SUNSYSTEM

Inverter air conditioner
SUNSYSTEM-HSD
for heating and cooling
(with Wi-Fi control)



TECHNICAL PASSPORT
INSTALLATION AND OPERATION MANUAL

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Possible malfunctions	
Description	**Elimination of causes**
Air conditioner can't be configured successfully	*1. Check the mobile connected WLAN router SSID and password is correct;* *2. Check whether there are additional settings of WLAN router as shown below.* *1) Firewall by router itself or by PC* *2) MAC address filtering* *3) Hidden SSID* *4)DHCP server* *Reboot WLAN router, mobile device and air conditioner (WLAN module) and connect air conditioner by CF mode again. Before rebooting, check nobody has already connected to same air conditioner.*
Mobile can't control air conditioner	*1. When air conditioner (WL AN mod ul e) is rebooted and app displays Device remove, ignor ing th is confirmation will lead to mobile device losing control permission of the air conditioner. You will need to connect the air conditioner by CF mode again .* *2. In case of power failure, mobile device will lose control permission of air conditioner for 3 minutes after power failure. (Nortification will now show up on the mobile device)* *If you cannot control the app (air conditioner) even after power restored, you will need to connect the air conditioner by CF mode again.*
Mobile can't find air conditioner	*1. App display Air conditioner Device offline. Please check the following conditions.* *1)The air conditioner has been reconfigured.* *2)Air conditioner out of power.* *3)Router out of power.* *4)Air conditioner can't connect to router.* *5)Air conditioner can't connect to network through the router.* *6)Mobile device can't connect to network.* *2. After adding the device, it disappears in device list .* *Hold and slide down to refresh the device list. If it has no change, shut down the app and start again*

12.6.4.3. Home(Family) management

1. Tap“ Home Management”
2. Enter the Home Name, set your location and specify the rooms by choosing the recommended room like “Living Room” or tapping “Add Room”
3.Create a Home
4. Join in Home, enter the invitation code and tap - >.



Dear customers, before using the appliance, please read these instructions for installation, storage and operation. We hope that the appliance you have purchased will contribute to creating coziness in your home and reducing energy costs. The purpose of this technical description and operating instructions is to familiarize you with the product and the conditions for its proper installation and operation. Compliance with the instructions in these instructions is in the interest of the buyer and is one of the warranty conditions.

The highly efficient **SUNSYSTEM-HSD** air conditioner combines quiet operation and a host of innovative features. The built-in Wi-Fi module allows remote control even when you are away from home. The system offers fast cooling and heating, ensuring maximum comfort.

Self-cleaning function:
Effectively removes dust and mold, preventing the formation of bacteria. The heat exchanger is dried at a temperature of up to 55°C for clean and healthy air.

Main functions:
Super quiet operation mode – 19dB.
Built-in Wi-Fi module.
Turbo mode for fast cooling and heating.
Inverter compressor.
Environmentally friendly R32 freon.
Self-diagnosis and automatic restart.

1. SAFETY MEASURES

	Before starting the installation process, read the entire instruction.
	The installation of the appliance must strictly follow the instructions, otherwise the warranty will be void.
⚠	**Any modification or replacement of the original parts with others automatically voids the warranty given by the manufacturer. Using the device in an environment and conditions other than those described in this manual automatically voids any claims.**
⚠	**The electrical connection must be carried out by a qualified electrician.**
⚠	**The power cord has a standard plug that must be plugged into a standard socket (16A; 230V). The socket must have a separate power supply from the mains and there must be no other consumers connected to this circuit.**
⚠	**It is forbidden to clean or repair the device during operation.**
⚠	**The installation of the appliance must be carried out in accordance with current standards by an authorized specialist.**

1. During the installation of the indoor and outdoor units, children should be prohibited from entering the work area. Unforeseen accidents may occur.

2. Make sure that the base of the outdoor unit is firmly fixed.

3. Check for air in the refrigeration system and check for refrigerant leaks when moving the air conditioner.

4. Perform a test run after installing the air conditioner and record the operating data.

5. Protect the indoor unit with a fuse with a capacity suitable for the maximum input current or other overload protection device.

6. Make sure that the mains voltage corresponds to that indicated on the rating plate. Keep the switch or plug clean. Insert the plug correctly and firmly into the socket to avoid the risk of electric shock or fire due to poor contact.

7. Check that the socket is suitable for the plug, otherwise replace the socket.

8. The appliance must be equipped with means of disconnection from the mains with contact separation in all poles, ensuring complete disconnection under category III overvoltage conditions, and these means must be incorporated into the fixed wiring in accordance with the wiring rules.

9. Do not install the appliance at a distance of less than 50 cm from flammable substances (alcohol, etc.) or from objects under pressure (e.g. sprays).

10. If the appliance is used in areas without ventilation, precautions must be taken to prevent refrigerant gas from escaping into the environment and creating a fire hazard.

11. The packaging materials are recyclable and must be disposed of in separate waste containers. At the end of its useful life, take the air conditioner to a special waste collection center for disposal.

12. Before accessing the terminals, all power circuits must be disconnected from the power supply.

13. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children must not play with the appliance.

14. Always use the unit with the air filter installed. Using the air conditioner without the air filter may cause excessive dust or debris to accumulate on the internal parts of the unit, possibly resulting in damage.

15. The batteries in the remote control must be recycled or disposed of properly. Please dispose of the batteries as separate household waste at a designated collection point.

16. Never stand directly exposed to the cold air flow for a long time. Direct and prolonged exposure to cold air can be dangerous to your health. Be especially careful in rooms where there are children, the elderly or sick people.

17. If the unit emits smoke or has a burning smell, immediately turn off the power and contact the service center. Continued use of the unit in such conditions may cause fire or electric shock.

18. Repairs should only be carried out by an authorized service center. Improper repair may expose the user to the risk of electric shock, etc.

19. The flaps should be directed downwards in heating mode and upwards in cooling mode.

20. Make sure the appliance is unplugged when it will not be used for a long period of time and before carrying out any cleaning or maintenance.

21. Selecting the most suitable operating temperature can prevent damage to the appliance.

12.6.4. Account management

12.6.4.1.Sharing devices with other accounts.

1. Tap “Device Sharing” and the “Device Sharing” screen will appear..

2. Tap Add Sharing.

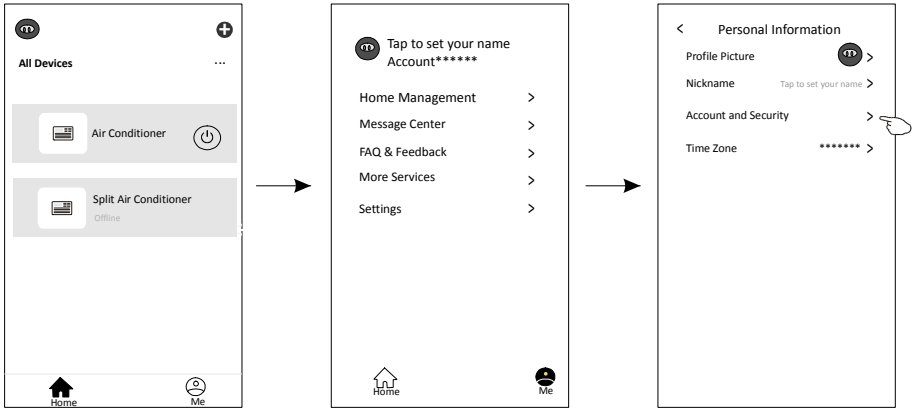
3. Select the region and enter the account which you want to sharing.

4. Tap "Done", the account will appear on your sharing list.

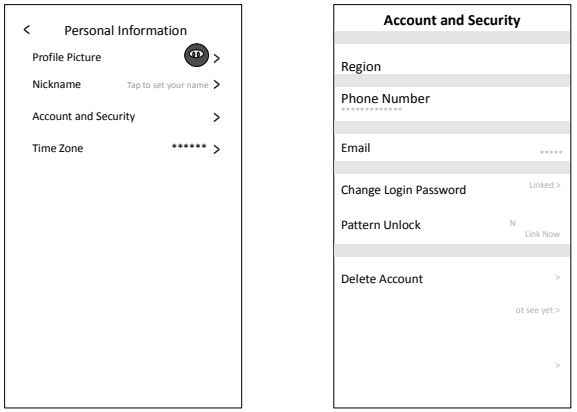
5. The received sharing members should hold pressing the home screen and slide down to refresh the device list, the device will appear on the device list.

12.6.4.2. Account Profile setting

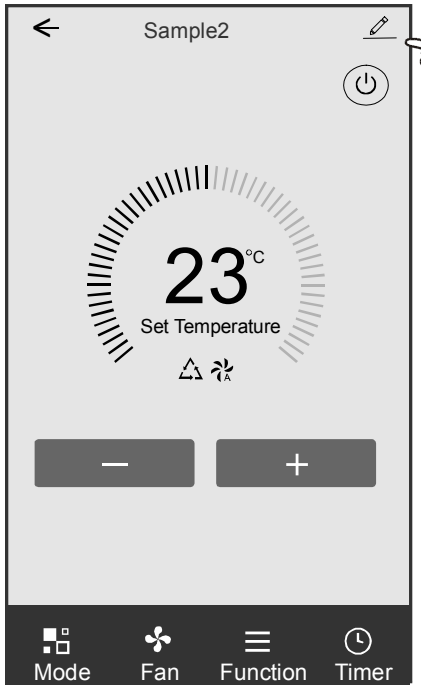
1. Account setting.



