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**MIWTP-CHSD
AIR-CONDITIONER**

User Manual

CONTENTS

* The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for details.
* The shape and position of buttons and indicators may vary according to the model, but their function are the same.

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SAFETY PRECAUTIONS

SAFETY RULES AND RECOMMENDATIONS FOR THE INSTALLER

1. Read this guide before installing and using the appliance.

2. During the installation of the indoor and outdoor units, access to the working area should be forbidden to children. Unforeseeable accidents could happen.

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

4. Check that air cannot enter the refrigerant system and check for refrigerant leaks when moving the air conditioner.

5. Carry out a test cycle after installing the air conditioner and record the operating data.

6. Protect the indoor unit with a fuse of suitable capacity for the maximum input current or with another overload protection device.

7. Ensure that the mains voltage corresponds to that stamped on the rating plate. Keep the switch or power plug clean. Insert the power plug correctly and firmly into the socket, thereby avoiding the risk of electric shock or fire due to insufficient contact.

8. Check that the socket is suitable for the plug , otherwise have the socket changed.

9. The appliance must be fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under "over voltage category III conditions", and these means must be incorporated in the fixed wiring in accordance with the wiring rules.

10. The air conditioner must be installed by professional or qualified persons.

11. Do not install the appliance at a distance of less than 50 cm from inflammable substances (alcohol, etc.) Or from pressurized containers (e.g. spray cans).

12. If the appliance is used in areas without the possibility of ventilation, precautions must be taken to prevent any leaks of refrigerant gas from remaining in the environment and creating a danger of fire.

13. The packaging materials are recyclable and should be disposed of in the separate waste bins. Take the air conditioner at the end of its useful life to a special waste collection center for disposal.

14. Only use the air conditioner as instructed in this booklet. These instructions are not intended to cover every possible condition and situation. As with any electrical household appliance, common sense and caution are therefore always recommended for installation, operation and maintenance.

15. The appliance must be installed in accordance with applicable national regulations.

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

17. The appliance shall be installed in accordance with national wiring regulations.

18. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

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SAFETY PRECAUTIONS

SAFETY RULES AND RECOMMENDATIONS FOR THE INSTALLER

19. Do not try to install the conditioner alone, always contact specialized technical personnel.

20. Cleaning and maintenance must be carried out by specialized technical personnel. In any case disconnect the appliance from the mains electricity supply before carrying out any cleaning or maintenance.

21. Ensure that the mains voltage corresponds to that stamped on the rating plate. Keep the switch or power plug clean. Insert the power plug correctly and firmly into the socket, thereby avoiding the risk of electric shock or fire due to insufficient contact.

22. Do not pull out the plug to switch off the appliance when it is in operation, since this could create a spark and cause a fire, etc.

23. This appliance has been made for air conditioning domestic environments and must not be used for any other purpose, such as for drying clothes, cooling food, etc.

24. Always use the appliance with the air filter mounted. The use of the conditioner without air filter could cause an excessive accumulation of dust or waste on the inner parts of the device with possible subsequent failures.

25. The user is responsible for having the appliance installed by a qualified technician, who must check that earthing/grounding is done in accordance with current legislation and insert a thermos magnetic circuit breaker.

26. The batteries in the remote controller must be recycled or disposed of properly. For disposal of scrap batteries, please discard the batteries as sorted municipal waste at the accessible collection point.

27. Never remain directly exposed to the flow of cold air for a long time. The direct and prolonged exposition to cold air could be dangerous for your health. Particular care should be taken in the rooms where there are children, old or sick people.

28. If the appliance gives off smoke or there is a smell of burning, immediately cut off the power supply and contact the Service Center.

29. The prolonged use of the device in such conditions could cause fire or electrocution.

30. Have repairs carried out only by an authorised Service Center of the manufacturer. Incorrect repair could expose the user to the risk of electric shock, etc.

31. Unhook the automatic switch if you foresee not to use the device for a long time. The airflow direction must be properly adjusted.

32. The flaps must be directed downwards in the heating mode and upwards in the cooling mode.

33. Ensure that the appliance is disconnected from the power supply when it will remain inoperative for a long period and before carrying out any cleaning or maintenance.

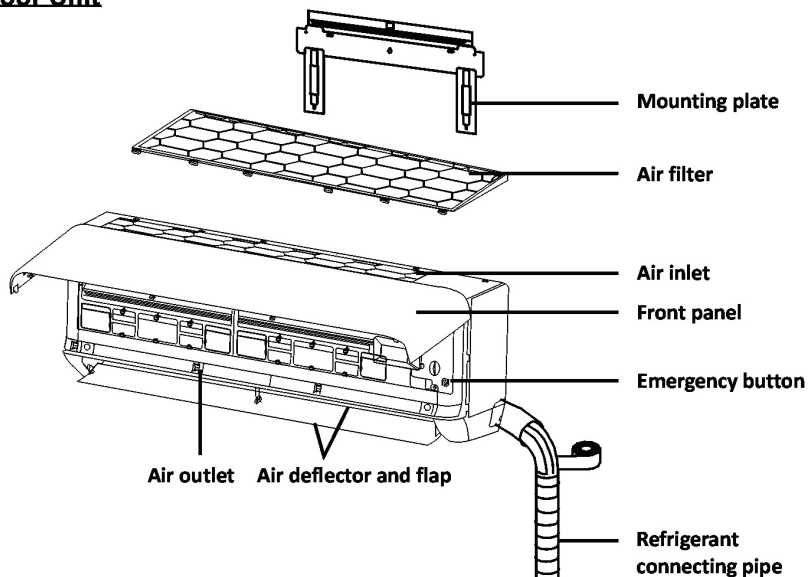34. Selecting the most suitable temperature can prevent damage to the appliance.
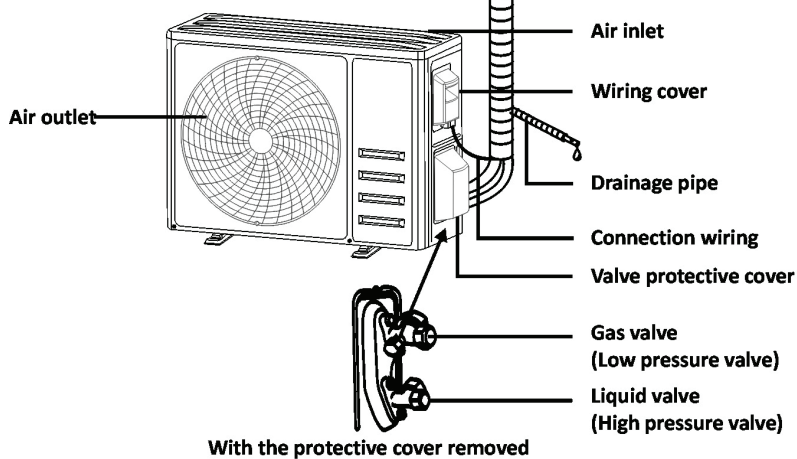
SAFETY PRECAUTIONS

SAFETY RULES AND PROHIBITIONS

1. Do not bend, tug or compress the power cord since this could damage it. Electrical shocks or fire are probably due to a damaged power cord. Specialized technical personnel only must replace a damaged power cord.

