INSTALLATION & OPERATION MANUAL

Models

Indoor Model	Outdoor Model
YWM3F9FBU-W	YSL3F9ABU
YWM3F12FBU-W	YSL3F12BU
YWM3F18FBU-W	YSL3F18BU
YWM3F24FBU-W	YSL3F24BU

Access the full version
of the User Operation Manual
by scanning the code.
More languages available.

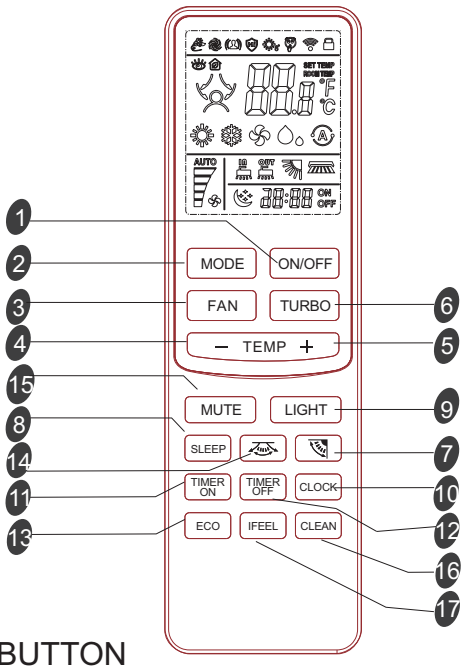
YWM3F-FBU-W / YSL3F-(A)BU

JO2024726HA

Remote controller

Remote controller

The remote controller transmits signals to the system.



1 ON/OFF BUTTON

The appliance will be started when it is energized or will be stopped when it is in operation, if you press this button.

2 MODE BUTTON

Press this button to select the operation mode.

3 FAN BUTTON

Used to select fan speed in sequence auto, high, medium or low.

4 5 ROOM TEMPERATURE SETTING BUTTONS

Used to adjust the room temperature and the timer, also real time.

6 TURBO BUTTON

Used to start or stop the fast cooling.(Fast cooling operates at high fan speed with 16°C set temp automatically).

7 SWING BUTTON

Used to stop or start vertical adjustment louver swinging and set the desired up/down airflow direction.

8 SLEEP BUTTON

Used to set or cancel Sleep Mode operation.

9 LIGHT BUTTON

When you press this button, all the display of indoor unit will be closed.

10 CLOCK BUTTON

Used to set the current time.

11 12 TIMER ON/OFF BUTTON

Used to set or cancel the timer operation.

13 ECO BUTTON

Used to set or cancel Economy Mode operation.

16 CLEAN BUTTON

Used to set the CLEAN function.

14 SWING BUTTON

Used to stop or start Horizontal adjustment louver swinging and set the desired left/right airflow direction.

15 MUTE BUTTON

Press it once,the MUTE function will be started.
Press it again, the MUTE function will be shut off.

17 IFEEL BUTTON

Used to set IFEEL mode operation. Press it once, the IFEEL function will be started. Press it again, the IFEEL function will be shut off.
If the IFEEL function can't be shut off, please try to press this button about 5 seconds.
Advice to put the remote controller in the place where the indoor unit receive signal easily.
Advice to cancel the IFEEL mode so as to save energy when stopping the air conditioner.

11+12 LOCK

Press them together for 3 seconds to start or stop LOCK operation.

Indication symbols on LCD:

- Cooling indicator
- Dry indicator
- Fan only indicator
- Heating indicator
- Turbo indicator
- Auto fan speed
- Higher fan speed
- High fan speed
- Medium fan speed
- Low fan speed
- Lower fan speed
- Smart indicator
- Sleep indicator
- Economy indicator
- Ifeel
- Lock
- Signal transmit.
- 38:88 ON OFF Display set timer / Display current time
- 88 °C Display temperature
- Mute indicator
- Airflow left and right indicator
- Airflow up and down indicator

Note: Each mode and relevant function will be further specified in following pages.