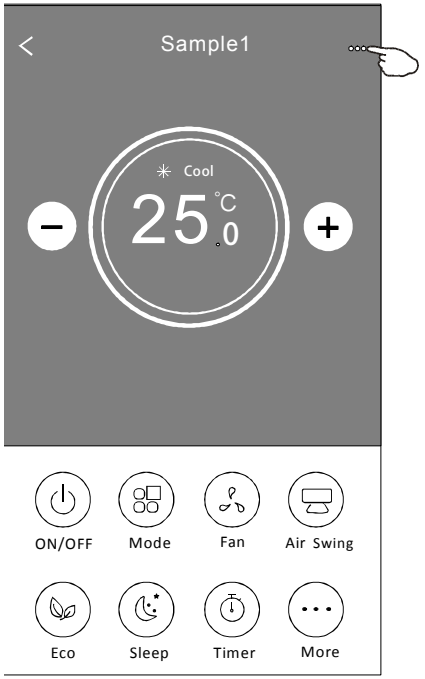
2. Account and security

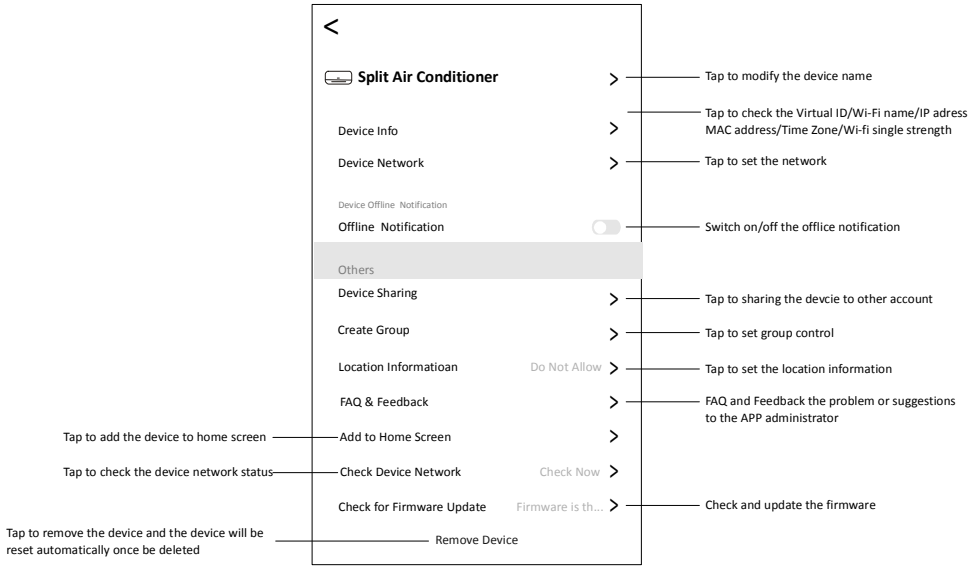


Control form1



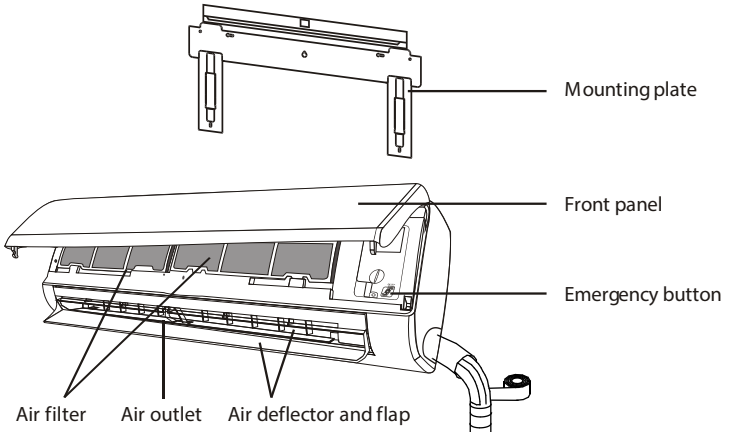
Control form2



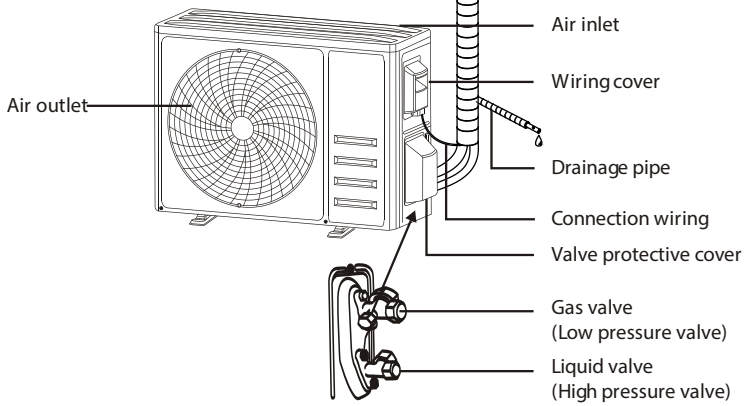


2. PRODUCT DESCRIPTION

Indoor Unit



Outdoor Unit



With the protective cover removed

Note: This figure shown may be different from the actual object. Please take the latter as the standard.

2.1. Internal display



No.	LED	FUNCTION
1		Indicator for Timer, temperature and Error codes.
2		Lights up during Timer operation.
3		SLEEP mode

The shape and position of switches and indicators may be different according to the model, but their function is the same.

Attempt to use the air conditioner under the temperature beyond the specified range may cause the air conditioner protection device to start and the air conditioner may fail to operate. Therefore, try to use the air conditioner in the following temperature conditions.

Temperature	*Heating*	*Cooling*	*Dry*
Room temperature	0 ~ 30°C	17 ~ 32°C	
Outdoor temperature	-20 ~ 30°C	-15 ~ 53°C	

With the power supply connected, restart the air conditioner after shutdown, or switch it to other mode during operation, and the air conditioner protection device will start. The compressor will resume operation after 3 minutes.

2.2. Characteristics of heating operation (applicable to Heating pump)

Preheating:

When the heating function is enabled, the indoor unit will take 2~5 minutes for preheating, after that the air conditioner will start heating and blows warm air.

Defrosting:

During heating, when the outdoor unit frosted, the air conditioner will enable the automatic defrosting function to improve the heating effect. During defrosting, the indoor and outdoor fans stop running. The air conditioner will resume heating automatically after defrosting finish.

Emergency button:

Open the panel and find the emergency button on the electronic control box when the remote controller fails . (Always press the emergency button with insulation material.)



2. Tap the **"Display"** button, to switch on/off the indoor LED display.

3. Tap the **"Buzzer"** button, to switch on/off the buzzing when operating through Wi-Fi APP.

4. Tap the **"Anti-Mildew"** button, to activate the Anti-Mildew function, if it is available on the screen. After AC turning off , it will start drying , reduce residual moisture and prevent mould, after function finish, it will automatically turn off.

5. Tap the **"Health"** button, to switch on/off the healthy function, if it is available on the screen. It activate the antibacterial ioniser function. This function only for models with the ioniser generator.

6. Tap the **"GEN Mode"** button, if it is available on the screen. In this Mode, you can choose one of the three levels of current. The air conditioner will maintain proper current to save energy.

7. Tap the **"Electricity Monitoring"** button, if it is available on the screen. In this function, you can monitor the air conditioner electricity consumption.

8. Tap the **"Self-Cleaning"** button, if it is available on the screen. Check the details of the Self-Cleaning function on User Manual.

9. Tap the **"8°C Heat"** button, if it is available on the screen. This function help keep the room temperature over 8°C. Check the details of the 8°C Heat function on User Manual.

10. Tap the **"Reservation"** button , if it is available on the screen. You can set the time, repeat day, temperature, mode, fan speed, air flow as you desired and then tap Save to activate the function.

The air conditioner will automatically reach your settings at the appointment time.

11. Tap the **"Self-diagnosis"** button, if it is available on the screen.

The air conditioner will automatically diagnosis itself and indicate the Error code and the problem instructions if possible.

12. Tap the "**Sensetive"** button if it is available on the screen. This function allow the air conditioner to turn on/off the display automatically according to the light intensity.

13. Tap the "**Soft Wind"** button if it is available on the screen. In this function, the air conditioner will blow soft airflow through the micro holes on the deflector.

12.6.3. Device details and management

Tap  on control form1 or tap ... on control form2 , get into the device details screen. Here you can get some useful information and sharing the device to other accounts.

Check the following pictures and instructions carefully.The Main controlscreen may appear slightly different ,dependingon the air conditioner model.

12.6.2.4. ECO function

1.For Eco function, just tap the button to activate the function, the button will be lighting and the indicator will appear on the screen.

2.Tap again to disable the function.

3.Temperature controlled for some air conditioner model:

In Cooling mode, the new setting temperature will ≥ 26^{0}C.

In heating mode, the new setting temperature will ≤ 25^{0}C.

12.6.2.5. Sleep function.

1.Tap the Sleep button.

2.Choose your desired sleep mode and tap it.

3.Tap the X button to back to the main control screen.

4.The selected sleep mode indicator will appear on the screen.

Note:

ECO mode is also disabled in Turbo/Sleep mode for some air conditioner models.

12.6.2.6. Timer(on) setting.

1.Tap the Timer button.

2.Tap + in the upper right corner of the Timer main screen.

3.Set the Time/Repeat Date/Power(ON)/Set Temp/Mode/

Fan speed/Precision Air Swing as your desired and then tap Save.

4.The timer will appear on the Timer main screen.

12.6.2.7. Timer(off) setting.

1.Tap the Timer button.

2.Tap + in the upper right corner of the Timer main screen.

3.Choose the Time/Repeat/Switch OFF then tap Save.

4.The timer(off) will appear on the Timer main screen.

12.6.2.8. Timer management.

1.Change the Timer setting:

Tap anywhere of the timer list bar except the switch bar to get into the Timer setting screen, change the setting and then tap save.

2.Enable or Disable the Timer:

Tap the left of the switch to disable the Timer.

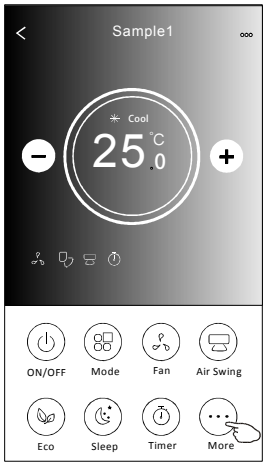
Tap the right of the switch to enable the Timer.

3.Delete the Timer:

Slide the list bar of the Timer from right to left until Delete button appear, then tap delete.

12.6.2.9. More functions.

1. Tap the More button to operate additional functions if it appears on the screen.



Current status	*Operation*	*Respond*	*Enter mode*
Standby	Press the emergency button once	It beeps briefly once.	Cooling mode
Standby (Only for heating pump)	Press the emergency button twice in 3 seconds	It beeps briefly twice.	Heating mode
Running	Press the emergency button once	It keeps beeping for a while	OFF mode

3. INSTRUCTION FOR SERVICING(R32)

1. Check the information in this manual to find out the dimensions of space needed for proper installation of the device, including the minimum distances allowed compared to adjacent structures.

2. Appliance shall be installed, operated and stored in a room with a floor area larger than 4 m^2.

3. The installation of pipe-work shall be kept to a minimum.

4. The pipe-work shall be protected from physical damage, and shall not be installed in an unventilated space if the space is smaller than 4 m^2 .

5. The compliance with national gas regulations shall be observed.

6. The mechanical connections shall be accessible for maintenance purposes.

7. Follow the instructions given in this manual for handling, installing, cleaning, maintaining and disposing of the refrigerant.

8. Make sure ventilation openings clear of obstruction.

9. Notice: The servicing shall be performed only as recommended by the manufacturer.

10. Warning: The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.

11. Warning: The appliance shall be stored in a room without continuously operating open flames (for example an operating gas appliance) and ignition sources (for example an operating electric heater).

12. The appliance shall be stored so as to prevent mechanical damage from occurring.

13. It is appropriate that anyone who is called upon to work on a refrigerant circuit should hold a valid and up-to-date certificate from an assessment authority accredited by the industry and recognizing their competence to handle refrigerants, in accordance with the assessment specification recognized in the industrial sector concerned. Service operations should only be carried out in accordance with the recommendations of the equipment manufacturer.

Maintenance and repair operations that require the assistance of other qualified persons must be conducted under the supervision of the person competent for the use of flammable refrigerants.

14. Every working procedure that affects safety means shall only be carried out by competent persons.

15. Warning:

* Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.

* The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.

* Do not pierce or burn.

* Be aware that refrigerants may not contain an odor.

16. Information on servicing:

1) Checks to the area

Prior to beginning work on systems containing flammable refrigerants, safety checks are

necessary to ensure that the risk of ignition is minimized. For repair to the refrigerating system the following precautions shall be complied with prior to conducting work on the system.

2) Work procedure

Work shall be undertaken under a controlled procedure so as to minimize the risk of a

flammable gas or vapor being present while the work is being performed.

3) General work area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the

workspace shall be sectioned off. Ensure that the conditions within the area have been made

safe by control of flammable material

4) Checking for presence of refrigerant

The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres. Ensure that the leak

detection equipment being used is suitable for use with flammable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

5) Presence of fire extinguisher

If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO 2 fire extinguisher adjacent to the charging area.

6) No ignition sources

No person carrying out work in relation to a refrigeration system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition

risks. No Smoking signs shall be displayed.

7) Ventilated area

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out.

The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

8) Checks to the refrigeration equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed.

If in doubt consult the manufacturer's technical department for assistance.

The following checks shall be applied to installations using flammable refrigerants:

-- The charge size is in accordance with the room size within which the refrigerant containing parts are installed;

-- The ventilation machinery and outlets are operating adequately and are not obstructed;

-- If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;

-- Marking to the equipment continues to be visible and legible. Markings and signs that are

illegible shall be corrected;

-- Refrigeration pipe or components are

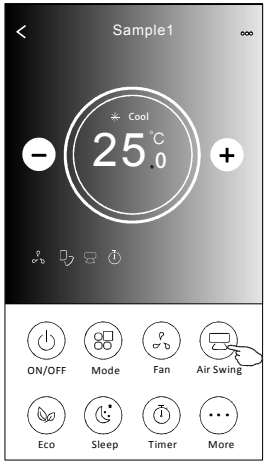
12.6.2.3. Air Flow control.

