Solution
Odours are emitted	<ul style="list-style-type: none"> • Whether there's odour source, such as furniture and cigarette, etc. 	<ul style="list-style-type: none"> • Eliminate the odour source. • Clean the filter.
Air conditioner operates normally suddenly	<ul style="list-style-type: none"> • Whether there's interference, such as thunder, wireless devices, etc. 	<ul style="list-style-type: none"> • Disconnect power, put back power, and then turn on the unit again.
Outdoor unit has vapor	<ul style="list-style-type: none"> • Heating mode is turned on? 	<ul style="list-style-type: none"> • During defrosting under heating mode, it may generate vapor, which is a normal phenomenon.
"Water flowing" noise	<ul style="list-style-type: none"> • Air conditioner is turned on or turned off just now? 	<ul style="list-style-type: none"> • The noise is the sound of refrigerant flowing inside the unit, which is a normal phenomenon.
Cracking noise	<ul style="list-style-type: none"> • Air conditioner is turned on or turned off just now? 	<ul style="list-style-type: none"> • This is the sound of friction caused by expansion and/or contraction of panel or other parts due to the change of temperature.

Malfunction analysis

Error Code

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

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

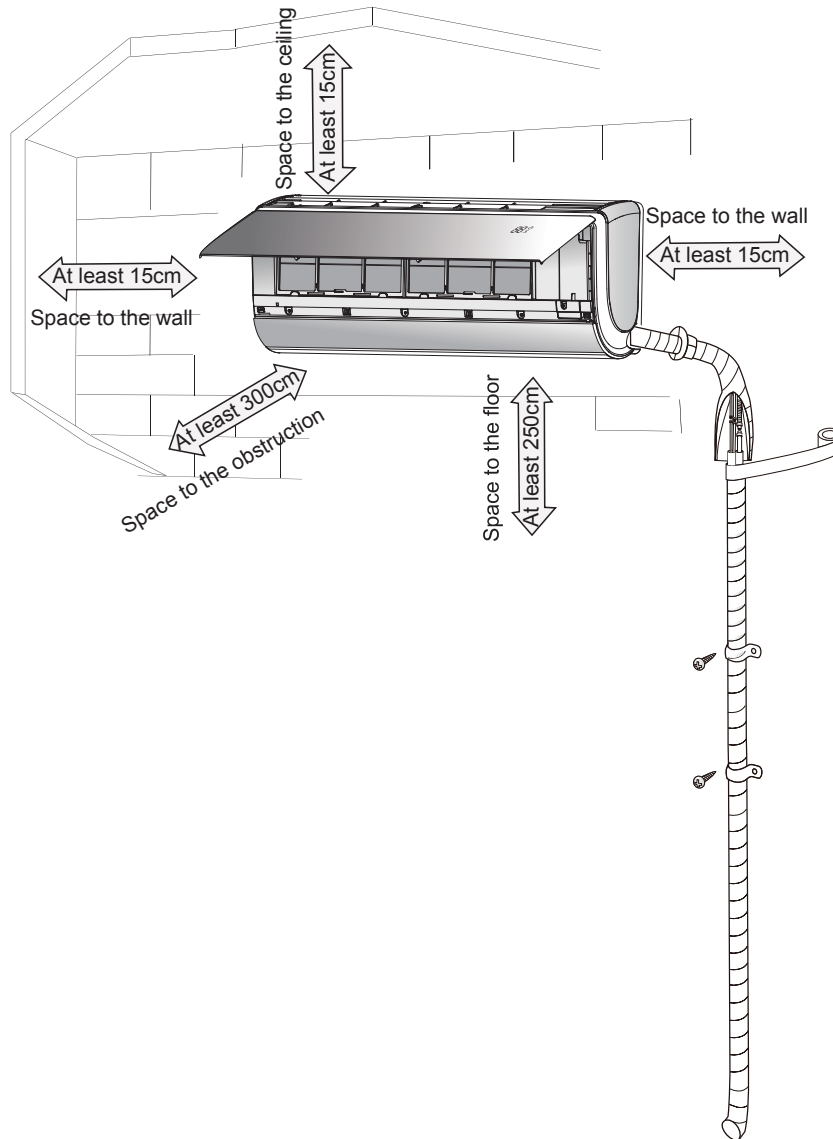
Note: If there're other error codes, please contact qualified professionals for service.