Remote controller

Selecting mode

Each time the "MODE" button is pressed, the operation mode is changed in sequence:

COOLING → DRY → FAN ONLY → HEATING → AUTO

Heating mode is NOT available for cooling only air conditioner.

FAN mode

Each time the "FAN" button is pressed, the fan speed is changed in sequence:

Auto → Higher → High → Medium → Low → Lower

At "FAN ONLY" mode, only "Higher","High","Medium""Low" and "Lower" are available.
At "DRY" mode, Fan speed is set at "Auto" automatically, "FAN" button is ineffective in this case.

Setting temperature

"+" Press once to raise temperature setting by 1℃

"—" Press once to lower temperature setting by 1℃

Range of available set temperature	
*HEATING, COOLING	16℃-30℃

Note: Heating mode is NOT available for cooling only models.

Note: Press and hold " MODE " button and " — TEMP " button together for 3 seconds will alternate the temperature display between the ℃ and °F scale.

Turning on

Press ON/OFF button, when the appliance receives the signal, the RUN indicator of the indoor unit lights up.

SWING, SMART, TIMER ON, TIMER OFF, CLOCK, SLEEP and SUPER operation modes will be specified in the following pages.

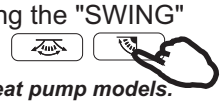
- Changing modes during operation, sometimes the unit does not response at once. Wait 3 minutes.
- During heating operation, air flow is not discharged at the beginning. After 2—5 minutes, the air flow will be discharged until temperature of indoor heat exchanger rises.
- Wait 3 minutes before restarting the appliance.

Airflow direction control

Vertical airflow(Horizontal airflow) is automatically adjusted to a certain angle in accordance with the operation mode after turning on the unit.

Operation mode	Direction of airflow
COOLING, DRY	horizontal
*HEATING, FAN ONLY	downward

The direction of airflow can be also adjusted to your own requirement by pressing the "SWING" button of the remote controller.



Heating mode is only available for heat pump models.

Vertical airflow control

Using remote controller to set various angles of flow or specific angle as you like.

Swinging airflow

Pressing button once, the vertical adjustment louver will swing up and down automatically.

Desired direction airflow

Pressing the button again when the louvers swing to a suitable angle as desired.

Horizontal airflow control

Using remote controller to set various angles of flow or specific angle as you like.

Swinging airflow

Pressing button once, the horizontal adjustment louver will swing left and right automatically.

Desired direction airflow

Pressing the button again when the louvers swing to a suitable angle as desired.

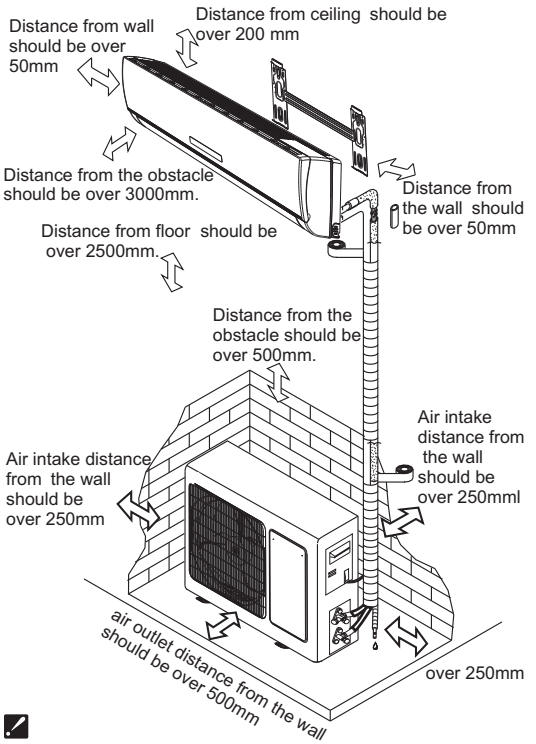
NOTE:This function is to keep global format standardization and for this model isn't available. You can adjust the horizontal airflow by yourself

A Do not turn the vertical adjustment louvers manually, otherwise malfunction may occur. If that happens, turn off the unit first and cut off the power supply, then restore power supply again.