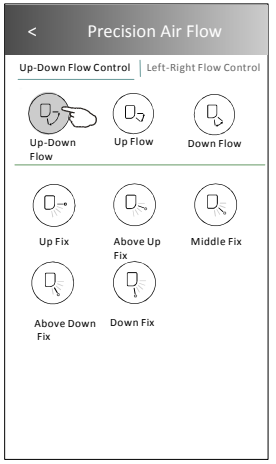
1.Tap the Precision Air Flow button or Swing Flow button.

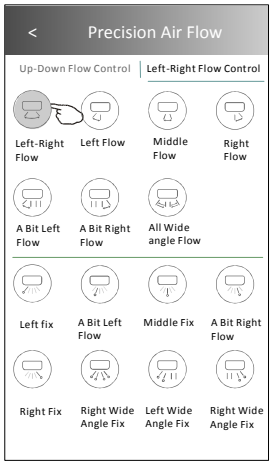
2.Choose your desired air flow and tap it.

3.Tap the X button to back to the main control screen.

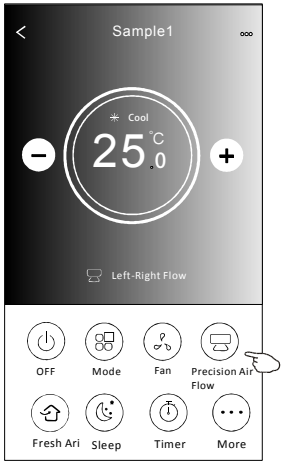
4.The selected air flow indicator will appear on the screen

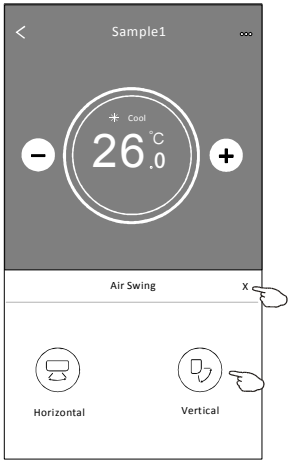


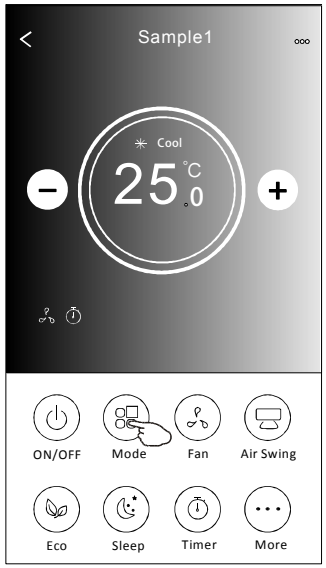


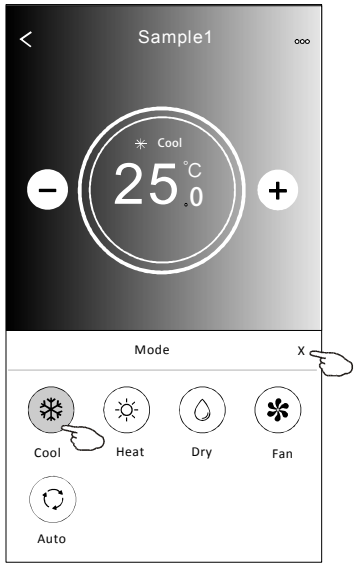


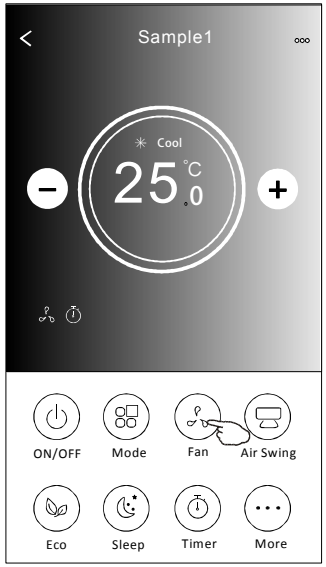
Note: For some models without auto Left-Right wind, If you active it, you will hear a beep, but no any actions.

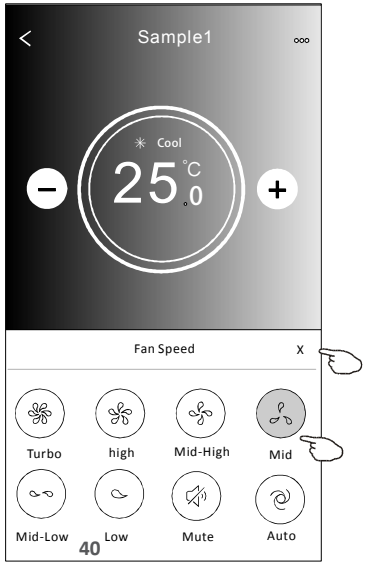












installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

9) Checks to electrical devices

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.

Initial safety checks shall include:

-- That capacitors are discharged: this shall be done in a safe manner to avoid possibility of

sparking;

-- That there no live electrical components and wiring are exposed while charging, recovering or purging the system;

-- That there is continuity of earth bonding.

17. Repairs to sealed components

1) During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.

2) Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc. Ensure that apparatus is mounted securely. Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications.

NOTE: The use of silicon sealant may inhibit the effectiveness of some types of leak detection

equipment. Intrinsically safe components do not have to be isolated prior to working on them.

18. Repair to intrinsically safe components

Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.

Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct rating. Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

19. Cabling

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp

edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

20. Detection of flammable refrigerants

Under no circumstances shall potential sources of ignition be used in the searching for or

detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall

not be used.

21. Leak detection methods

The following leak detection methods are deemed acceptable for systems containing

flammable refrigerants.

Electronic leak detectors shall be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (25 % maximum) is confirmed. Leak detection fluids are suitable for use with most refrigerants

but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work. If a leak is suspected, all naked flames shall be removed/ extinguished. If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. Oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

22. Removal and evacuation

When breaking into the refrigerant circuit to make repairs or for any other purpose conventional procedures shall be used. However, it is important that best practice is followed since inflammability is a consideration. The following procedure shall be adhered to:

-- Remove refrigerant;

-- Purge the circuit with inert gas;

-- Evacuate;

-- Purge again with inert gas;

-- Open the circuit by cutting or brazing.

The refrigerant charge shall be recovered into the correct recovery cylinders. The system shall be flushed with OFN to render the unit safe. This process may need to be repeated several times.

Compressed air or oxygen shall not be used for this task.

Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system. When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing operations on the pipe-work are to take place.

Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is

ventilation available.

23. Decommissioning

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant. It is essential that electrical

power is available before the task is commenced.

a) Become familiar with the equipment and its operation.

b) Isolate system electrically.

c) Before attempting the procedure, ensure that:

-mechanical handling equipment is available, if required, for handling refrigerant cylinders;

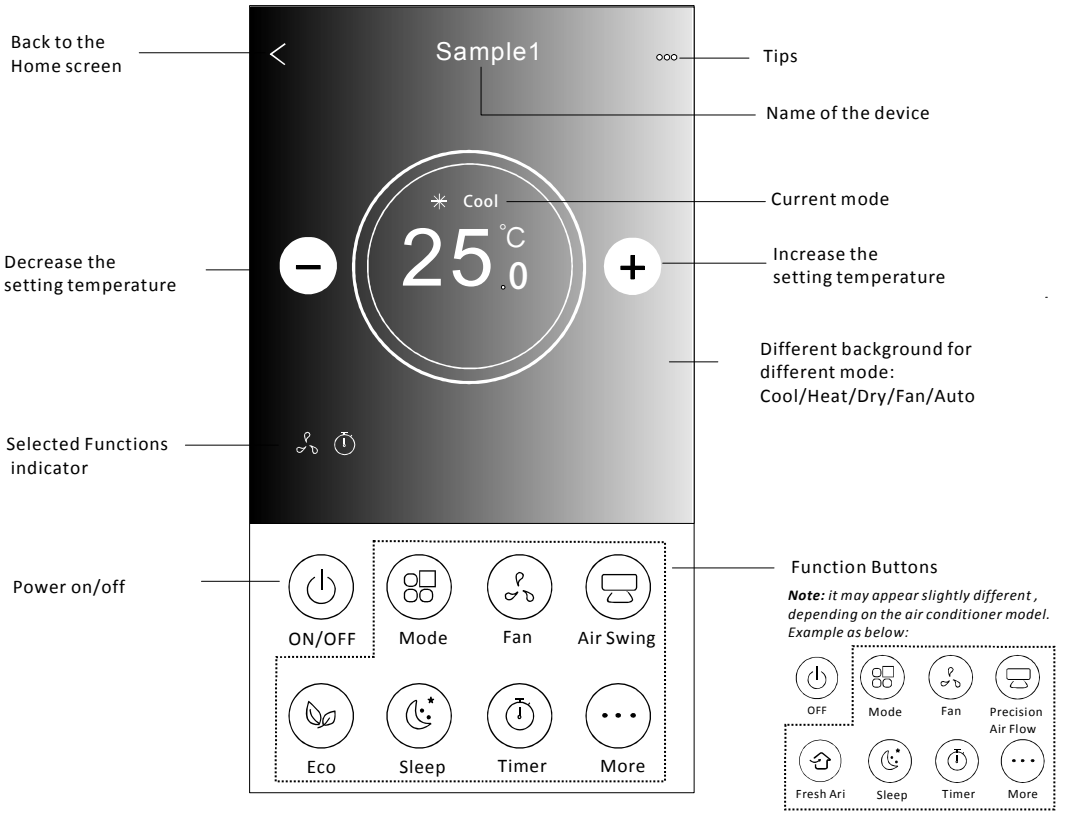
-all personal protective equipment is available and being used correctly;

-the recovery process is supervised at all times by a competent person;

-recovery equipment and cylinders conform to the appropriate standards.

d) Pump down refrigerant system, if possible.

12.6.2. Management method 2.



12.6.2.1. Mode settings

1.Tap the Mode button.

2. There are 5 modes on the Mode screen, tap one button to set the Air conditioner working mode.

3.Tap the X button to back the main control screen.

4.The mode and background will change on the screen.