WARNING

- When 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 dimension diagram



Tools for installation

1 Level meter	2 Screw driver	3 Impact drill
4 Drill head	5 Pipe expander	6 Torque wrench
7 Open-end wrench	8 Pipe cutter	9 Leakage detector
10 Vacuum pump	11 Pressure 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	Indoor unit
<p>Installing the unit in the following places may cause malfunction. If it is unavoidable, please consult the local dealer:</p> <ol style="list-style-type: none"> 1. The place with strong heat sources, vapors, flammable or explosive gas, or volatile objects spread in the air. 2. The place with high-frequency devices (such as welding machine, medical equipment). 3. The place near coast area. 4. The place with oil or fumes in the air. 5. The place with sulfureted gas. 6. Other places with special circumstances. 7. The appliance shall not be installed in the laundry. 	<ol style="list-style-type: none"> 1. There should be no obstruction near air inlet and air outlet. 2. Select a location where the condensation water can be dispersed easily and won't affect other people. 3. Select a location which is convenient to connect the outdoor unit and near the power socket. 4. Select a location which is out of reach for children. 5. The location should be able to withstand the weight of indoor unit and won't increase noise and vibration. 6. The appliance must be installed 2.5m above floor. 7. Don't install the indoor unit right above the electric appliance. 8. Please try your best to keep way from fluorescent lamp.

Requirements for electric connection

Safety precaution

1. Must follow the electric safety regulations when installing the unit.
2. According to the local safety regulations, use qualified power supply circuit and air switch.
3. Make sure the power supply matches with the requirement of air conditioner. Unstable power supply or incorrect wiring or malfunction. Please install proper power supply cables before using the air conditioner.
4. Properly connect the live wire, neutral wire and grounding wire of power socket.
5. Be sure to cut off the power supply before proceeding any work related to electricity and safety.
6. Do not put through the power before finishing installation.
7. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
8. The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
9. The appliance shall be installed in accordance with national wiring regulations.

Grounding requirement

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

Installation of indoor unit

Step one: choosing installation location

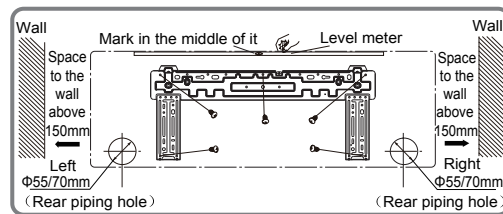
Recommend the installation location to the client and then confirm it with the client.

Step two: install wall-mounting frame

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

Step three: open piping hole

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

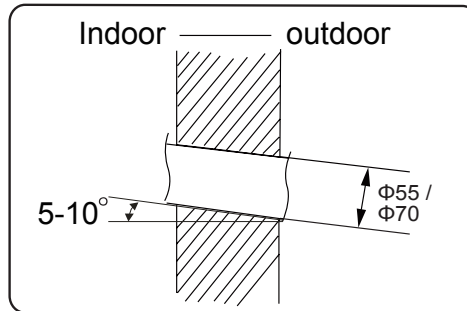


2. Open a piping hole with the diameter of $\Phi 55$ or $\Phi 70$ on the selected outlet pipe position. In order to drain smoothly, slant the piping hole on the wall slightly downward to the outdoor side with the gradient of $5-10^\circ$.