B It is better not to let the vertical adjustment louver tilt downward for a long time at COOLING or DRY mode to prevent condensed water from dripping.

Installation instructions

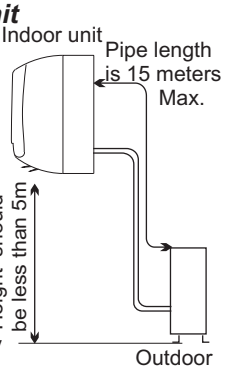
Installation diagram



- ***Above figure is only a simple presentation of the unit, it may not match the external appearance of the unit you purchased.***
- ***Installation must be performed in accordance with the national wiring standards by authorized personnel only.***

Select the installation locations

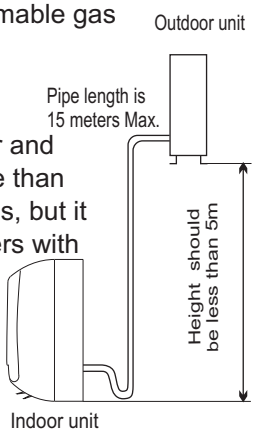
Location for Installing Indoor Unit



1. Where there is no obstacle near the air outlet and air can be easily blown to every corner.
2. Where piping and wall hole can be easily arranged.
3. Keep the required space from the unit to the ceiling and wall according to the installation diagram on previous page.
4. Where the air filter can be easily removed.
5. Keep the unit and remote controller 1m or more apart from television, radio etc.
6. Keep as far as possible from fluorescent lamps.
7. Do not put anything near the air inlet to obstruct it from air absorption.
8. Install on a wall that is strong enough to bear the weight of the unit.
9. Install in a place that will not increase operation noise and vibration.
10. Keep away from direct sunlight and heating sources. Do not place flammable materials or combustion apparatuses on top of the unit.

Location for Installing Outdoor Unit

1. Where it is convenient to install and well ventilated.
2. Avoid installing it where flammable gas could leak.
3. Keep the required distance apart from the wall.



The pipe length between indoor and outdoor unit should be not more than 5 meters in factory default status, but it can go up to maximum 15 meters with additional refrigerant charge.
6. Keep the outdoor unit away from greasy dirt, vulcanization gas exit.
7. Avoid installing it by the roadside where there is a risk of muddy water.
8. A fixed base where it is not subject to increased operation noise.
9. Where there is not any blockage of the air outlet.
10. Avoid installing under direct sunlight, in an aisle or sideway, or near heat sources and ventilation fans. Keep away from flammable materials, thick oil fog, and wet or uneven places.

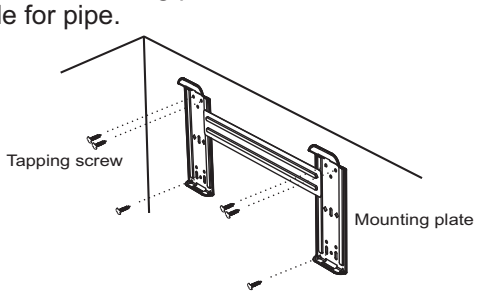
Model	Max. allowed pipe length without additional refrigerant (m)	Limit of pipe length (m)	Limit of Elevation Difference H (m)	Required amount of additional refrigerant (g/m)
5K~18K	5	15	5	20
21K~25K	5	15	5	30
28K~36K	5	15	5	40

If the height or pipe length is out of the scope of the table, please consult the dealer.

Indoor unit installation

1. Installing the Mounting Plate

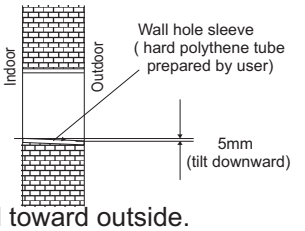
- Decide an installing location for the mounting plate according to the indoor unit location and pipe direction.
- Keep the mounting plate horizontally with a horizontal ruler or level.
- Drill holes of 32mm in depth on the wall for fixing the plate.
- Insert the plastic plugs to the hole, fix the mounting plate with tapping screws.
- Inspect if the mounting plate is well fixed. Then drill a hole for pipe.