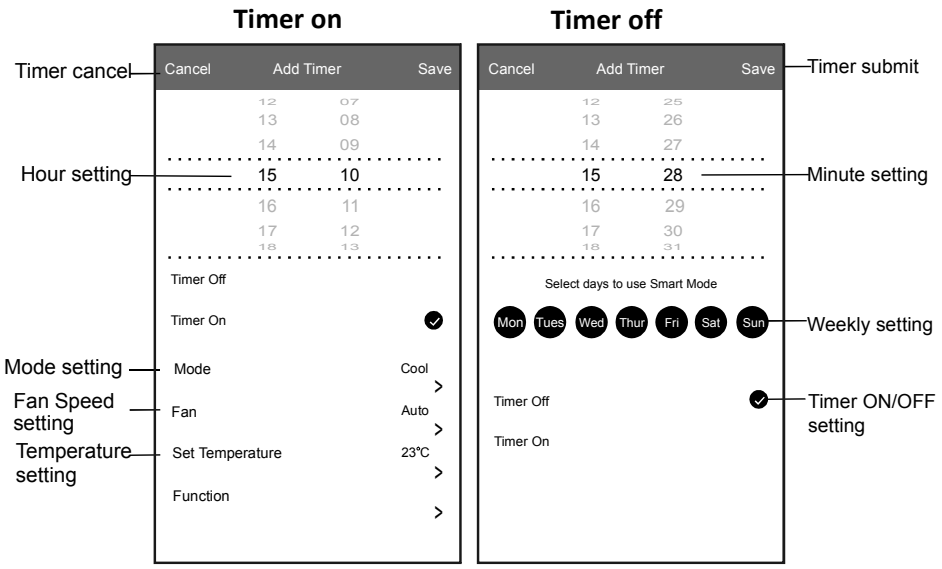
12.6.2.2. Fan speed selection

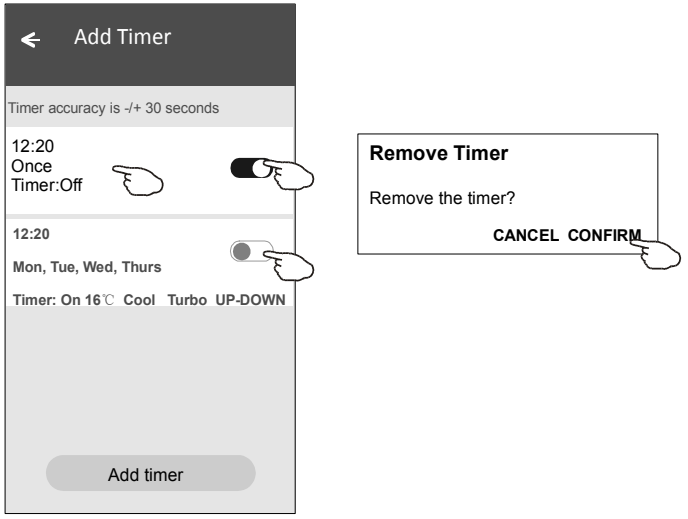
1.Tap the Fan speed button.

2.Choose your desired fan speed and tap it.

3.Tap the X button to back the main control screen.

4.The selected fan speed indicator will appear on the screen.





e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.

F) Make sure that cylinder is situated on the scales before recovery takes place.

g) Start the recovery machine and operate in accordance with manufacturer's instructions.

h) Do not overfill cylinders. (No more than 80 % volume liquid charge).

i) Do not exceed the maximum working pressure of the cylinder, even temporarily.

J) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.

K) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

24. Labeling

Equipment shall be labeled stating that it has been de-commissioned and emptied of refrigerant.

The label shall be dated and signed. Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

25. Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is

recommended good practice that all refrigerants are removed safely.

When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge are available. All cylinders to be used are designated for the recovered refrigerant and labeled for that refrigerant (i.e. Special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order.

Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants including, when applicable, flammable refrigerants. In addition, a set of calibrated weighing scales

shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt.

The recovered refrigerant shall be returned to the refrigerant supplier in the correct recover

cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant.

The evacuation process shall be carried out prior to returning the compressor to the suppliers.

Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.

4. INSTALLATION PRECAUTIONS(R32)

1. The air conditioner must be installed by professional personnel and the Installation manual is used only for the professional installation personnel! The installation specifications should be subject to our after-

sale service regulations.

2. When filling the combustible refrigerant, any of your rude operations may cause serious injury or injuries to human body and objects.

3. A leak test must be done after the installation completed.

4. It is a must to do the safety inspection before maintaining or repairing an air conditioner using combustible refrigerant in order to ensure that the fire risk is reduced to minimum.

5. It is necessary to operate the machine under a controlled procedure in order to ensure that any risk arising from the combustible gas or vapor during the operation is reduced to minimum.

6. Requirements for the total weight of filled refrigerant and the area of a room to be equipped with an air conditioner (are shown as in the following (Tables 1 and 2)

The maximum charge and the required minimum floor area:

m1 = (4 m3) x LFL, m = (26 m3)) x LFL, m = (130 m3)x LFL. Where LFL is the lower flammable limit in kg/ m, R32 LFL is 0,038 kg/m.

For the appliances with a charge amount m < M = m :

The maximum charge in a room shall be in accordance with the following:

$m(max) = 2.5 \times (LFL)^{(5/4)} \times h_0 \times (A)^{1/2}$

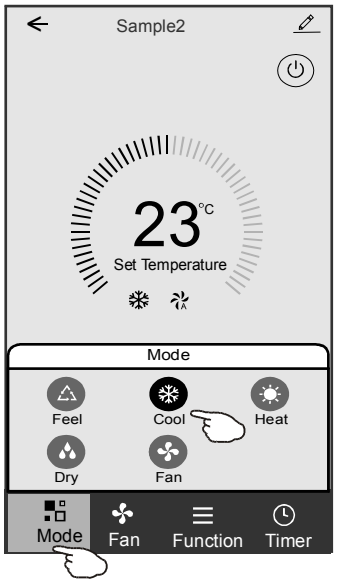
The required minimum floor area Amin to install an appliance with refrigerant charge M (kg) shall be in accordance with following:
Amin = $(M/ (2.5 \times (LFL)^{(5/4)} \times)) h_0$ 2

Table 1 - Maximum charge (kg)

Category	*LFL (kg/m)*	*h_0 (m)*	*Floor area (m2)*						
			4	***7***	***10***	***15***	***20***	***30***	***50***
R32	0.306	1	1.14	1.51	1.8	2.2	2.54	3.12	4.02
		1.8	2.05	2.71	3.24	3.97	4.58	5.61	7.254
		2.2	2.5	3.31	3.96	4.85	5.6	6.86	8.85

Table 2 - Minimum room area (m2)

Category	*LFL (kg/m)*	*h_0 (m)*	*Charge amount (M) (kg)* *Minimum room area (m)*						
			1.224 kg	***1.836 kg***	***2.448 kg***	***3.672 kg***	***4.896 kg***	***6.120 kg***	***7.956 kg***
R32	0.306	0.6		29	51	116	206	321	543
		1		10	19	42	74	116	196
		1.8		3	6	13	23	36	60
		2.2		2	4	9	15	24	40



12.6.1.3. Select fan speed.

1.Tap Fan to pop up the Fan screen.

2.Select one of the fan speed High/med/Low/ Auto.

3.Tap anywhere around the setting temperature to cancel the selection.



12.6.1.4. Function setting.

1.Tap Function to pop up the Function screen.

2.Select one of the functions Sleep/Turbo/ ECO.

3.Select UP-DOWN/LEFT-RIGHT for auto swing with direction of UP-DOWN/LEFT-RIGHT.

4.Tap anywhere around the setting temperature to cancel the Function setting.

12.6.1.5. Timer adding.

1.Tap Timer to pop up the Add Timer screen.

2.Tap Add Timer.

3.Select the time, select the repeat days and Timer on/off.

4.Select the Mode/Fan speed/Function and select the setting temperature for Timer on.

5.Tap Save to add the timer.

12.6.1.6. Timer Management

1.Tap the bar of timer to edit the Timer like the Timer adding process.

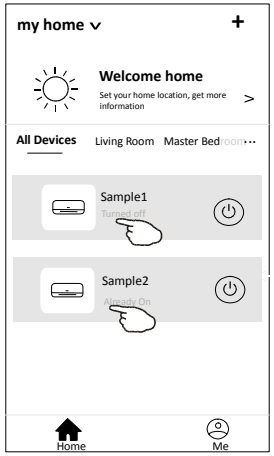
2.Click the switch to enable or disable the Timer.

3.Holdind the bar of Timer about 3seconds and pop up the Remove Timer screen,

tap CONFIRM and remove the Timer.

12.6. Air conditioner control

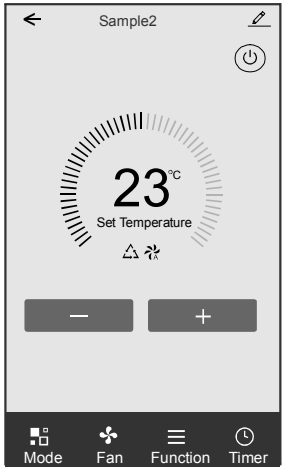
The device management screen will appear automatically after adding them. The device management screen will appear manually by tapping the device name on the home screen.



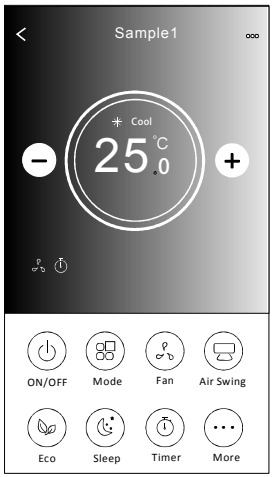
There are **two different control forms** base on different software or Wi-Fi module firmware.

Please read the manual carefully base on the real control interface.

Control form1

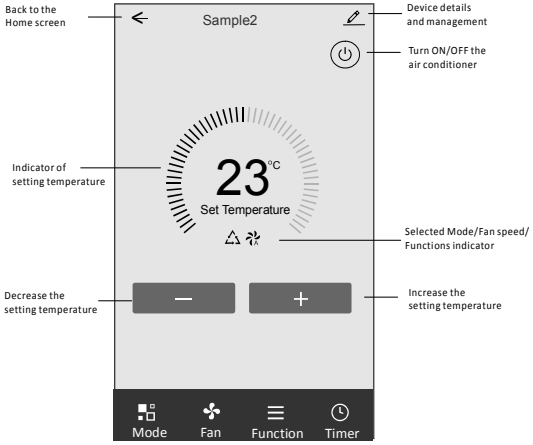


Control form2



12.6.1. Control mode 1.

12.6.1.1. The main control interface:



12.6.1.2. Mode setting

1.Tap Mode to pop up the Mode screen.

2.Select one of the mode Feel/Cool/Heat/Dry/ Fan.

3.Tap anywhere around the setting temperature to cancel the Mode setting.

4.1. Installation Safety

Please note that:

1. The installation site should be well-ventilated.

2. The sites for installing and maintaining an air conditioner using Refrigerant R32 should be free from open fire or welding, smoking, drying oven or any other heat source higher than 548 which easily produces open fire.

3. When installing an air conditioner, it is necessary to take appropriate anti-static measures such as wear anti-static clothing and/or gloves.

4. It is necessary to choose the site convenient for installation or maintenance wherein the air inlets and outlets of the indoor and outdoor units should be not surrounded by obstacles or close to any heat source or combustible and/or explosive environment.

5. If the indoor unit suffers refrigerant leak during the installation, it is necessary to immediately turn off the valve of the outdoor unit and all the personnel should go out till the refrigerant leaks completely for 15 minutes. If the product is damaged, it is a must to carry such damaged product back to the maintenance station and it is prohibited to weld the refrigerant pipe or conduct other operations on the user's site.

6. It is necessary to choose the place where the inlet and outlet air of the indoor unit is even.

7. It is necessary to avoid the places where there are other electrical products, power switch plugs and sockets, kitchen cabinet, bed, sofa and other valuables right under the lines on two sides of the indoor unit.

Pipe Length and Additional Refrigerant		
Inverter Models Capacity (Btu/h)	9K-12K	18K-24K
Lenght of pipe with standard charge	5m	5m
Maximum distance between indoor and outdoor unit	25m	25m
Additional refrigerant charge	15g/m	25g/m
Max. diff. in level between indoor and outdoor unit	10m	10m
Type of refrigerant	R32	R32

Torque Parameters			
PIPE Size	Newton meter [N x m]	Pound-force foot (1bf-ft)	Kilogram-force meter (kgf-m)
1/4 (6.35)	15 - 20	11.1 - 14.8	1.5 - 2.0
3/8 (9.52)	31 - 35	22.9 - 25.8	3.2 - 3.6
1/2 (12)	45 - 50	33.2 - 36.9	4.6 - 5.1
5/8 (15.88)	60 - 65	44.3 - 48.0	6.1 - 6.6

5. INDOOR UNIT INSTALLATION

Step 1: Select Installation location

1.1 Ensure the installation complies with the installation minimum dimensions (defined below) and meets the minimum and maximum connecting piping length and maximum change in elevation as defined in the System Requirements section.