2. Do not use extensions or gang modules.

3. Do not touch the appliance when barefoot or parts of the body are wet or damp.

4. Do not obstruct the air inlet or outlet of the indoor or the outdoor unit. The obstruction of these openings causes a reduction in the operative efficiency of the conditioner with possible consequent failures or damages.

5. In no way alter the characteristics of the appliance.

6. Do not install the appliance in environments where the air could contain gas, oil or sulphur or near sources of heat.

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

8. Do not climb onto or place any heavy or hot objects on top of the appliance.

9. Do not leave windows or doors open for long when the air conditioner is operating.

10. Do not direct the airflow onto plants or animals.

11. A long direct exposition to the flow of cold air of the conditioner could have negative effects on plants and animals.

12. Do not put the conditioner in contact with water. The electrical insulation could be damaged and thus causing electrocution.

13. Do not climb onto or place any objects on the outdoor unit.

14. Never insert a stick or similar object into the appliance. It could cause injury.

15. Children should be supervised to ensure that they do not play with the appliance. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

NAME OF PARTS

Indoor Unit

Mounting plate

Air filter

Air inlet

Front panel

Emergency button

Air outlet   Air deflector and flap

Refrigerant connecting pipe

Outdoor Unit

Air inlet

Wiring cover

Air outlet

Drainage pipe

Connection wiring

Valve protective cover

Gas valve
(Low pressure valve)

Liquid valve
(High pressure valve)

With the protective cover removed

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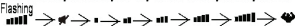   standard.

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NAME OF PARTS

Indoor Display
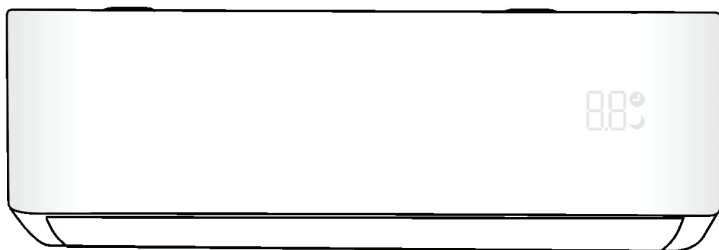
No.	LED	Function
1	88	Indicator for Timer, temperature and Error codes.
2	⏱	Lights up during Timer operation.
3	🌙	SLEEP mode

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

REMOTE CONTROL

No.	Button	Function
1	⏻	To turn on or off the air conditioner .
2	OPTION	To activate or deactivate optional function(Check below table).
3	∨	To decrease temperature, time setting or choose the function.
4	∧	To increase temperature , time setting or choose the function.
5	GEN	To activate/deactivate the GEN function which enables the unit run in the set current level,cycle as below OFF→L3→L2→L1"
5	ECO	Press this button to activate/deactivate the ECO function .
6	TURBO	Press this button to activate/deactivate the Super function which enables the unit to reach the preset temperature in the shortest time.
7	MODE	To select the mode of operation(AUTO COOL DRY FAN HEAT)
8	FAN	To select the fan speed of auto/mute/low/mid-low/mid/mid-high/high/ turbo , cycle as below. Flashing →⤨→▪→▪▪→▪▪▪→▪▪▪▪→❂
9	⬰	To stop or start horizontal flaps louver movement or set the desired up/down air flow direction
10	⬱	To stop or start vertical deflectors louver movement or set the desired left/right air flow direction

ON/OFF	Mode	OPTIONS
ON	AUTO	TIMER DISPLAY HEALTH I FEEL 8°C H
ON	COOL	TIMER DISPLAY HEALTH SLEEP MILDEW I FEEL 8°C H ⬲
ON	DRY	TIMER DISPLAY HEALTH MILDEW I FEEL 8°C H
ON	FAN	TIMER DISPLAY HEALTH I FEEL 8°C H
ON	HEAT	TIMER DISPLAY HEALTH SLEEP I FEEL 8°C H ❂
OFF	AUTO	CLEAN TIMER DISPLAY HEALTH I FEEL 8°C H
OFF	COOL	CLEAN TIMER DISPLAY HEALTH SLEEP MILDEW I FEEL 8°C H ❂
OFF	DRY	CLEAN TIMER DISPLAY HEALTH MILDEW I FEEL 8°C H
OFF	FAN	CLEAN TIMER DISPLAY HEALTH I FEEL 8°C H
OFF	HEAT	CLEAN TIMER DISPLAY HEALTH SLEEP I FEEL 8°C H ⬲

⚠ *You will hear a beep when you press the following buttons or select the following optional functions, though the actual model haven't this function, we express our apologies:*

⬲ *(Optional Function: COMFORTABLE COOLING airflow)*   *HEALTH (Optional Function: generate the ionizer)*

❂ *(Optional Function: COMFORTABLE HEATING airflow)*   ⬱ *(button: SWING LEFT/RIGHT)*

8 C H *(Optional Function: 8℃ Heating)*   flashing ⬱ *(Optional Function: Wide-angle air supply)*

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REMOTE CONTROL

You will hear a beep when you press the following buttons or select the following optional functions, though the actual model haven't this function, we express our apologies:

(Optional Function: COMFORTABLE COOLING airflow)

(Optional Function: COMFORTABLE HEATING airflow)

(Optional Function: 8℃ Heating)
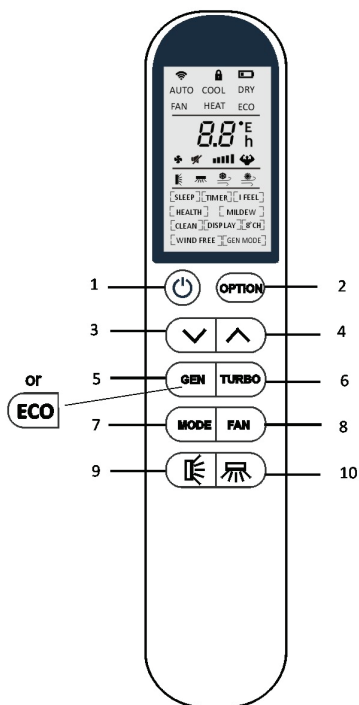
HEALTH (Optional Function: generate the ionizer)

(button: SWING LEFT/RIGHT)