Note: The shape of your mounting plate may be different from the one above, but the installation method is similar.

Note: As the above figure shown, the six holes matched with tapping screw on the mounting plate must be used to fix the mounting plate, the others are prepared.

2. Drill a Hole for Pipe

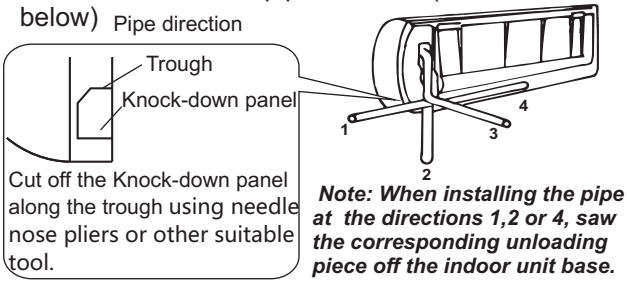


- Decide the position of hole for pipe according to the location of mounting plate.
- Drill a hole on the wall about 50mm. The hole should tilt a little downward toward outside.
- Install a sleeve through the wall hole to keep the wall tidy and clean.

3. Indoor Unit Pipe Installation

- Put the pipes (liquid and gas pipe) and cables through the wall hole from outside or put them
- through from inside after indoor pipe and cables connection complete so as to connect to outdoor unit.

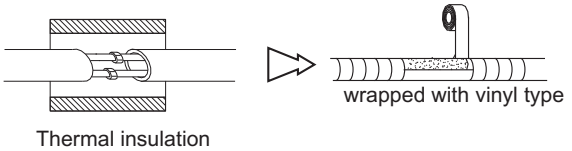
Decide whether saw the unloading piece off in accordance with the pipe direction.(as shown below)



Note: When installing the pipe at the directions 1,2 or 4, saw the corresponding unloading piece off the indoor unit base.

- After connecting pipe as required, install the drain hose. Then connect the power cords. After connecting, wrap the pipes, cords and drain hose together with thermal insulation materials.

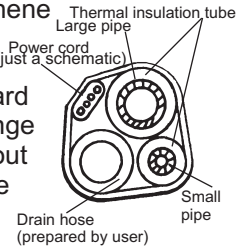
- ***Pipe Joints Thermal Insulation:***
  Wrap the pipes joints with thermal insulation materials and then wrap with a vinyl tape.



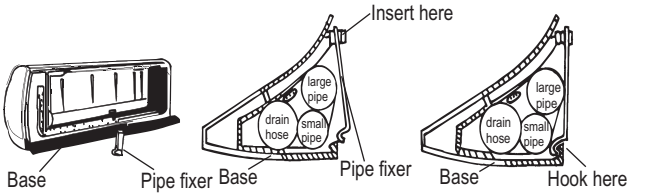
- ***Pipes Thermal Insulation:***

a. Place the drain hose under the pipes.
b. Insulation material uses polythene foam over 6mm in thickness.

Note: Drain hose is prepared by user.



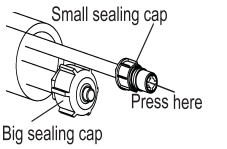
- Drain pipe should point downward for easy drain flow. Do not arrange the drain pipe twisted, sticking out or wave around, do not immerse the end of it in water.
- If an extension drain hose is connected to the drain pipe, make sure to thermal insulated when passing along the indoor unit.
- When the pipes are directed to the right, pipes, power Cord and drain pipe should be thermal insulated and fixed onto the back of the unit with a pipe fixer.



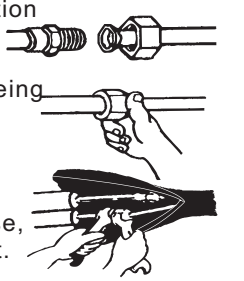
A. Insert the pipe fixer to the slot. B. Press to hook the pipe fixer onto the base.