1.2 Air inlet and outlet will be clear of obstructions, ensuring proper airflow throughout the room.

1.3 Condensate can be easily and safely drained.

1.4 All connections can be easily made to outdoor unit.

1.5 Indoor unit is out of reach of children.

1.6 A mounting wall strong enough to withstand four times the full weight and vibration of the unit.

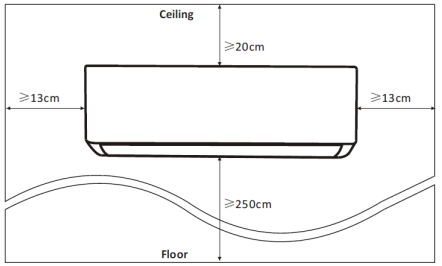
1.7 Filter can be easily accessed for cleaning.

1.8 Leave enough free space to allow access for routine maintenance.

1.9 Install at least 10 ft. (3 m) away from the antenna of TV set or radio. Operation of the air conditioner may interfere with radio or TV reception in areas where reception is weak. An amplifier may be required for the affected device.

1.10 Do not install in a laundry room or by a swimming pool due to the corrosive environment.

Minimum Indoor Clearances



Стъпка 2: Монтирване монтажната плоча

2.1 Вземете монтажната плоча от задната страна на вътрешното тяло. 2.2 Уверете се, че отговаряте на минималните изисквания за монтажни размери, както в стъпка 1. В зависимост от размера на монтажната плоча, определете позицията и залепете монтажната плоча близо до стената. 2.3 Регулирайте монтажната плоча в хоризонтално положение с нивелир, след което маркирайте позициите за отвори за винтове на стената. 2.4 Поставете монтажната плоча и пробийте отвори на маркираните места с бормашина. 2.5 Поставете разширителни гумени тапи в отворите, след което окачете монтажната плоча и я фиксирайте с винтове.

Note:
Make sure the mounting plate is firm enough and flat against the wall after installation.

Step 3: Drill Wall Hole

A hole in the wall should be drilled for refrigerant piping ,the drainage pipe, and connecting cables.

3.1 Determine the location of wall hole base on the position of mounting plate.

3.2 The hole should be have a 70mm diameter at least and a small oblique angle to facilitate drainage.

3.3 Drill the wall hole with 70mm core drill and with small oblique angle lower than the indoor end about 5mm to 10mm.

3.4 Place the wall sleeve and wall sleeve cover(both are optional parts) to protect the connection parts.

Caution:

When drill the wall hole, maker sure to avoid wires, plumbing and other sensitive

3-Bluetooth Mode

1.Power on the indoor unit, no need to launch the air conditioner.

2.Click "+" in the upper right corner of the "Home" screen or tap "Add device" on the room which has no device.

3.Tap the icon.

4.Make sure Bluetooth of your smart phone is available.

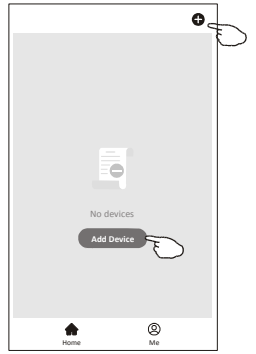
5.Tap in the upper right corner and choose "AP Mode" then follow the comments on the screen to reset the Wi-Fi module then check "Confirm the device is reset" and tap"Next".

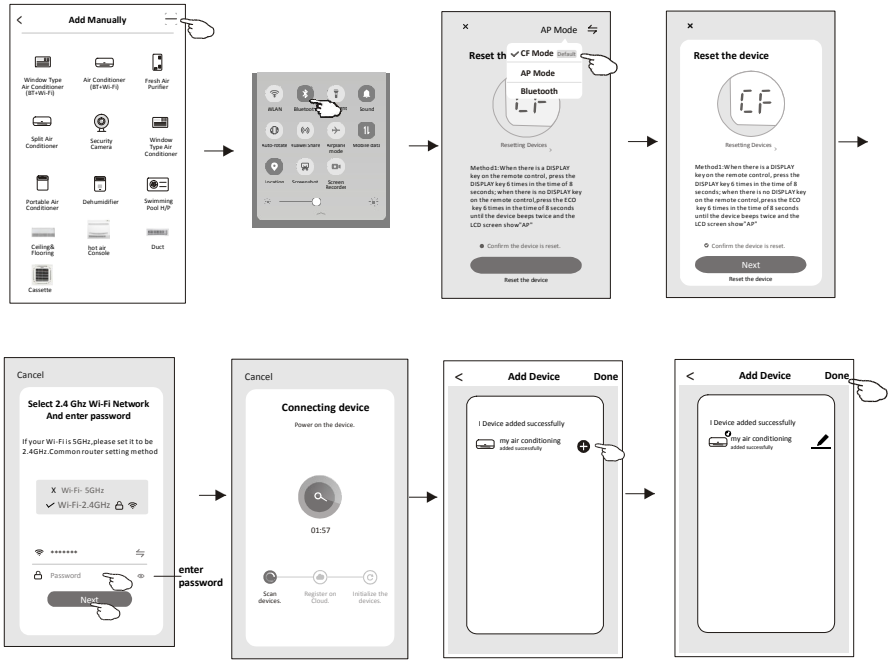
6.Input the password of the Wi-Fi which the same as your smart phone connected, then tap "Next".

7.You can see the percent rate of connecting process, at the same time "PP","SA","AP" shining in turn on the indoor display. "PP" means "Searching the router"

"SA" means "connected to the router" "AP" means "connected to the server"

"PP" means "Searching the router"
"SA" means "connected to the router"
"AP" means "connected to the server"





2-AP mode

1.Power on the indoor unit, no need to launch the air conditioner.

2.Click "+" in the upper right corner of the "Home" screen or tap "Add device" on the room which has no device.

3.Tap the icon.

4.Add device.

5.Input the password of the Wi-Fi which the same as your smart phone connected, then tap "Next".

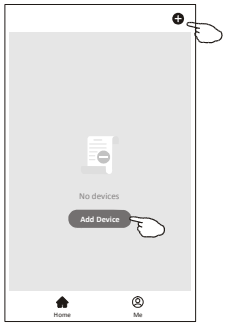
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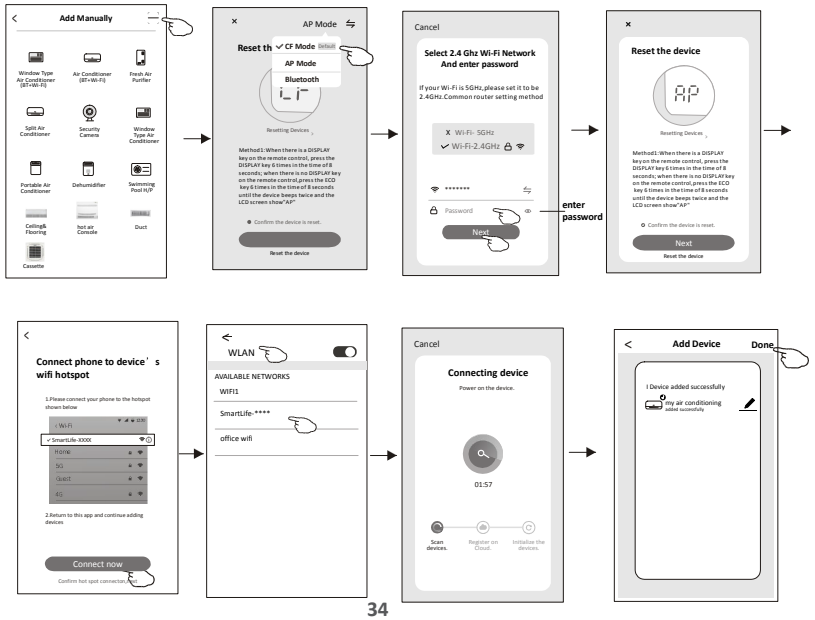
7.Read the instruction carefully and tap "Connect now".

8.In the network setting screen, select "SmartLife-****", and tap" < ".

9.You can see the percent rate of connecting process, at the same time "PP","SA","AP" shining in turn on the indoor display.

"PP" means "Searching the router"
"SA" means "connected to the router"
"AP" means "connected to the server"





components.

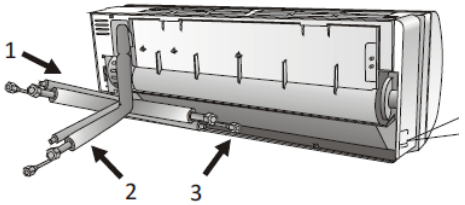
Step 4: Connecting Refrigerant Pipe

4.1 According to the wall hole position, select the appropriate piping mode.

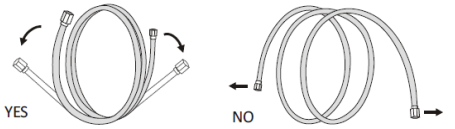
There are three optional piping modes for indoor units as shown in the figure below:

In Piping Mode 1 or Piping Mode 3, a notch should be made by using scissors to cut the plastic sheet of piping outlet and cable outlet on the corresponding side of the indoor unit.

Note: When cutting off the plastic sheet at the outlet, the cut should be trimmed to smooth.



4.2 Bending the connecting pipes with the port facing up as shown in the figure.



4.3 Take off the plastic cover in the pipe ports and take off the protective cover on the end of piping connectors.

4.4 Check whether there is any sundry on the port of the connecting pipe and make ensure the port is clean.

4.5 After align the center, rotate the nut of the connecting pipe to tighten the nut as tightly as possible by hand.

4.6 Use a torque wrench to tighten it according to the torque values in the torque requirements table;

4.7 Wrap the joint with the insulation pipe.

Note: For R32 refrigerant, the connector should be placed outdoors.

Step 5: Connect Drainage Hose

5.1 Adjust the drainage hose(if applicable)

In some model, both sides of the indoor unit are provided with drainage ports, you can choose one of them to attache the drainage hose. And plug the unused drain port with the rubber attached in one of the ports.

5.2 Connect the drainage hose to the drainage port, ensure the joint is firm and the sealing

effect is good.

5.3 Wrap the joint firmly with teflon tape to ensure no leaks.

Note: Make sure there is no twists or dents, and the pipes should be placed obliquely

downward to avoid blockage, to ensure proper.

Step 6: Connect Wiring

6.1 Choose the right cables size determined by the maximum operating current on the nameplate.

(Check the cables size refer to section INSTALLATION PRECAUTIONS)

6.2 Open the front panel of indoor unit.

6.3 Use a screwdriver, open the electric control box cover, to reveal the terminal block.

6.4 Unscrew the cable clamp.

6.5 Insert one end of the cable into the position of control box from the back of the right end of the indoor unit.

6.6 Connect the wires to corresponding terminal according to the wiring diagram on the electric control box cover. And make sure that they are well connected.

6.7 Screw the cable clamp to fasten the cables.

6.8 Reinstall the electric control box cover and front panel.

Step 7: Wrap Piping and Cable

After the refrigerant pipes, connecting wires and drainage hose are all installed, in order

to save space, protect and insulate them, it must be bundle with insulating tape before passing them through the wall hole. Make sure the drainage hose is at the bottom. Using the insulating tape wrap the refrigerant pipes, connecting wires and drainage hose

together tightly.

Step 8: Mount Indoor Unit.

8.1 Slowly pass the refrigerant pipes, connecting wires and drainage hose wrapped bundle through the wall hole.

8.2 Hook the top of indoor unit on the mounting plate.

8.3 Apply slight pressure to the left and right sides of the indoor unit, make sure the indoor unit is hooked firmly.

8.4 Push down the bottom of indoor unit to let the snaps onto the hooks of the mounting plate, and make sure it is hooked firmly.