(Optional Function: Wide-angle air supply)

REMOTE CONTROL

Remote controller DISPLAY

Meaning of symbols on the liquid crystal display

No.	Symbols	Meaning
1	📶	Single indicator
2	🔒	Child Lock function indicator
3	🔋	Battery indicator
4	AUTO	Mode Auto function indicator
5	COOL	Mode Cooling indicator
6	DRY	Mode Dry indicator
7	FAN	Mode Fan indicator
8	HEAT	Mode Heating indicator
9	GEN	GEN function indicator
10	*23h* [TIMER]	Timer indicator
11	*28℃*	Temperature indicator
12	❄ Flashing ▮▮▮▮ ▪ ▪▪ ▪▪▪ ▪▪▪▪ ▪▪▪▪	Fan speed indicator: Auto/low/mid-low/mid/mid-high/high
13	🔇	Mute indicator
14	🔱	SUPER indicator
15	(flap swing icons)	Flap swing angle indicator
16	(deflector swing icons) flashing	Deflector swing angle indicator
17	❄	Comfortable cooling airflow indicator
18	☀	Comfortable heating airflow indicator
19	[SLEEP] [TIMER] [I FEEL] [HEALTH] [MILDEW] [CLEAN] [DISPLAY] [8℃CH] [WIND FREE] [GEN MODE]	Optional functions indicator

⚠️ *You will hear a beep when you press the following buttons or select the following optional functions, though the actual model haven't this function, we express our apologies:*

❄ *(Optional Function: COMFORTABLE COOLING airflow)* HEALTH *(Optional Function: generate the ionizer)*

☀ *(Optional Function: COMFORTABLE HEATING airflow)* (swing) *(button: SWING LEFT/RIGHT)*

8℃CH *(Optional Function: 8℃ Heating)* flashing *(Optional Function: Wide-angle air supply)*

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Replacement of Batteries

Remove the battery cover plate from the rear of the remote controller, by sliding it in the direction of the arrow.

Install the batteries according the direction (+and -)shown on the Remote Controller.

Reinstall the battery cover by sliding it into place.

⚠ Use 2 LRO 3 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.
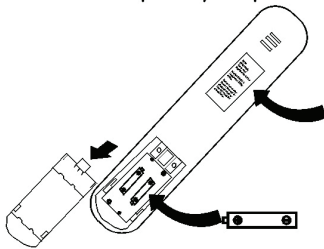
Note
Child-lock:Press ∨and ∧ together to active.

Display ON/OFF:
Long press ECO button.

Please remove batteries to avoid leakage damage when not using for a long time.

⚠ When you insert the batteries for the first time in the remote controller or if you change them, you can program the remote controller of only cooling or cooling and heating.
1. Long press MODE button over 5s to get into the change mode within 3minutes;
2. Press MODE button to change COOL or HEAT.

NOTE: If you adjust the remote controller in cooling mode, it will not be possible to activate the heating function in units with heating pump . you need to take out the batteries and repeat the procedure described above.

⚠ When you insert the batteries for the first time in the remote controller or if you change them, you can program the temperature display switchover function between ^{o}C and ^{o}F.
1. Long press TURBO button over 5s to get into the change mode within 3minutes;
2. Press TURBO button to change ^{o}C and ^{o}F.

⚠ 1. Direct the remote controller 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 controller exposed to the rays of the sun.
4. Keep the remote controller at a distance of at least 1m from the television or other electrical appliances.

Signal receptor

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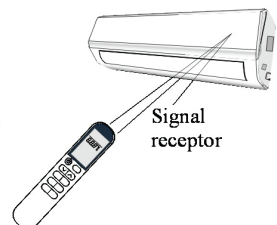
REMOTE CONTROL

The air sucked by the fan enters from the grill and passes through the filter, then it is cooled/dehumidified or heated through the heat exchanger.

The direction of the air outlet is motorized up and down by flaps, and manually moved right and left by the vertical deflectors, for some models, the vertical deflectors could be controlled by motor as well.

Filter
Heat Exchanger
Fan
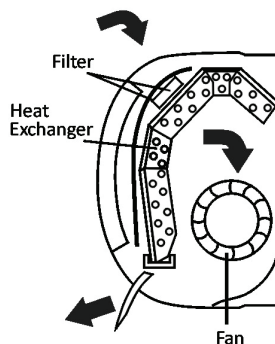
"SWING" CONTROL OF THE AIR FLOW

1.Press the button 🗲 to activate the "FLAP",
(1) If press time interval is in 2 seconds, the swing will cycle as below: 🗲 ⇒ 🗲 ⇒ 🗲 ⇒ deactivate

(2) If long press the button,the swing angle range of horizontal flap will cycle as below: ⇒ ⇒ ⇒ ⇒

(3) If press time interval is over 2 seconds, it will be deactivate the air flow is directed alternatively from up to down .In order to guarantee an even diffusion of the air in the room.

2.Press the button to activates the motorized "deflectors",
(1) If press time interval is in 2 seconds, the swing will cycle as below: ⇒ ⇒ ⇒ ⇒ flashing ⇒ deactivate

(2) If long press the button,the swing will cycle as below: ⇒ ⇒ ⇒ ⇒

(3) If press time interval is over 2 seconds, it will be deactivate the air flow is directed alternatively from left to right. (Optional function, depends on the models)

The deflectors are positioned manually and placed under the flaps .They allow to direct the air flow rightward or leftward.

⚠ This adjustment must be done while the appliance is switched off.

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

⚠ Never poke fingers, sticks or other objects in the air inlet or outlet vents. Such accidental contact with live pants might cause unforeseeable damage or hurt.

OPTION
GEN TURBO
MODE FAN

"flap" movement   Deflectors   "flaps"

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REMOTE CONTROL

COOLING MODE

COOL

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

To activate the cooling function (COOL) , press the MODE button until the symbol COOL appears on the display.

The cooling function is activated by setting the button⌄ or⌃ at a temperature lower than that of the room.

To optimize the function of the Air conditioner, adjust the temperature (1) , the speed (2) and the direction of the air flow (3) by pressing the button indicated.

(1)

(2)

(3)
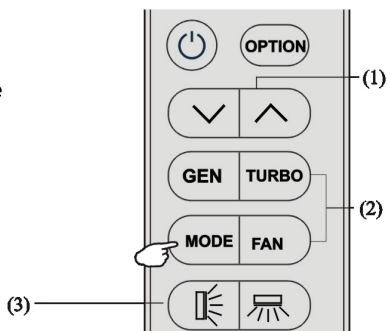
HEATING MODE

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 HEAT appears on the display.

With the button⌄ or ⌃ set a temperature higher than that of the room..