Piping Connection:

a. Before unscrewing the big and the small sealing caps, press the small sealing cap with the finger until the exhaust noise stops, and then loosen the finger.



b. Connect indoor unit pipes with two wrenches. Pay special attention to the allowed torque as shown below to prevent the pipes, connectors and flare nuts from being deformed and damaged.



c. Pre-tighten them with fingers at first, then use the wrenches.

If you don't hear the exhaust noise, please contact with the merchant.

Model	Pipe size	Torque	Nut width	Min.thickness
5~12K,13~18K,21~24K	Liquid Side (ϕ 6mm or 1/4 inch)	15~20N·m	17mm	0.5mm
18K#,22,24K#,28,30,36K	Liquid Side (ϕ 9.53mm or 3/8 inch)	30~35N·m	22mm	0.6mm
5~10K,12K	Gas Side (ϕ 9.53mm or 3/8 inch)	30~35N·m	22mm	0.6mm
12K#,14,15,18K	Gas Side (ϕ 12mm or 1/2 inch)	50~55N·m	24mm	0.6mm
18K#,22,24,28,30,36K	Gas Side (ϕ 16mm or 5/8 inch)	60~65N·m	27mm	0.6mm
36K#	Gas Side (ϕ 19mm or 3/4 inch)	70~75N·m	32mm	1.0mm

Note: The unit of 12K#,18K#,24K#,36K# is bigger than the unit of 12K,18K,24K,36K.

4. Connecting of the Cable

- Indoor Unit

Connect the power cord to the indoor unit by connecting the wires to the terminals on the control board individually in accordance with the outdoor unit connection.

Note: For some models, it is necessary to remove the cabinet to connect to the indoor unit terminal.

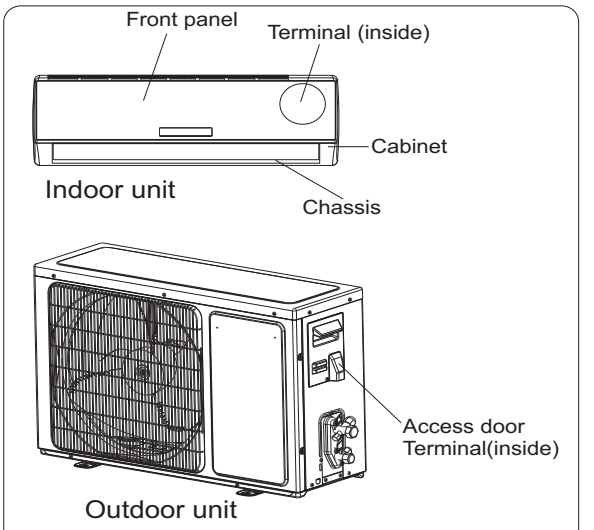
- Outdoor Unit

1) Remove the access door from the unit by loosening the screw. Connect the wires to the terminals on the control board individually as follows.

2) Secure the power cord onto the control board with cable clamp.

3) Reinstall the access door to the original position with the screw.

4) Use a recognized circuit breaker for 24K model between the power source and the unit. A disconnecting device to adequately disconnect all supply lines must be fitted.



The figures in this manual are based on the external view of a standard model. Consequently, the shape may differ from that of the air conditioner you have selected.

Caution:

***1. Never fail to have an individual power circuit specifically for the air conditioner. As for the method of wiring, refer to* the circuit diagram posted on the inside of the access door.**
***2.* Confirm that the cable thickness is as specified in the power source specification.**
3. Check the wires and make sure that they are all tightly fastened after cable connection.
4. Be sure to install an earth leakage circuit breaker in wet or moist areas.