Sometimes, if the refrigerant pips were already embedded in the wall, or if you want to connecting the pips and wires on the wall, do as below:

(I) Hook the top of the indoor unit on the mounting plate without piping and wiring.

(II) Lift the indoor unit opposite the wall, unfold the bracket on the mounting plate, and use this bracket to prop up the indoor unit, there will be a big space for operation.

(III) Do the refrigerant piping, wiring, connect drainage hose, and wrap them as Step 4 to 7.

6. OUTDOOR UNIT INSTALLATION

Step 1: Select Installation Location

Select a site that allows for the following:

1.1 Do not install the outdoor unit near sources of heat, steam or flammable gas.

1.2 Do not install the unit in too windy or dusty places.

1.3 Do not install the unit where people often pass. Select a place where the air discharge and operating sound will not disturb the neighbors.

1.4 Avoid installing the unit where it will be exposed to direct sunlight (other wise use a protection, if necessary, that should not interfere with the air flow).

1.5 Reserve the spaces as shown in the picture for the air to circulate freely.

1.6 Install the outdoor unit in a safe and solid place.

1.7 If the outdoor unit is subject to vibration, place rubber blankets onto the feet of the unit.

Select a site that allows for the following:

1.1 Do not install the outdoor unit near sources of heat, steam or flammable gas.

1.2 Do not install the unit in too windy or dusty places.

1.3 Do not install the unit where people often pass. Select a place where the air discharge and

operating sound will not disturb the neighbors.

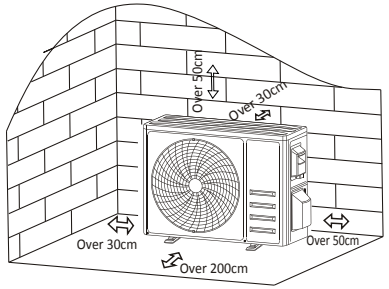
1.4 Avoid installing the unit where it will be exposed to direct sunlight (other wise use a protection,

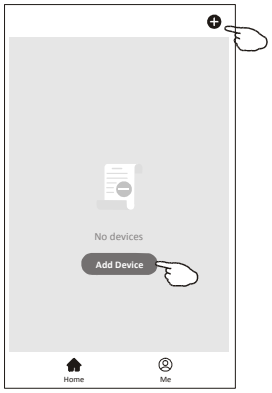
if necessary, that should not interfere with the air flow).

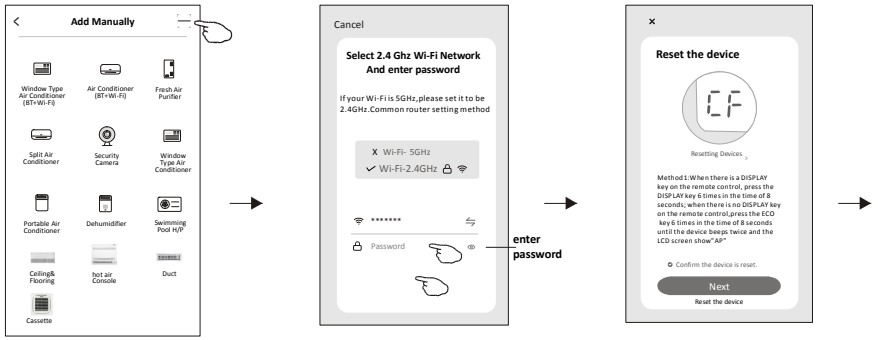
1.5 Reserve the spaces as shown in the picture for the air to circulate freely.

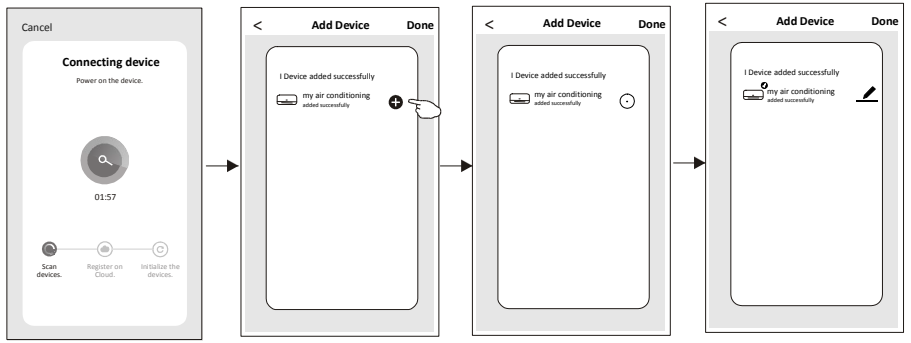
1.6 Install the outdoor unit in a safe and solid place.

1.7 If the outdoor unit is subject to vibration, place rubber blankets onto the feet of the unit.









12.5. Add device.

Before adding the device, open Bluetooth on your smartphone and connect your smartphone to the Wi-Fi. Then, turn on the AC and use the remote controller to reset the Wi-Fi module by following these steps.

Method 1: Press DISPLAY button 6 times in 8 seconds , then you will hear 3 beeps and CF or AP will be showed on the indoor display.

Method 2: Press ECO button 6 times in 8 seconds , then you will hear 3 beeps and CF or AP will be showed on the indoor display.

Method 3: Long press Mode and ^ together over 3 seconds , then you will hear 3 beeps and CF or AP will be showed on the indoor display.

Add the device through auto discovering method.
Note: Make sure bluetooth of your smart phone is on.

1.Power on the indoor unit, no need to launch the air conditioner.

2.Click "+" in the upper right corner of the "Home" screen or tap "Add device" on the room which has no device.

3.Tap "Add" button.

4.Input the password of the Wi-Fi which the same as your smart phone connected, then tap "Next".

5.You can see the percent rate of connecting process, at the same time "PP","SA","AP" shining in turn on the indoor display. "PP" means "Searching the router" "SA" means "connected to the router" "AP" means "connected to the server".

6.Tap "Done".

There are 3 modes to add the device manually.

1-CF mode.

1.Power on the indoor unit, no need to launch the air conditioner.

2.Click "+" in the upper right corner of the "Home" screen or tap "Add device" on the room which has no device.

3.Tap the icon.

4.follow the comments on the screen to reset the Wi-Fi module then check "Confirm the device is reset" and tap"Next".

5.Input the password of the Wi-Fi which the same as your smart phone connected, then tap "Next".

6.You can see the percent rate of connecting process, at the same time "PP","SA","AP" shining in turn on the indoor display.

"PP" means "Searching the router"

"SA" means "connected to the router"

"AP" means "connected to the server"

Step 2: Install Drainage Hose

2.1 This step only for heating pump models.

2.2 Insert the drainage joint to the hole at the bottom of the outdoor unit.

2.3 Connect the drainage hose to the joint and make the connection well enough.

Step 3: Fix Outdoor Unit

3.1 According to the outdoor installation dimensions to mark the installation position for expansion bolts.

3.2 Drill holes and clean the concrete dust and place the bolts .

3.3 If applicable install 4 rubber blankets on the hole before place the outdoor unit (Optional). This will reduce vibrations and noise.

3.4 Place the outdoor unit base on the bolts and pre-drilled holes.

3.5 Use wrench to fix the outdoor unit firmly with bolts.

Note: The outdoor unit can be fixed on a wall-mounting bracket.

The wall-mounting bracket must be able to support at least 4 times of the weight of outdoor unit.

Step 4: Install Wiring

4.1 Use a phillips screwdriver to unscrew wiring cover, grasp and press it down gently to take it down.

4.2 Unscrew the cable clamp and take it down.

4.3 According to the wiring diagram pasted inside the wiring cover, connect the connecting wires to the corresponding terminals, and ensure all connections are firmly and securely.

4.4 Reinstall the cable clamp and wiring cover.

Note: When connecting the wires of indoor and outdoor units, the power should be cut off.

Step 5: Connecting Refrigerant Pipe

5.1 Unscrews the valve cover, grasp and press it down gently to take it down(if the valve cover is applicable).

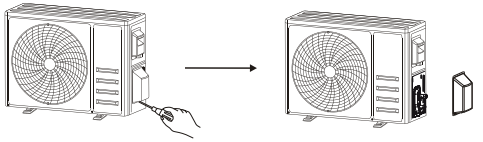
5.2 Remove the protective caps from the end of valves.

5.3 heck whether there is any sundry on the port of the connecting pipe and make ensure the port is clean.

5.4 After align the center, rotate the flare nut of the connecting pipe to tighten the nut as tightly as possible by hand.

5.5 Use a spanner hold the body of the valve and use a torque wrench to tighten the flare nut according to the torque values in the torque requirements table.

Take off the plastic cover in the pipe ports and.





Step 6: Vacuum Pumping

6.1 Use a spanner to take down the protective caps from the service port, low pressure valve and high pressure valve of the outdoor unit.

6.2 Connect the pressure hose of manifold gauge to the service port on the outdoor unit low pressure valve.

6.3 Connect the charge hose from the manifold gauge to the vacuum pump.

6.4 Open the low pressure valve of the manifold gauge and close the high pressure valve.

6.5 Turn on the vacuum pump to vacuum the system.

6.6 The vacuum time should not be less than 15 minutes, or make sure the compound gauge indicates -0.1 MPa (-76 cmHg)

6.7 Close the low pressure valve of the manifold gauge and turn off the vacuum.

6.8 Hold the pressure for 5 minutes, make sure that the rebound of compound gauge pointer does not exceed 0.005 MPa.

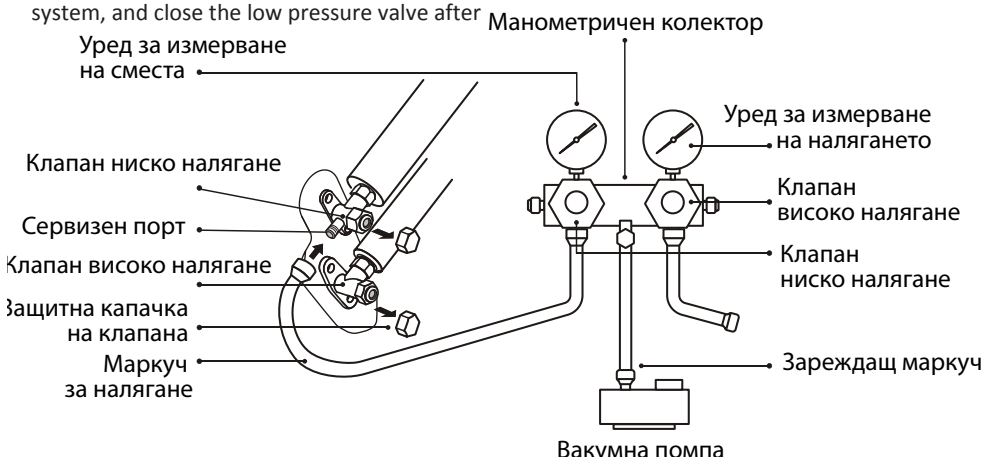
6.9 Open the low pressure valve counterclockwise for 1/4 turn with hexagonal wrench to let a little refrigerant fill in the system, and close the low pressure valve after 5 seconds and quickly remove the pressure hose.

6.10 Check all indoor and outdoor joints for leakage with soapy water or leak detector.

6.11 Fully open the low pressure valve and high pressure valve of the outdoor unit with hexagonal wrench.

6.12 Reinstall the protective caps of the service port, low pressure valve and high pressure valve of the outdoor unit.

6.13 Reinstall the valve cover



7. TEST OPERATION

Do the following checks before test run.