To optimize the function of the Air conditioner adjust the temperature (1), the speed (2) and the direction of the air flow (3) by pressing the button indicated

⚠️

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.

(1)

(2)

(3)
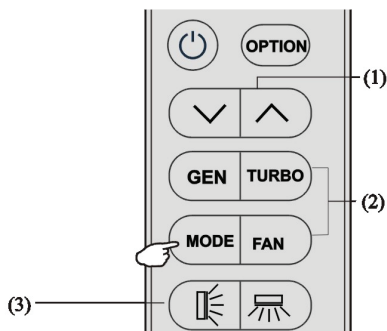
DRY MODE

DRY

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

To set the DRY mode , Press MODE until DRY appears in the display . An automatic function of alternating cooling cycles and air fan is activated.

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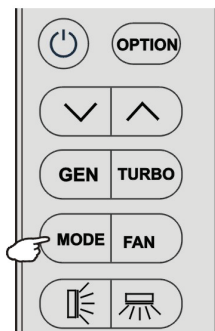
REMOTE CONTROL

FAN MODE(Not FAN button)

FAN

The air conditioner works in only ventilation.

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

To optimize the function of the air conditioner, adjust the temperature(1), the speed (2) and the direction of the air flow (3) by pressing the buttons indicated.
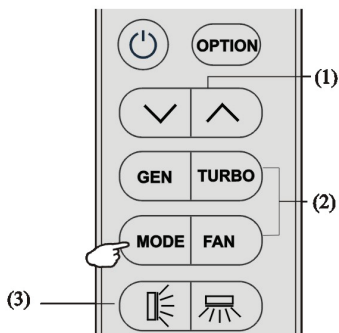
AUTO MODE

AUTO　　Automatic mode.

To activate the AUTO mode of operation, press the MODE button on the remote controller until the symbol AUTO appears on the display.

In AUTO mode the run mode will be set automatically according to the room temperature.

To optimize the function of the air conditioner, adjust the temperature(1), the speed (2) and the direction of the air flow (3) by pressing the buttons indicated.

(1)

(2)

(3)

DISPLAY function (Indoor display)

DISPLAY　　Switch on/off the LED display on panel

Press OPTION at the fist time , select the DISPLAY by pressing the button∧ or∨until symbol DISPLAY is flashing; Press OPTION again to switch off the LED display on the panel, and DISPLAY appears on the remote controller display. Do it again to switch on the LED display.
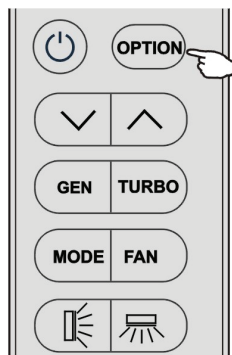
SLEEP function

SLEEP

Press OPTION at the first time , select the SLEEP by pressing the button∧ or∨ until symbol SLEEP is flashing; Press OPTION again to activate the SLEEP function, and SLEEP appears on the display.
Do it again to deactivate this function.
After 10 hours running in sleep mode, the air conditioner will change to the previously set mode.

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REMOTE CONTROL

GEN function (Optional)

| GEN | The air conditioner works in GEN mode |

Through GEN mode,you can choose the current level of the unit.There are three levels (L1,L2,L3) in this mode, and the current increases in turn.

To activate GEN function,pressing the button GEN and the unit current level will cycle as below
OFF→L3→L2→L1 "
To cancel this function,press the GEN until code OFF appers on the display.

* If the indoor unit displays "0A", please use the remote to raise the operating gear of the GEN mode, and the compressor will restart after stopping for 3 minutes.
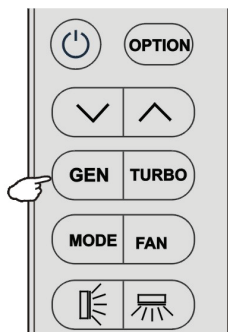
ECO function

| ECO |

In this mode the appliance automatically sets the operation to achieve energy savings.

1. Press the "ON / OFF" button to turn on appliance and select a COOLING / HEATING mode.
2. Press the "ECO" button, the appliance will run in ECO mode.
3. Pressing the "ECO" button again will cancel the mode, "ECO" will no longer be shown on the LCD screen.

NOTE:
The ECO function is available in COOLING and HEATING modes.
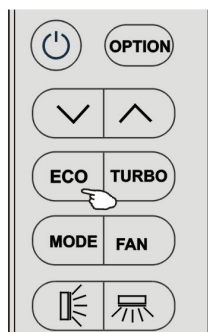
Turbo function

To activate turbo function,pressing the button TURBO or pressing the button FAN until symbol   appears on the display.
To cancel this function, pressing the FAN to switch other fan speed or pressing the TURBO button again.

In AUTO/HEAT/COOL/FAN mode,
When you select TURBO feature, it will use the highest fan setting to blow strong airflow.

13
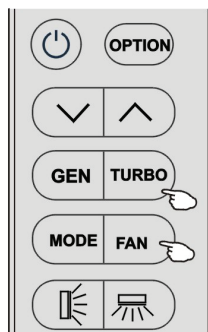
REMOTE CONTROL

TIMER function
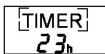
| TIMER |
| 23h |

To set the automatically switch-on /off
of the air conditioner

Timer setting/change/cancel:

1. Press OPTION at the first time , select the Timer by
   pressing the button∧ or∨until symbol TIMER
   is flashing;

2. Press OPTION again, the data symbol like 6.5 h
   and TIMER   will be flashing;

3. To set the timer or change the timer:
   (1)Press the button∧or∨to set the expected timer
      (Increase or decrease at half-hour intervals)
      the symbols h and TIMER both are flashing.
   (2) Press OPTION or waiting for 5 seconds without any
      operation to confirm the timer , the pre-setting
      timer like 6.5 h and symbol TIMER will be on the display.

4. To cancel the timer(if TIMER is on)
   Repeat step 1, step 2, then press OPTION or waiting for 5
   seconds without any operation to cancel the timer .

A sample for the Timer-on as Figure1, Timer-off as Figure2

Note:
 All processing should be operated in 5 seconds,
 otherwise the processing will be cancelled.
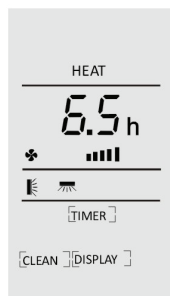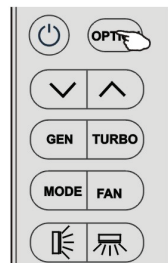
Figure1,Timer-on
when switch off

Figure2,Timer-off
when switch on

I FEEL function (Optional)

| I FEEL |

Press OPTION at the first time , select the I FEEL by
pressing the button∧ or∨ until symbol I FEEL
is flashing; Press OPTION again to activate the
I FEEL function, and I FEEL appears on the display.
Do it again to deactivate this function.
This function enable the remote control to measure
the temperature at its current location and send this
signal 7 times in 2 hours to the air conditioner to
enable the air conditioner to optimize the temperature
around you and ensure maximum comfort.
 It will automatically deactivate 2 hours later.