Cable Specifications

Capacity (Btu/h)	Power cord		Power connecting cord		Power connecting cord1		Main power supply
	Type	Normal cross - sectional area	Type	Normal cross - sectional area	Type	Normal cross - sectional area	
5K~13K	H05VV-F	0.75~1.5mm²X3	H07RN-F H05RN-F	1.5mm²X3 0.75~1.0mm²X3	H05RN-F	0.75mm²X2 (Heat-pump)	To indoor
14K~24K	H05VV-F	1.5~2.5mm²X3	H07RN-F	1.5~2.5mm²X3	H05RN-F	0.75mm²X2 (Heat-pump)	To indoor
18K~30K	H05VV-F	1.5~2.5mm²X3	H07RN-F	1.5~2.5mm²X4	H05RN-F	0.75mm²X2 (Heat-pump&Optional)	To indoor
18K~30K	H07RN-F	2.5mm²X3	H05RN-F H07RN-F	1.0mm²X3 1.0mm²X4Cooling only	H05RN-F	0.75mm²X3 (Heat-pump)	To outdoor
24K~36K	H07RN-F	2.5~4.0mm²X3	H05RN-F H07RN-F	0.75mm²X4 1.0mm²X4	H05RN-F	0.75mm²X2 (Heat-pump&Optional)	To outdoor
24K~36K	H07RN-F	1.5mm²X5	H05RN-F	0.75mm²X4	H05RN-F	0.75mm²X2 (Heat-pump)	To outdoor

NOTE:

The cord may be different from the list above. It may be used as the next list. And it can be larger.0-6A, use 0.75mm² or 18AWG. 0-10A, use 1mm² or 16AWG. 0-16A, use 1.5mm² or 14AWG 0-20A, use 2.5mm² or 14AWG. 0-25A, use 2.5mm² or 12AWG. 0-32A, use 4mm²

Wiring diagram

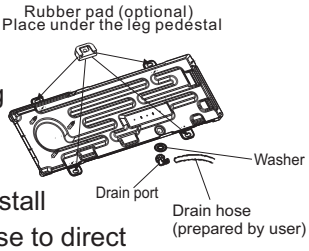
Warning:

Before obtaining access to terminals, all supply circuits must be disconnected.

Make sure that the color of the wires in the outdoor unit and terminal No. are the same as those of the indoor unit, the details please refer to the wiring diagram which is near the terminal inside the unit.

Outdoor unit installation

1. Install Drain Port and Drain Hose (for heat-pump model only)



The condensate drains from the outdoor unit when the unit operates in heating mode. In order not to disturb your neighbor and protect the environment, install a drain port and a drain hose to direct the condensate water. Just install the drain port and rubber washer to the chassis of the outdoor unit, then connect a drain hose to the port as the right figure demonstrates.

2. Install and Fix Outdoor Unit

Fix with bolts and nuts tightly on a flat and strong floor. If installed on the wall or roof, make sure to fix the supporter well to prevent it from shaking due to serious vibration or strong wind.

3. Outdoor Unit Piping Connection

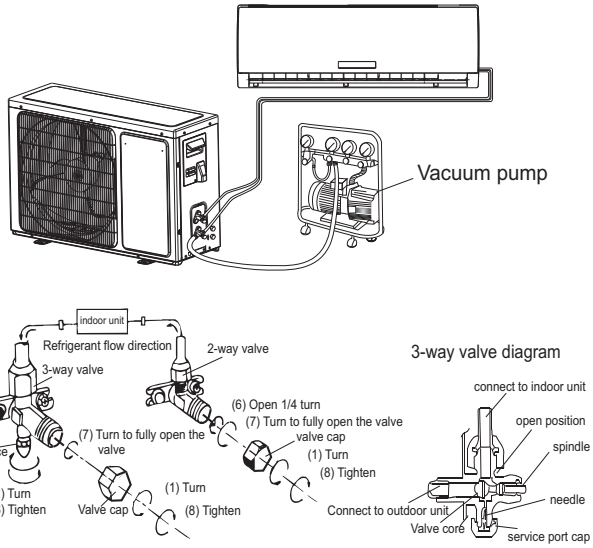
- Remove the valve caps from the 2-way and 3-way valve.
- Connect the pipes to the 2-way and 3-way valves separately according to the required torque.