Description	Inspection method
Electrical safety inspection	Check whether the power supply voltage complies with specification. Check whether there is any wrong or missing connection between the power lines, signal line and earth wires. Check whether the earth resistance and insulation resistance comply with requirements.
Installation safety inspection	Confirm the direction and smoothness of drainage pipe. Confirm that the joint of refrigerant pipe is installed completely. Confirm the safety of outdoor unit, mounting plate and indoor unit installation. Confirm that the valves are fully open. Confirm that there are no foreign objects or tools left inside the unit. Complete installation of indoor unit air inlet grille and panel.

12. WI-FI MODULE SETUP SEQUENCE

The Wi-Fi module is located on the front panel of the air conditioner under the front cover, near the electrical box.

12.1. Download and install the application.

For Android smartphone

Method 1: Please scan the QR code with a browser scanner, download and install the APP.

Method 2: Open the Google "Play Store" on your smart phone and search "SmartLife-SmartH ome" , ownload and install the APP.

SmartLife-SmartHome

For iOS smartphone

Method 1: Please scan the QR code and follow the tips to get into "App Store", download and install the APP.

Method 2: Open the Apple "App Store" on your smart phone and search "SmartLife-Smart Home", download and install the APP.

Please enable Storage/Location/ Camera permission for this app when installing it. Otherwise, some problems will occur during operation.

12.2. Activate APP.

Activate and launch the “SmartLife-SmartHome” app on your smartphone.

Method 1: Tap the “Scan” button and scan the right activation QR code.

Method 2: Tap “or Enter Activation Code” at the bottom of the screen, then enter the activation code and tap “CONFIRM”.

12.3. Registration.

1. If you don't have any account please tap button "Sign up".
2. Tap">" and choose the country.
3. Enter your e-mail address.
4. Tap the button "Get verification code".
5. Enter the verification code you received from e-mail.
6. Set the Password with 6-20 characters including characters and numbers.
7. Tap "Done".

12.4. Login in.

1. Tap "Log in".
2. Enter your registered account and password.
3. Tap and read “Privacy Policy” and “User Agreement” carefully then choose “I Agree”.

If you forgot the password or you want to reset the password, operate as below:

1. Tap "Forgot password".
2. Enter your account(e-mail address) and tap button "Get verification code".
3. Enter the verification code received by your e-mail.
4. Set the new password and tap button "Done".

12. INSTALLATION OF WI-FI MODULE

Before proceeding with installation, make sure that you have disconnected the power supply to the product.

1. Required materials – WiFi module, PZ2 screwdriver, M3x6 self-tapping screw.



2. Open the front decorative panel of the indoor unit. On the right side you will find a cover covering the electrical wiring. Remove it.



3. Mount the Wi-Fi module in the specially designed area and tighten it with the screw.



4. Connect the module cable to the circuit board of the indoor unit of the air conditioner by carefully pulling the circuit board towards you. The socket is marked with the inscription Wi-Fi, then put the circuit board back and fix the module cable in the specially designed channel.



5. Reinstall the electrical part cover and close the decorative cover of the indoor unit.

Refrigerant leakage detection	The piping joint, the connector of the two valves of the outdoor unit, the valve spool, the welding port, etc., where leakage may occur. *Foam detection method:* Apply soapy water or foam evenly on the parts where leakage may occur, and observe whether bubbles appear or not, if not, it indicates that the leakage detection result is safe. *Leak detector method:* Use a professional leak detector and read the instruction of operation, detect at the position where leakage may occur. The duration of leak detection for each position should last for 3 minutes or more; If the test result shows that there is leakage, the nut should be tightened and tested again until there is no leakage; After the leak detection is completed, wrap the exposed pip connector of indoor unit with thermal insulation material and wrap with insulation tape.

Test Run Instruction

1. Turn on the power supply.

2. Press the ON/OFF button on the remote controller to turn on the air conditioner.

3. Press the Mode button to switch the mode COOL and HEAT.

In each mode set as below:

COOL-Set the lowest temperature

HEAT-Set the highest temperature

4. Run about 8 minutes in each mode and check all functions are properly run and respond the remote controller. Functions check as recommended:

4.1 If the outlet air temperature respond the cool and heat mode

4.2 If the water drains properly from the drainage hose

4.3 If the Louver and deflectors(optional) rotate properly

5. Observe the test run state of the air conditioner at least 30 minutes.

6. After the successfully test run, return the normal setting and press ON/OFF button on the remote controller to turn off the unit.

7. Inform the user to read this manual carefully before use, and demonstrate to the user how to use the air conditioner, the necessary knowledge for service and maintenance, and the reminder for storage of accessories.

Note:

If the ambient temperature is excess the range refer to section OPERATION INSTRUCTIONS, and it can not run COOL or HEAT mode, lift the front panel and refer to the emergency button operation to run the COOL and HEAT mode.8.

8. ПОДДРЪЖКА

Warning

- When cleaning, you must shut down the machine and cut off the power supply for more than 5 minutes.
- Under no circumstances should the air conditioner be flushed with water.
- Volatile liquid (e.g. thinner or gasoline) will damage the air conditioner, so only use soft dry cloth or wet cloth dipped with neutral detergent to clean the air conditioner.
- Pay attention to cleaning the filter screen regularly to avoid dust covering which will affect the filter screen effect. When the operating environment is dusty, the cleaning frequency should be increased appropriately.
- After removing the filter screen, do not touch the fins of the indoor unit to avoid scratching.

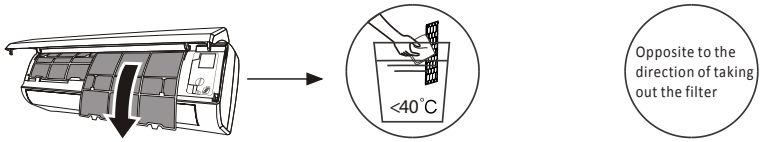
Clean the unit



Wring it dry Gentle wipe the unit surface

Tip: Wipe frequently to keep air conditioner clean and good appearance .

Clean the filter



Take out the filter from the unit Clean the filter with soapy water and air dry it Replace the filter

Tip: When you find accumulated dust in the filter, please clean the filter in time to ensure the clean, healthy and efficient operation inside the air conditioner.

Service and maintenance

- When the air conditioner is not in use for a long time, do the following work:
  Take out the batteries of the remote controller and disconnect the power supply of the air conditioner.
- When starting to use after long-term shutdown:
  1. Clean the unit and filter screen;
  2. Check whether there are obstacles at the air inlet and outlet of indoor and outdoor units;
  3. Check whether the drain pipe is unobstructed;
  Install the batteries of the remote controller and check whether the power is on.

REMOTE CONTROL

SELF-CLEAN function(Optional)

Only optional for some heating pump inverter appliance.
To active this function, turn off the indoor unit at first, then press [CLEAN] button then you will hear a beep, [AC] will appear on the indoor LED, and will appear on the remote display .

1. This function helps carry away the accumulated dirt, bacteria, etc from the indoor evaporator.
2. This function will run about 30 minutes, and it will return to the pre-setting mode. You can press ⏻ button to cancel this function during the process.
   You will hear 2 beeps when it's finished or cancelled.

⚠ It's normal if there is some noise during this function process, as plastic materials expand with heat and contract with cold.

⚠ We suggest operating this function at the following ambient conditions to avoid certain safety protection features.

Indoor unit	Temp < 86°F (30°C)
Outdoor unit	41°F (5°C) < Temp < 86°F (30°C)

⚠ It's suggested to utilize this function every 3 months.

8°C heating function (Optional)

1. Long press [ECO] button over 3 seconds to active this function, and [8°C] ([46°F]) will appear on the remote display.
   Do it again to deactivate this function.
2. This function will auto start the heating mode when the room temperature is lower than 8°C (46°F), and it will return to standby if the temperature reaches 9°C (48°F).
3. If the room temperature is higher than 18°C (64°F), the appliance will cancel this function automatically.

Gentle Wind function (Optional)

1. Turn on the indoor unit, and change to COOL mode, then press [GENTLE WIND] button or long press [FAN] and [MUTE] button together 3 seconds to active this function, will appear on the display.
   Do it again to deactivate it.
2. This function will auto close the vertical flaps, and give you the comfortable gentle wind feeling.

Health function (Optional)

1. Turn on the indoor unit at first, press [HEALTH] to active this function, will appear on the display.
   Do it again to deactivate it.
2. When the HEALTH function is initiated, the Ionizer/ Plasma/ Bipolar Ionizer/ UVC Lights (depending on models) will be energized and running.

ANTI-MILDEW function (Optional)

ANTI-MILDEW

Press [ANTI-MILDEW] button to activate the ANTI-MILDEW function, will appear on the display. Do it again to deactivate this function. After running COOL/ DRY for more than 30 minutes, you can operate this function, the unit will blow airflow for about 15 minutes to dry the inner parts to avoid mildew, then shuts off the unit.

Note: ANTI-MILDEW function only available in DRY/COOLING mode.

REMOTE CONTROL

MUTE function

MUTE

1. Press MUTE button to active this function, and will appears on the remote display. Do it again to deactivate this function.
2. When the MUTE function runs, the remote controller will display the auto fan speed, and the indoor unit will operate at lowest fan speed to be quiet feeling.
3. When press FAN/ TURBO/ SLEEP button, the MUTE function will be cancel. MUTE function can not be activated under dry mode.

SLEEP function

SLEEP Pre-setting automatic operating program.

Press SLEEP button to activate the SLEEP function, and appears on the display. Press again to cancel this function.

After 10 hours running in sleep mode, the air conditioner will change to the previous setting mode.

I FEEL function (Optional)

I FEEL

Press I FEEL button to active the function, the will appear on the remote display. Do it again to deactivate this function.

This function enables the remote control to measure the temperature at its current location, and send this signal to the air conditioner to optimize the temperature around you and ensure the comfort.
It will automatically deactivate 2 hours later.

ECO function

ECO In this mode the appliance automatically sets the operation to save energy.

Press the ECO button, the appears on the display, and the appliance will run in ECO mode. Press again to cancel it.
Note: The ECO function is available in both COOLING and HEATING modes.

DISPLAY function (Indoor display)

DISPLAY Switch ON/OFF the LED display on panel.

Press DISPLAY button to switch off the LED display on the panel. Press again to switch on the LED display.

GEN function (Optional)

1. Turn on the indoor unit at first, and long press MUTE button 3 seconds to active.
2. Under this function, short press MUTE button to select the General type L3 - L2 - L1 - OF.
3. Select OF and wait 2 seconds to exit it.

Wi-Fi reset (Optional)

If there is Wi-Fi function, reset the Wi-Fi as below methods:
Method 1: Press DISPLAY button 6 times in 8 seconds , then you will hear 3 beeps and CF or AP will be showed on the indoor display.
Method 2: Press ECO button 6 times in 8 seconds , then you will hear 3 beeps and CF or AP will be showed on the indoor display.
Method 3: Long press Mode and ^ together over 3 seconds , then you will hear 3 beeps and CF or AP will be showed on the indoor display.

9. ОТСТРАНЯВАНЕ НА НЕИЗПРАВНОСТИ

MALFUNCTION	POSSIBLE CAUSES
The appliance does not operate	Power failure/plug pulled out.
	Damaged indoor/outdoor unit fan motor.
	Faulty compressor thermomagnetic circuit breaker.
	Faulty protective device or fuses.
	Loose connections or plug pulled out.
	It sometimes stops operating to protect the appliance.
	Voltage higher or lower than the voltage range.
	Active TIMER-ON function.
	Damaged electronic control board.
Strange odor	Dirty air filter.
Noise of running water	Back flow of liquid in the refrigerant circulation.
A fine mist comes from the air outlet	This occurs when the air in the room becomes very cold, for example in the “COOLING” or “DEHUMIDIFYING/DRY” modes.
A strange noise can be heard	This noise is made by the expansion or contraction of the front panel due to variations in temperature and does not indicate a problem.
Insufficient airflow, eitherhot or cold	Unsuitable temperature setting.
	Obstructed air conditioner intakes and outlets.
	Dirty air filter.
	Fan speed set at minimum.
	Other sources of heat in the room.
	No refrigerant.
The appliance does not respond to commands	Remote control is not close enough to indoor unit.
	The batteries of remote control need to be replaced.
	Obstacles between remote control and signal receiver in indoor unit.
The display is off	Active DISPLAY function.
	Power failure.
Switch off the air conditioner immediately and cut off the power supply in the event of:	Strange noises during operation.
	Faulty electronic control board.
	Faulty fuses or switches.
	Spraying water or objects inside the appliance.
	Overheated cables or plugs.
	Very strong smells coming from the appliance.