14
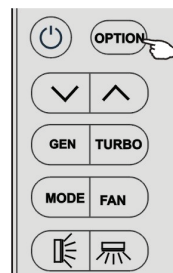
REMOTE CONTROL

MILDEW function (Optional)

┌ MILDEW ┐

Press OPTION at the first time , select the MILDEW by pressing the button∧or∨until symbol MILDEW is flashing; Press OPTION again to activate the MILDEW function, and ┌MILDEW┐ appears on the display.
Do it again to deactivate this function.
This function enable the air conditioner still blow airflow about 15 minutes to dry the indoor inner parts to avoid mildew, when the air conditioner is off.
Note: MILDEW function only available in DRY/COOLING mode

SELF-CLEAN function (Optional)

┌ CLEAN ┐   Switch off the air conditioner by pressing

Press OPTION at the first time , select the CLEAN by pressing the button∧or∨until symbol CLEAN is flashing; Press OPTION again to activate the CLEAN function, and ┌CLEAN┐ appears on the display.
Do it again to deactivate this function.

1. This function help carry away the accumulated dirt, bacteria, etc from the evaporator.
2. This function will run about 30 minutes, and it will return to the pre-setting mode .You can press ⏻ to cancel this function during the process. You will hear 2 beeps when it's finished or cancelled.
3. It's normal if there are some noise during this function process, as plastic materials expand with heat and contract with cold.
4. We suggest operate this function as the following ambient condition to avoid certain safety protection features.

Indoor unit	Temp<30℃
Outdoor unit	5℃<Temp<30℃

5. We suggest operate this function per 3 months.
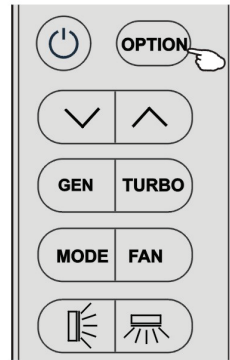
8℃ heating function (Optional)

┌ 8℃ H ┐   It can be set in Cool/Heat/Dry/Fan/Auto mode, but you need to turn off the unit to activate it.

1.Press OPTION at the first time , select the 8℃ H by pressing the button∧or∨until symbol 8℃ H is flashing; Press OPTION again to choose the 8℃ heating function, and ┌8℃ H┐ appears on the display.
Do it again or change the mode to deactivate this function.
2.If the air conditioner is standby, this function enable the air conditioner automatically start heating when the indoor temperature is equal or lower than 8℃, it will return standby if the temperature is equal or higher than 18℃.

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OPERATION INSTRUCTIONS

⚠ 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.

Fixed air conditioner:

MODE / Temperature	Heating	Cooling	Dry
Room temperature	0°C~27°C(32°F~80°F)	17°C~32°C(63°F~90°F)	
Outdoor temperature	-7°C~24°C(19°F~75°F)	T1 climate: 15°C~43°C(59°F~109°F)	
		T3 climate: 15°C~52°C(59°F~125°F)	

Inverter air conditioner:

MODE / Temperature	Heating	Cooling	Dry
Room temperature	0°C~27°C(32°F~80°F)	17°C~32°C(63°F~90°F)	
Outdoor temperature	-15°C~24°C(5°F~75°F) (Low temperature heating: -20°C~24°C (-4°F~75°F))	T1 climate: 15°C~50°C(59°F~122°F) (Low temperature cooling: -15°C~50°C(5°F~122°F))	
		T3 climate: 15°C~55°C(59°F~131°F)	

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.

⚠ **Characteristics of heating operation (applicable to Heat pump models)**
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.)

Current status	Operation	Respond	Enter mode
Standby	Press the emergency button once	It beeps briefly once.	Cooling mode
Standby (Only for Heat pump models)	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

control-box cover

ON/OFF
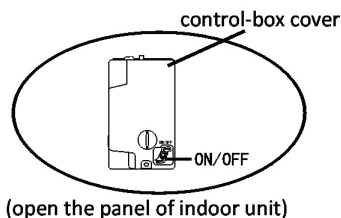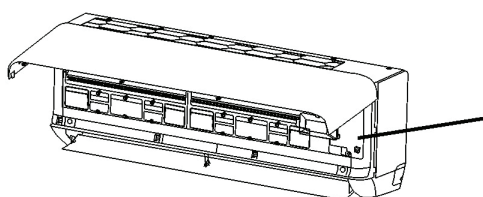
(open the panel of indoor unit)

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INSTRUCTIONS 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 4m^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 4m^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 are clear of any 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 any means to accelerate the defrosting process or clean the frost on your own. Follow the recommended guidelines from 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.

Caution: Risk of fire   Operating instructions   Read technical manual

INSTRUCTIONS FOR SERVICING(R32)

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 work that will produce heat. 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.

INSTRUCTIONS FOR SERVICING(R32)

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 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 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.

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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.

INSTRUCTIONS FOR SERVICING(R32)

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.
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 the 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.

INSTALLATION PRECAUTIONS(R32)

Important Considerations

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 GG.1 and GG.2)

The maximum charge and the required minimum floor area

m_1 = (4 m^3) x LFL , m_2 = (26 m^3)) x LFL, m_3 = (130 m^3)x LFL

Where LFL is the lower flammable limit in kg/ m^3,R32 LFL is 0.306 kg/ m^3.

For the appliances with a charge amount m_1 < M = m_2:

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

m_{max}= 2.5 x (LFL)$^{(5/4)}$ x h_0 x (A)$^{1/2}$

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

Where:

Table GG.1 - Maximum charge (kg)

Category	LFL (kg/m³)	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 GG.2 - Minimum room area (m²)

Category	LFL (kg/m³)	h_0(m)	Charge amount (M) (kg) Minimum room area (m²)						
			1.224kg	1.836kg	2.448kg	3.672kg	4.896kg	6.12kg	7.956kg
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

Installation Safety Principles

1. Site Safety

Open Flames Prohibited

Ventilation Necessary

2. Operation Safety

Mind Static Electricity

Must wear protective clothing and anti-static gloves

Don`t use mobile phone

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INSTALLATION PRECAUTIONS(R32)

3. Installation Safety

- Refrigerant Leak Detector
- Appropriate Installation Location

The left picture is the schematic diagram of a refrigerant leak detector.

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 until 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.