4. Outdoor Unit Cable Connection (see previous page)

Air purging

The air which contains moisture remaining in the refrigeration cycle may cause a malfunction on the compressor. After connecting the indoor and outdoor units, release air and moisture from the refrigerant cycle using a vacuum pump, as shown below.

Note: To protect the environment, be sure not to discharge the refrigerant to the air directly.



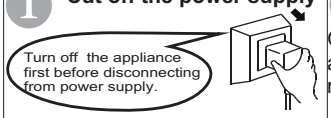
How to Purge Air Tubes:

(1) Unscrew and remove caps from 2 and 3-way valves.
(2) Unscrew and remove cap from service valve.
(3) Connect vacuum pump flexible hose to the service valve.
(4) Start vacuum pump for 10-15 minutes until reaching a vacuum of 100Pa absolutes.
(5) With vacuum pump still running close the low pressure knob on vacuum pump manifold. Then stop the vacuum pump.
(6) Open 2-way valve ,1/4 turn, then close it after 10 seconds. Check tightness of all joints using liquid soap or an electronic leak detector
(7) Turn 2 and 3-way valves stem to fully open the valves. Disconnect the flexible vacuum pump hose.
(8) Replace and tighten all valve caps.

Maintenance

◆ Front panel maintenance

1 Cut off the power supply



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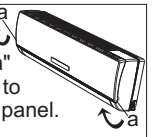


Grasp position "a" and pull outward to remove the front panel.

3 Wipe with a soft and dry cloth

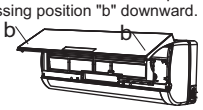
Use soft moisture cloth to clean if the front panel is very dirty;

4 Never use volatile substance such as gasoline or polishing powder to clean the appliance.

5 Never sprinkle water onto the indoor unit

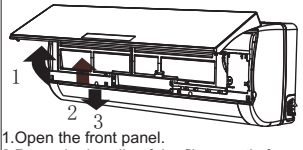
6 Reinstall and shut the front panel.

Reinstall and shut the front panel by pressing position "b" downward.



◆ Air filter maintenance

1 Stop the appliance, cut off the power supply and remove the air filter.



1.Open the front panel.
2.Press the handle of the filter gently from the front.
3.Grasp the handle and slide out the filter.

2 Clean and reinstall the air filter.

If the dirt is conspicuous, wash it with a solution of detergent in lukewarm water.After cleaning, dry well in shade.

3 Close the front panel again

Clean the air filter every two weeks if the air conditioner operates in an extremely dusty environment.

It is necessary to clean the air filter after using it for about 100 hours.

Protection

◆ Operating condition

The protective device maybe trip and stop the appliance in the cases listed below

HEATING	Outdoor air temperature is over 24℃
	Outdoor air temperature is below -7℃
	Room temperature is over 27℃

	*note
COOLING	Room temperature is below 21℃
DRY	Room temperature is below 18℃

NOTE:

****Normally,the outdoor max temperature is 43℃,but some models will be achieved 46℃,48℃,or 50℃.For Tropical (T3) Climate condition models, the outdoor max temperature is 55 ℃.***

The temperature of some products is allowed beyond the range. In specific situation, please consult the merchant.

If the air conditioner runs in COOLING or DRY mode with door or window opened for a long time when relative humidity is above 80%,dew may drip down from the outlet.

◆ Noise pollution

- Install the air conditioner at a place that can bear its weight in order to operate more quietly.
- Install the outdoor unit at a place where the air discharged and the operation noise would not annoy your neighbors.
- Do not place any obstacles in front of the air outlet of the outdoor unit lest it increases the noise level.

◆ Features of protector

1. The protective device will work at following cases.
- Restarting the unit at once after operation stops or changing mode during operation, you need to wait for 3 minutes.
- Connect to power supply and turn on the unit at once, it may start 20 seconds later.