Installation of indoor unit

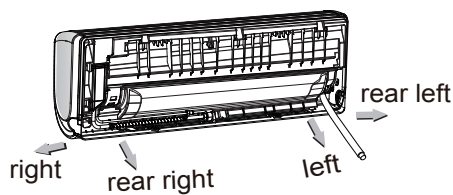
Note:

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

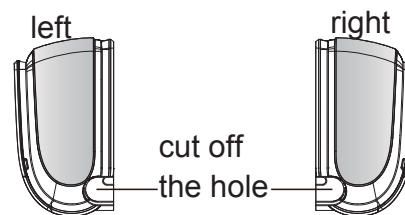


Step four: outlet pipe

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

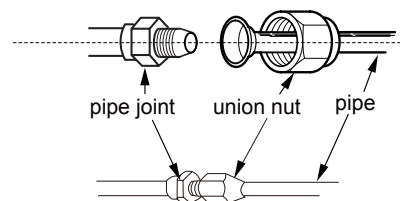


2. When select leading out the pipe from left or right, please cut off the corresponding hole on the bottom case.



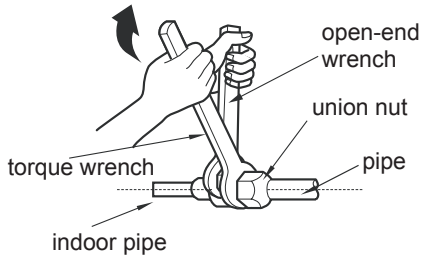
Step five: connect the pipe of indoor unit

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



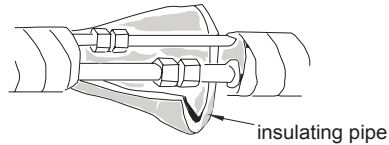
3. Adjust the torque force by referring to the following sheet. Place the open-end wrench on the pipe joint and place the torque wrench on the union nut. Tighten the union nut with torque wrench.

Installation of indoor unit



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

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

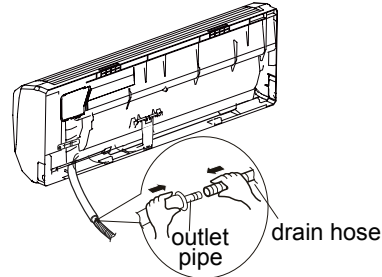
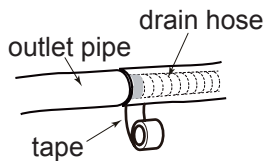


5. If a 18k indoor unit is to be connected with Free Match outdoor unit, a transitional pipe joint (provided) should be added at the pipe joint of indoor unit evaporator assy as the pipe joint of evaporator assy adopts pipe diameter of Φ16. Please refer to step 1-4 during installation.

Step six: install drain hose

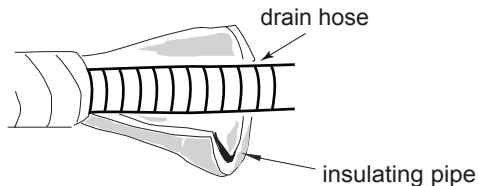
1. Connect the drain hose to the outlet pipe of indoor unit.

2. Bind the joint with tape.



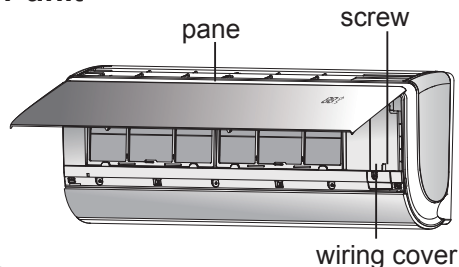
Note:

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



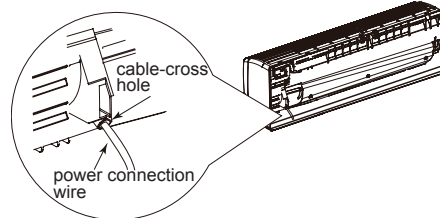
Step seven: connect wire of indoor unit

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

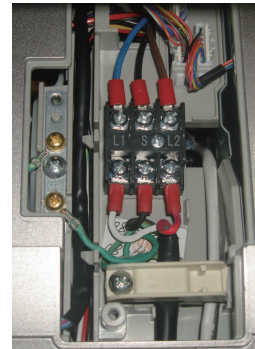
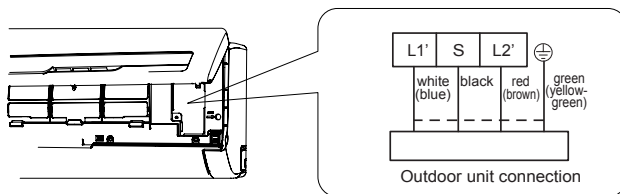


Installation of indoor unit

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



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



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

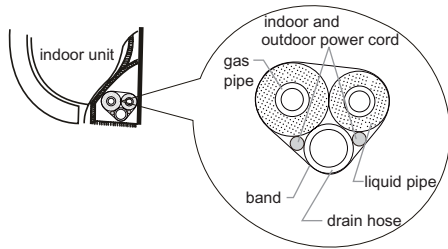
Note:

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

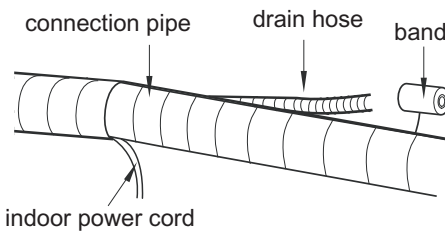
Installation of indoor unit

Step eight: bind up pipe

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



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



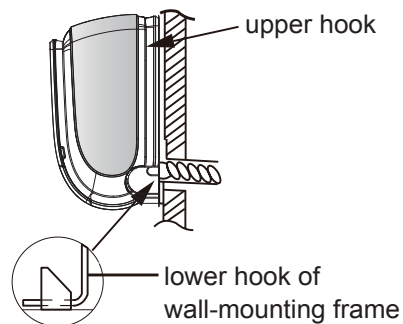
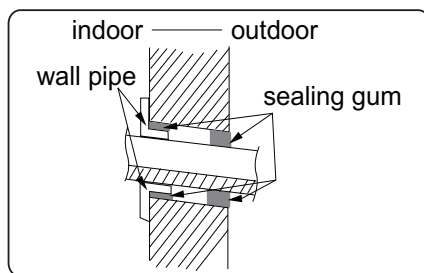
3. Bind them evenly.
4. The liquid pipe and gas pipe should be bound separately at the end.

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.



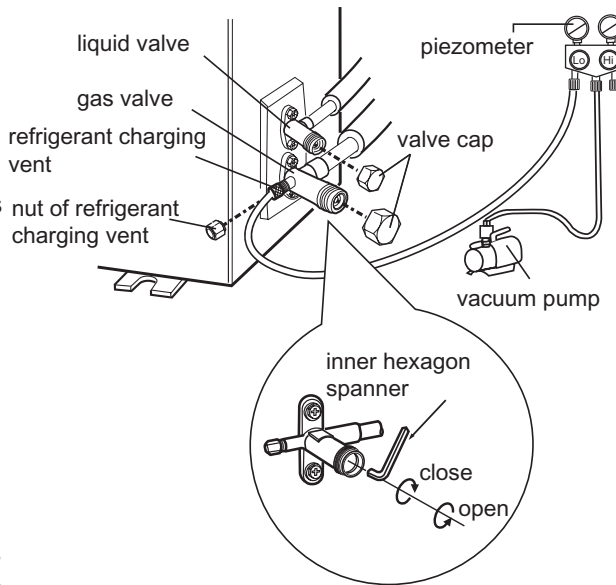
Note:

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

Vacuum pumping

Use vacuum pump

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



Leakage detection

1. With leakage detector:
Check if there is leakage 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 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.
- If the ambient temperature is lower than 16°C , the air conditioner can't start cooling.