Suggested Tools

Tool	Picture	Tool	Picture	Tool	Picture
Standard Wrench		Pipe Cutter		Vacuum Pump	
Adjustable/ Crescent Wrench		Screw drivers (Phillips & Flat blade)		Safety Glasses	
Torque Wrench		Manifold and Gauges		Work Gloves	
Hex Keys or Allen Wrenches		Level		Refrigerant Scale	
Drill & Drill Bits		Flaring tool		Micron Gauge	
Hole Saw		Clamp on Amp Meter			

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INSTALLATION PRECAUTIONS

Pipe Length and Additional Refrigerant

Inverter Models Capacity (Btu/h)	9K-12K		18K-24K		30K-36K	
Length of pipe with standard charge	5m/16ft	5m/16ft	5m/16ft	5m/16ft	5m/16ft	5m/16ft
Length of pipe with standard charge (Like: North American, etc.)	7.5m/24ft	7.5m/24ft	7.5m/24ft	7.5m/24ft	7.5m/24ft	7.5m/24ft
Maximum distance between indoor and outdoor unit	15m/49ft	15m/49ft	20m/65ft	20m/65ft	30m/98ft	30m/98ft
Additional refrigerant charge	20g/m	15g/m	30g/m	25g/m	30g/m	25g/m
Max. diff. in level between indoor and outdoor unit	10m/32ft	10m/32ft	15m/48ft	15m/48ft	20m/65ft	20m/65ft
Type of refrigerant	R22/R410A	R32	R22/R410A	R32	R22/R410A	R32

ON-OFF Models Capacity (Btu/h)	9K-12K		18K-36K	
Lenght of pipe with standard charge	5m/16ft	5m/16ft	5m/16ft	5m/16ft
Maximum distance between indoor and outdoor unit	15m/49ft	15m/49ft	15m/49ft	15m/49ft
Additional refrigerant charge	20g/m	15g/m	30g/m	25g/m
Max. diff. in level between indoor and outdoor unit	5m/16ft	5m/16ft	5m/16ft	5m/16ft
Type of refrigerant	R22/R410A	R32	R22/R410A	R32

Torque Parameters

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

Dedicated Distribution Device and Wire for Air Conditioner

Min. Circuit Ampacity of Air Conditioner (A)	Minimum Wire Cross-sectional Area(mm^2)	Specification of Socket or Switch (A)	Fuse Specification (A)
≤8	0.75	15	15
＞8 and ≤10	1.0	15	15
＞10 and ≤15	1.5	20	25
＞15 and ≤24	2.5	25	40
＞24 and ≤28	4.0	35	45
＞28 and ≤32	6.0	40	55

⚠ Note: This table is only for reference, the installation shall meet the requirements of local laws and regulations.

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INDOOR UNIT INSTALLATION

Step1: 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.

1.11 For ETL certification area, Caution: Mount with the lowest moving parts at least 8 ft. (2.4 m) above floor or grade level.

Minimum Indoor Clearances
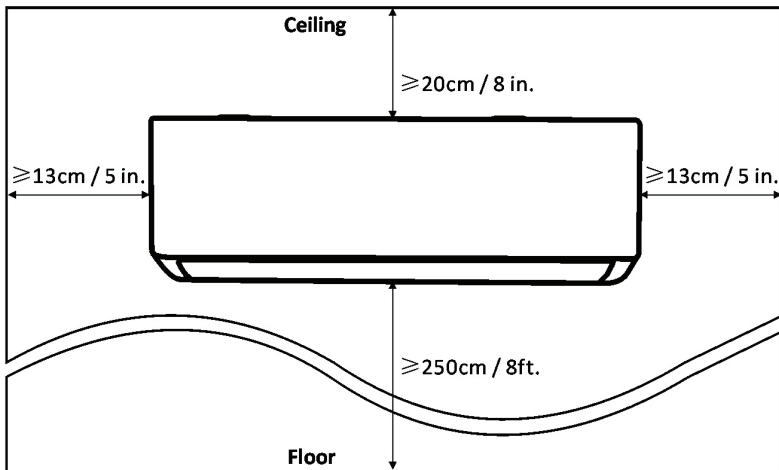
INDOOR UNIT INSTALLATION

Step2: Install Mounting Plate

2.1 Take the mounting plate from the back of indoor unit.
2.2 Ensure to meet the minimum installation dimension requirements as step 1, according to the size of mounting plate, determine the position and stick the mounting plate close to the wall.
2.3 Adjust the mounting plate to a horizontal state with a spirit level, then mark out the screw hole positions on the wall.
2.4 Put down the mounting plate and drill holes in the marked positions with drill.
2.5 Insert expansion rubber plugs into the holes, then hang the mounting plate and fix it with screws.

Reference screw positions

Spirit level
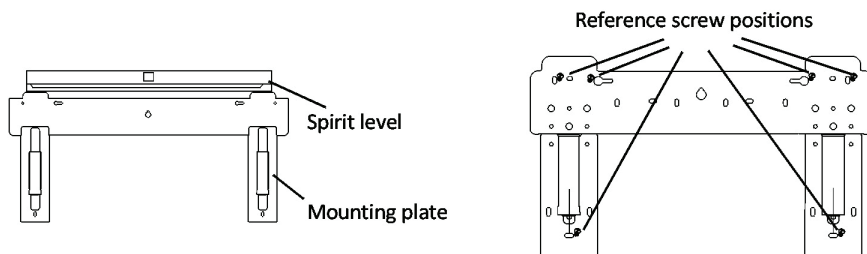
Mounting plate

Note:
(I) Make sure the mounting plate is firm enough and flat against the wall after installation.
(II) This figure shown may be different from the actual object, please take the latter as the standard.

Step3: 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 components.

70mm

Wall sleeve Cover
(Optional)

Wall sleeve
(Optional)

Outdoor

Indoor

5-10mm

Small bolique angle

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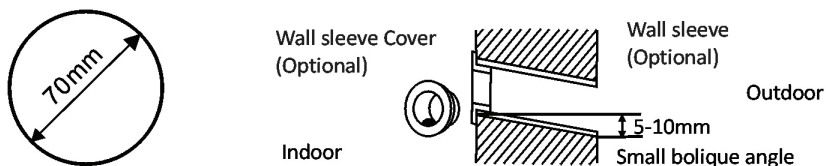
INDOOR UNIT INSTALLATION

Step4: 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.

1

2   3

Piping outlet

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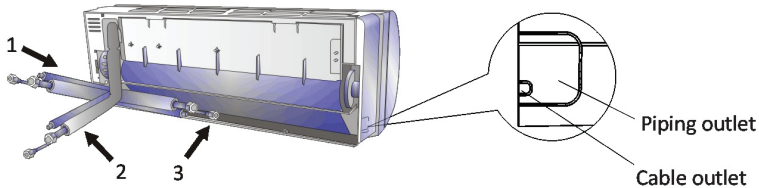
4.2 Bending the connecting pipes with the port facing up as shown in the figure.