2. If all operation has stopped, press ON/OFF button again to restart, Timer should be set again if it has been canceled.

◆ Features of HEATING mode

Preheat

At the beginning of the HEATING operation, the airflow from the indoor unit is discharged 2-5 minutes later.

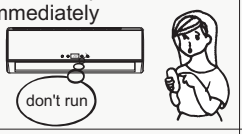
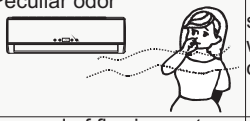
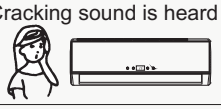
Defrost

In **HEATING** operation the appliance will defrost (de-ice) automatically to raise efficiency.
This procedure usually lasts 2-10 minutes. During defrosting, fans stop operation.
After defrosting completes, it returns to **HEATING** mode automatically.

Note: Heating is NOT available for cooling only air conditioner models.

Troubleshooting

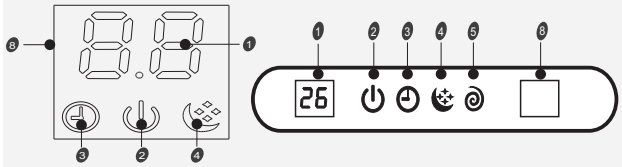
The following cases may not always be a malfunction, please check it before asking for service.

Trouble	Analysis
Does not run 	1. If the protector trip or fuse is blown. 2. Please wait for 3 minutes and start again, protector device may be preventing unit to work. 3. If batteries in the remote controller exhausted. 4. If the plug is not properly plugged.
No cooling or heating air 	1. Is the air filter dirty? 2. Are the intakes and outlets of the air conditioner blocked? 3. Is the temperature set properly?
Ineffective control 	If strong interference(from excessive static electricity discharge, power supply voltage abnormality)presents, operation will be abnormal. At this time, disconnect from the power supply and connect back 2-3 seconds later.
Does not operate immediately 	Changing mode during operation, 3 minutes will delay.
Peculiar odor 	This odor may come from another source such as furniture, cigarette etc, which is sucked in the unit and blows out with the air.
A sound of flowing water 	Caused by the flow of refrigerant in the air conditioner, not a trouble. Defrosting sound in heating mode.
Cracking sound is heard 	The sound may be generated by the expansion or contraction of the front panel due to change of temperature.
Spray mist from the outlet	Mist appears when the room air becomes very cold because of cool air discharged from indoor unit during **COOLING** or **DRY** operation mode.
The compressor indicator (red) lights on constantly, and indoor fan stops.	The unit is shifting from heating mode to defrost.The indicator will lights off within ten minutes and returns to heating mode.

Display introduction

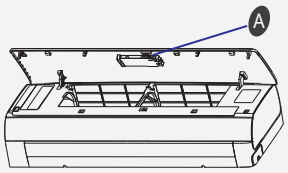
NO	Display	Introduction
1	88	**Temperature indicator** Display set temperature. It shows FC after 200 hours of usage as reminder to clean the filter.After filter cleaning press the filter reset button located on the indoor unit behind the front panel in order to reset the display.(optional)
2		**Running indicator** It lights up when the AC is running. It flashes during defrosting.
3		**Timer indicator** It lights up during set time.
4		**Sleep indicator** It lights up in sleep mode
5		**Compressor indicator** It lights up when the compressor is on
6		**Mode indicator** Heating displays orange,others display white
7		**Fan speed indicator**
8		**Signal Receptor**
9		**Smart WIFI indicator** It lights up during WIFI is on
10		**FAN ONLY mode indicator** It lights up in FAN ONLY mode
11		**Airflow Follow You/Airflow Avoid You indicator**
12	%	**Humidity indicator** It lights up in humidity mode.
13	AI	**Artificial Intelligence Smart Running Indicator** It lights up in AI mode

Example:



☑ ***The symbols may be different from these models, but the functions are similar.***

Emergency button A



Pressing this button can let the AC run or stop.

☑ ***The symbol may be different from your model, but the button is similar.***