ERROR CODE ON THE DISPLAY

In case of error, the display on the indoor unit shown the following error codes:

Display	Description of the trouble
E1	Indoor room temperature sensor fault
E2	Indoor pipe temperature sensor fault
E3	Outdoor pipe temperature sensor fault
E4	Refrigerant system leakage or fault
E6	Malfunction of indoor fan motor
E7	Outdoor ambient temperature sensor fault
E0	Indoor and outdoor communication fault
E8	Outdoor discharge temperature sensor fault
E9	Outdoor IPM module fault
EA	Outdoor current detect fault
EE	Outdoor PCB EEPROM fault
EF	Outdoor fan motor fault
EH	Outdoor suction temperature sensor fault

10. DISPOSAL GUIDELINE (European)

This appliance contains refrigerant and other potentially hazardous materials. When disposing of this appliance,the law requires special collection and treatment. **DO NOT** dispose of this product as household waste or unsorted municipal waste.

When disposing of this appliance, you have the following options:

- Dispose of the appliance at designated municipal electronic waste collection facility.

- When buying a new appliance, the retailer will take back the old appliance free of charge.

- The manufacturer will also take back the old appliance free of charge.

-Sell the appliance to certifid scrap metal dealers.

- Disposing of this appliance in the forest or other natural surroundings endangers your health and is bad for the environment. Hazardous substances may leak into the ground water and enter the food chain.



REMOTE CONTROL

TIMER function ---- TIMER ON

TIMER To automatic switch on the appliance.

When the unit is switch-off, you can set the TIMER ON.

To set the time of automatic switch-on as below:

1. Press TIMER button first time to set the switch-on, and will appear on the remote display and flashes.
2. Press ^ or v to button to set desired Timer-on time. Each time you press the button, the time increases/decreases by half an hour between 0 and 10 hours and by one between 10 and 24 hours.
3. Press TIMER button second time to confirm.
4. After Timer-on setting, set the needed mode (Cool/ Heat/ Auto/ Fan/ Dry), by press the MODE button. And set the needed fan speed, by press FAN button. And press ^ or v to set the needed operation temperature.

CANCEL it by press TIMER button.

TIMER function ---- TIMER OFF

TIMER To automatic switch off the appliance.

When the unit is switch-on, you can set the TIMER OFF.

To set the time of automatic switch-off, as below:

1. Confirm the appliance is ON.
2. Press the TIMER button at first time to set the switch-off.
   Press ^ or v to set the needed timer.
3. Press TIMER button at the second time to confirm.

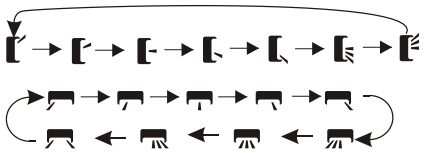
CANCEL it by press TIMER button.

Note: All programming should be operated within 5 seconds, otherwise the setting will be cancelled.

SWING function

1. Press the button SWING to activate the louver,
   1.1 Press to activate the horizontal flaps to swing from up to down, the will appear on the remote display.
   1.2 Press to active the vertical deflectors to swing from left to right, the will appear on the remote display.
   1.3 Do it again to stop the swing movement at the current angle.
2. If the vertical deflectors are positioned manually which placed under the flaps, they allow to move the air flow direct to rightward or leftward.

3.Long press or over 3 seconds to select more angles of the airflow direction.



⚠ Never position "Flaps" manually, the delicate mechanism might seriously damaged!

⚠ Never put fingers, sticks or other objects into the air inlet or outlet vents. Such accidental contact with live parts might cause unforeseeable damage or injury.

TURBO function

TURBO

To activate turbo function, press the TURBO button, and will appear on the display.
Press again to cancel this function.
In COOL/ HEAT mode, when you select TURBO feature, the appliance will turn to quick COOL or quick HEAT mode, and operate the highest fan speed to blow strong airflow.

REMOTE CONTROL

COOLING MODE

COOL The cooling function allows the air conditioner to cool the room and reduce Air humidity at the same time.

To activate the cooling function (COOL), press the MODE button until the symbol appears on the display.
With the button ⌄ or ⌃ set a temperature lower than that of the room.

FAN MODE (Not FAN button)

FAN Fan mode, air ventilation only.

To set the FAN mode, press MODE until appears on the display.

DRY MODE

DRY This function reduces the humidity of the air to make the room more comfortable.

To set the DRY mode, Press MODE until appears in the display. An automatic function of pre-setting is activated.

AUTO MODE

AUTO Automatic mode.

To set the AUTO mode, press MODE until appears on the display.
In AUTO mode the run mode will be set automatically according to the room temperature.

HEATING MODE

HEAT The heating function allows the air conditioner to heat the room.

To activate the heating function (HEAT), press the MODE button until the symbol appears on the display.
With the button ⌄ or ⌃ set a temperature higher than that of the room.

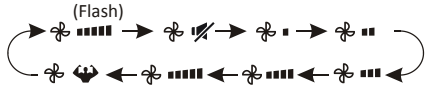
⚠ In HEATING operation, the appliance can automatically activate a defrost cycle, which is essential to clean the frost on the condenser so as to recover its heat exchange function. This procedure usually lasts for 2-10 minutes. During defrosting, indoor unit fan stop operation. After defrosting, it resumes to HEATING mode automatically.

⚠ (For North American market)
If necessary, you can press ECO button 10 times within 8 seconds under heating mode to start the forced defrosting. It will defrost the outdoor ice much faster.

FAN SPEED function (FAN button)

FAN Change the operating fan speed.

Press FAN button to set the running fan speed, it can be set to AUTO/ MUTE/ LOW/ LOW-MID / MID/ MID-HIGH/ HIGH/ TURBO speed circularly.



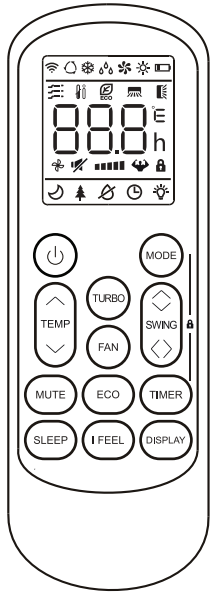
Child-Lock function

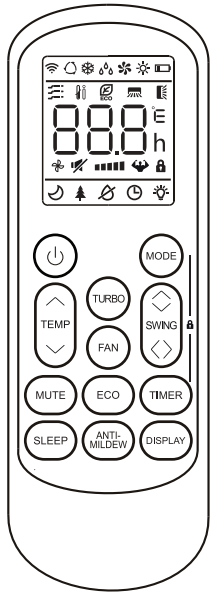
1. Long press MODE and TIMER button together to active this function, and do it again to deactivate this function.
2. Under this function, no single button will active.

11. AIR CONDITIONER REMOTE CONTROLLER

Remote control DISPLAY

No.	Symbols	Meaning
1		Battery indicator
2		Auto Mode
3		Cooling Mode
4		Dry Mode
5		Fan only Mode
6		Heating Mode
7		ECO Mode
8		Timer
9	8.8 °E	Temperature indicator
10		Fan speed: Auto/ low/ low-mid/ mid/ mid-high/ high
11		Mute function
12		TURBO function
13		Up-down auto swing
14		Left-right auto swing
15		SLEEP function
16		Health function
17		I FEEL function
18		Signal indicator
19		Gentle wind
20		Child-Lock
21		Display ON/OFF
22		Anti-Mildew





⚠ The display and some functions of the remote control may vary according to the model.

INSTALLATION and OPERATION MANUAL SUNSYSTEM

No.	Button	Function
1	⏻	To turn on/off the air conditioner .
2	∧	To increase temperature, or Timer setting hours.
3	∨	To decrease temperature, or Timer setting hours.
4	MODE	To select the mode of operation (AUTO, COOL, DRY, FAN, HEAT).
5	ECO	To activate/deactivate the ECO function.
		Long press to activate/deactivate the 8°C heating function (depending on models).
6	TURBO	To activate/deactivate the TURBO function.
7	FAN	To select the fan speed of auto/low/mid/high.
8	TIMER	To set the time for timer on/off.
9	SLEEP	To switch-on/off the function SLEEP.
10	DISPLAY	To switch-on/off the LED display.
11	SWING ⇕	To stop or start horizontal flaps louver movement or set the desired up/down air flow direction.
12	SWING ⇔	To stop or start vertical deflectors louver movement or set the desired left/right air flow direction.
13	I FEEL	To switch-on/off the I FEEL function.
14	MUTE	To switch-on/off the MUTE function.
		Long press to activate/deactivate the GEN function (depending on models).
15	ANTI-MILDEW	To switch-on/off the ANTI-MILDEW function.
16	MODE + TIMER	To activate/deactivate the CHILD-LOCK function.
17	SWING ⇕ + SWING ⇔	To activate/deactivate the SELF-CLEAN function (depending on models).
18	FAN + MUTE	To activate/deactivate the GENTLE WIND function (depending on models).
19	SLEEP + DISPLAY	To activate/deactivate the HEALTH function (depending on models).

⚠ The display and some functions of the remote control may vary according to the model.

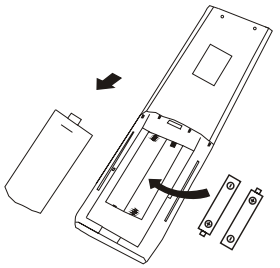
⚠ The shape and position of buttons and indicators may vary according to the model, but their function is the same.

⚠ The unit confirms the correct reception of each button with the beep.

REMOTE CONTROL

Replacement of Batteries

Remove the battery cover plate from the rear of the remote control, by sliding it in direction as the arrow.
Install the batteries according the direction (+ and -)shown on the Remote Control.
Reinstall the battery cover by sliding it into place.



⚠ Use 2 pieces LRO3 AAA (1.5V) batteries.
Do not use rechargeable batteries.
Replace the old batteries with new ones of the same type when the display is no longer legible.
Do not dispose batteries as unsorted municipal waste.
Collection of such waste separately for special treatment is necessary.

⚠ For some models, each time when insert the batteries in the remote controller for the first time, you can set the Cooling only or Heating pump control type. As soon as you insert the batteries, turn off the remote controller, and operate as below.
1. Long press the MODE button, until the (❄) icon flash, to set the Cooling only type.
2. Long press the MODE button, until the (☼) icon flash, to set the Heating pump type.

Note: If you set the remote control in cooling mode, it will not be possible to activate the heating function in units with a heating pump. If you need to reset, take out the batteries and install again.

⚠ For some models of the remote controller, you can program the temperature display between °C and °F.
1. Press and hold the TURBO button over 5 seconds to get into the change mode;
2. Press and hold the TURBO button, until it switch to °C and °F;
3. Then release the pressing and wait for 5 seconds, the function will be selected.

Note:
1. Direct the remote control toward the Air conditioner.
2. Check that there are no objects between the remote control and the Signal receptor in the indoor unit.
3. Never leave the remote control exposed to the rays of the sun.
4. Keep the remote control at a distance of at least 1m from the television or other electrical appliances.