YES   NO
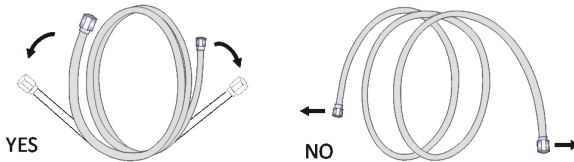
4.3 Take off the plastic cover in the pipe ports and take off the protective cover on the end of piping connectors.
4.4 Check whether there is any sundry on the port of the connecting pipe and make ensure the port is clean.
4.5 After align the center, rotate the nut of the connecting pipe to tighten 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; (Refer to the torque requirements table on section **INSTALLATION PRECAUTIONS**)
4.7 Wrap the joint with the insulation pipe.
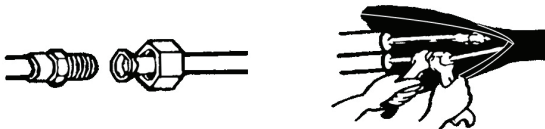
  Note: For R32 refrigerant, the connector should be placed outdoors.

Indoor   Outdoor

The connector should be outdoor

27
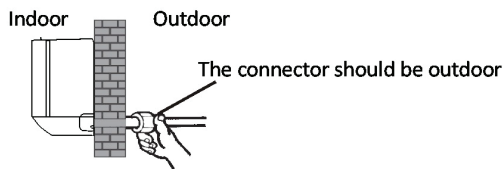
INDOOR UNIT INSTALLATION

Step5: 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.
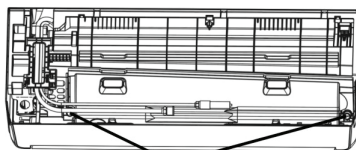
Drainage ports

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 drainage.
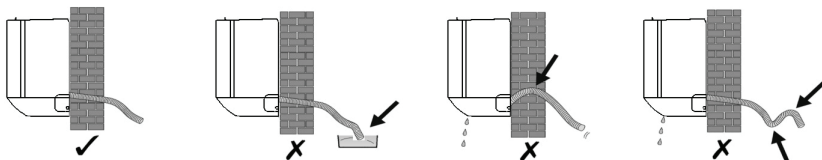
Step6: Connect Wiring

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.

Control box cover

Cable clamp

Wiring diagram

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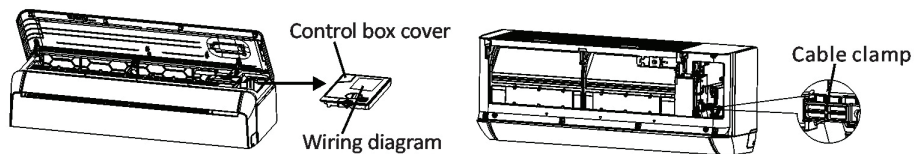
INDOOR UNIT INSTALLATION

Step7: 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.

7.1 Arrange the pipes ,cables and drainage
     hose well as the following picture.

Connecting wiring
Refrigerant piping
Insulation tape
Drainage hose
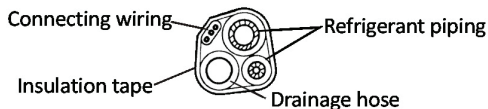
Note: (I) Make sure the drainage hose is at the bottom.
           (II) Avoid crossing and bending of parts.

7.2 Using the insulating tape wrap the refrigerant pipes, connecting wires and drainage hose
     together tightly.
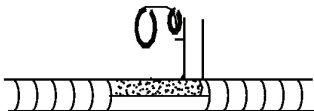
Step8: Mount Indoor Unit

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 pipes were already embedded in the wall, or if you want to connect the pipes and wires on the wall, do as below:
(I) Grab both ends of the bottom plate, apply a little outward force to take off the bottom plate.
(II) Hook the top of the indoor unit on the mounting plate without piping and wiring.
(III) 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.
(IV) Do the refrigerant piping, wiring, connect drainage hose, and wrap them as **Step 4 to 7**.
(V) Replace the bracket of mounting plate.
(VI) Push down the bottom of indoor unit to let the snaps onto the bottom hooks of the mounting
     plate, and make sure it is hooked firmly.
(VII) Replace the bottom plate of the indoor unit.
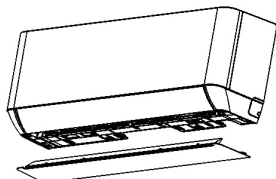
Take off the bottom plate   Unfold the bracket on the mounting plate
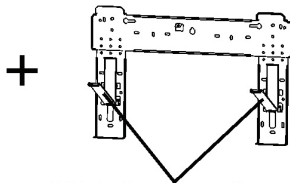
29
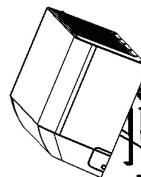
OUTDOOR UNIT INSTALLATION

Step1: 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.

Over 50cm/20in.

Over 30cm/12in.

Over 30cm/12in.

Over 50cm/20in.

Over 200cm/79in.
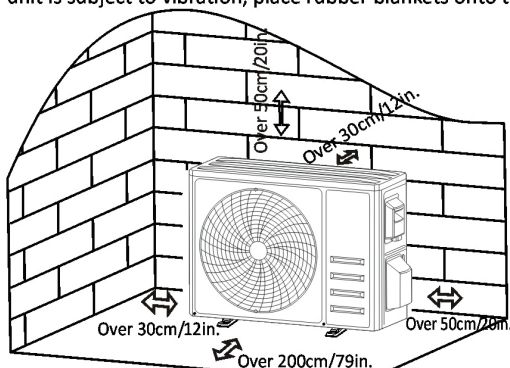
Step2: Install Drainage Hose

2.1 This step only for heat pump models or RCACs.

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.

Drainage joint   Drainage hose
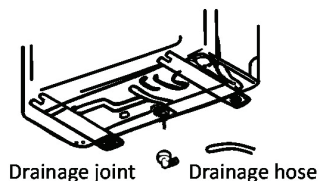
Step3: Fix Outdoor Unit

3.1 According to the outdoor unit 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. Follow the instruction of the wall-mounting bracket to fix the wall-mounting bracket on the wall, and then fasten the outdoor unit on it and keep it horizontal. The wall-mounting bracket must be able to support at least 4 times of the weight of outdoor unit.

Install 4 rubber blankets (Optional)

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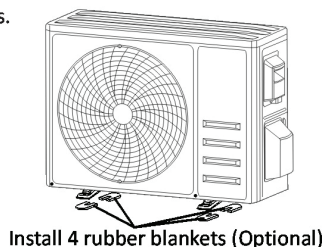
OUTDOOR UNIT INSTALLATION

Step4: 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.