Configuration of connection pipe

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

Cooling capacity	Max length of connection pipe	Max height difference	Cooling capacity	Max length of connection pipe	Max height difference
5000Btu/h (1465W)	15	5	24000Btu/h (7032W)	25	10
7000Btu/h (2051W)	15	5	28000Btu/h (8204W)	30	10
9000Btu/h (2637W)	15	5	36000Btu/h (10548W)	30	20
12000Btu/h (3516W)	20	10	42000Btu/h (12306W)	30	20
18000Btu/h (5274W)	25	10	48000Btu/h (14064W)	30	20

4. The additional refrigerant oil and refrigerant charging required after prolonging connection pipe
 - After the length of connection pipe is prolonged for 10m at the basis of standard length, you should add 5ml of refrigerant oil for each additional 5m of connection pipe.
 - The calculation method of additional refrigerant charging amount (on the basis of liquid pipe):

$$\text{Additional refrigerant charging amount} = \text{prolonged length of liquid pipe} \times \text{additional refrigerant charging amount per meter}$$
 - 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 connection pipe		Outdoor unit throttle	
Liquid pipe(mm)	Gas pipe(mm)	Cooling only(g/m)	Cooling and heating(g/m)
Φ6	Φ9.52 or Φ12	15	20
Φ6 or Φ9.52	Φ16 or Φ19	15	50
Φ12	Φ19 or Φ22.2	30	120
Φ16	Φ25.4 or Φ31.8	60	120
Φ19	—	250	250
Φ22.2	—	350	350

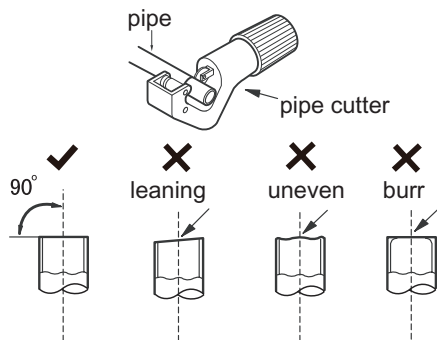
Pipe expanding method

Note:

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

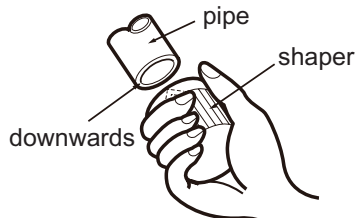
A: Cut the pipe

- 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

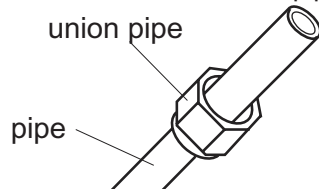
- Remove the burrs with shaper and prevent the burrs from getting into the pipe.



C: Put on suitable insulating pipe

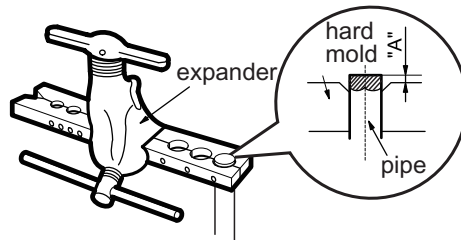
D: Put on the union nut

- 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.



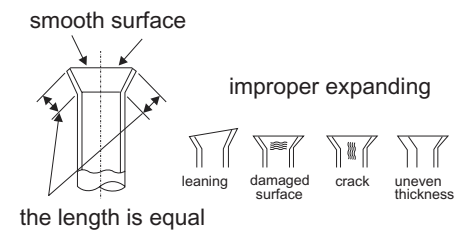
Note:

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

Outer diameter (mm)	A(mm)	
	Max	Min
Φ6-6.35(1/4")	1.3	0.7
Φ9.52(3/8")	1.6	1.0
Φ12-12.7(1/2")	1.8	1.0
Φ15.8-16(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.



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