Terminal block

Cable clamp

Wiring cover

Wiring diagram
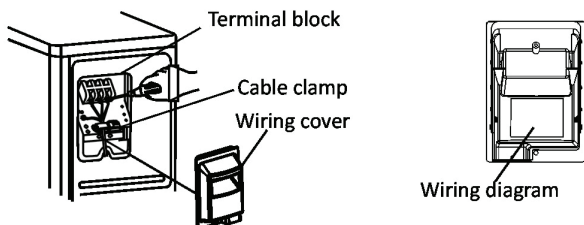
Step5: Connecting Refrigerant Pipe

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 Take off the plastic cover in the pipe ports and check whether there is any sundry on the port of
    the connecting pipe and make ensure the port is clean.
5.4 After aligning 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 to 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.
    (Refer to the torque requirements table on section **INSTALLATION PRECAUTIONS**)

Take down the valve cover

connection pipes

flare nuts

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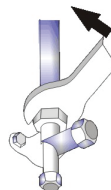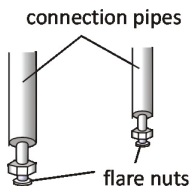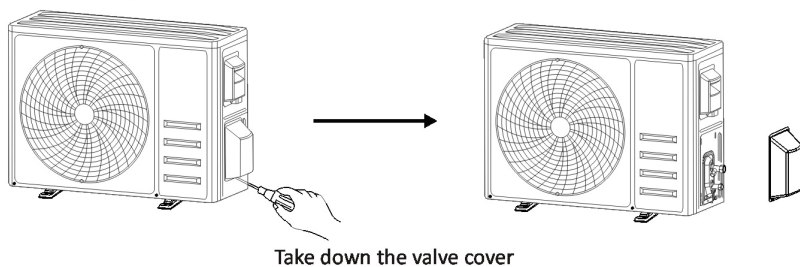
OUTDOOR UNIT INSTALLATION

Step6: 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.

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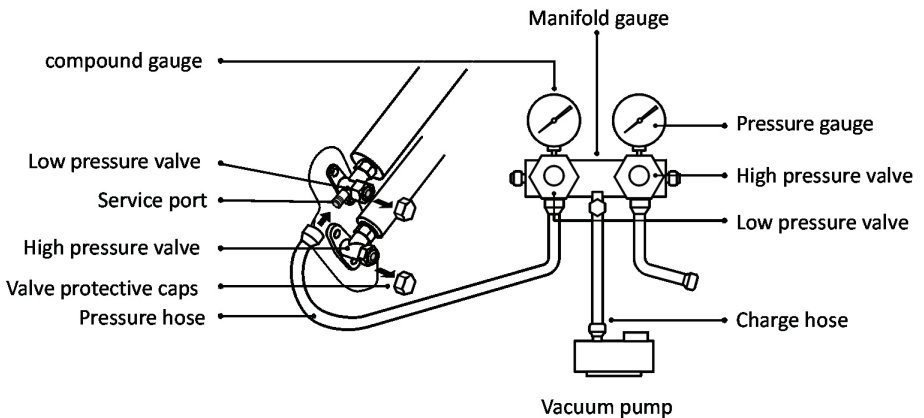
TEST OPERATION

Inspections Before Test Run

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.
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 pipe 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 COOLING and HEATING.
   In each mode set as below:
   COOLING-Set the lowest temperature
   HEATING-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 responds to the cooling and heating modes
   4.2 If the water drains properly from the drainage hose
   4.3 If the Louver and deflectors(optional) rotate properly
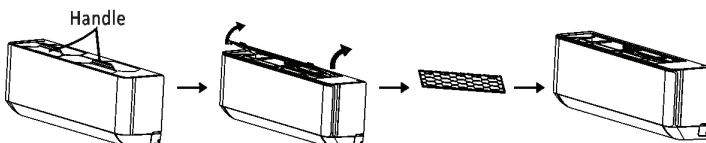
TEST OPERATION

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.
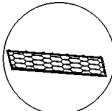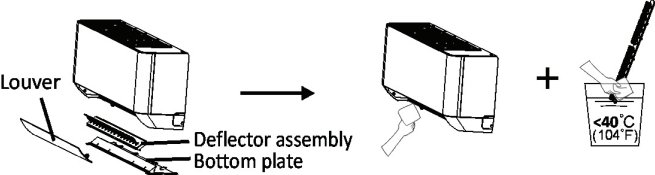
Note:
If the ambient temperature exceeds the range mentioned in the section OPERATION INSTRUCTIONS, and it can not run COOLING or HEATING mode, lift the front panel and refer to the emergency button operation to run the COOLING and HEATING mode.

MAINTENANCE

⚠ 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 and gently wipe the surface of the unit** Tip: Wipe frequently to keep air conditioner clean and good appearance .
Disassembly and assembly of filter	• Grasp the raised handle on the filter by hand, and then pull the filter out in the direction deviating from the unit, so that the upper edge of the filter is separated from the unit. The filter can be removed by lifting the filter upwards. • When installing the filter, first insert the lower end of the filter screen into the corresponding position of the unit, and then squeeze the upper end of the filter into the corresponding buckling position of the unit body.

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Clean the filter	Take out the filter from the unit → Clean the filter with soapy water and air dry it `<40°C (104°F)` → Opposite to the direction of taking out the filter — 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.
Cleaning of inner air duct	• First, loosen the knob on the middle of louver and bend the louver outwards to take it out. • Then, grasp both sides of bottom plate push downwards to take down the bottom plate. • Finally, loosen the buckle of deflector assembly with your thumb and take it out. • Wipe the air duct and fan assembly with a clean and wrung wet rag. • Clean the removed parts with soapy water and air dry it. • After cleaning, restore the removed parts in turn. Louver — Deflector assembly — Bottom plate → + `<40°C (104°F)`
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.

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TROUBLESHOOTING

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.

TROUBLESHOOTING

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

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.

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Wi-Fi Function User Manual

Wi-Fi

This description is applied to Air Conditioners with Wi-Fi function. Please read the manual carefully before using the product and keep it for future reference.

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Let's get start!

Operation guideline. Please take below simple guideline instruction as reference.

Operation Steps	Operation Items	New Account	Re-install APP (registered before)
Step 1	Download and Install APP	YES	YES
Step 2	Activate APP	YES	YES
Step 3	Registration Account	YES	NO
Step 4	Login	YES	YES
Step 5	Add Device to control	YES	Registered Device will remain.

Note：If you registered the account and added device before, when you re-install the APP again and login, the added device will remain .

FCC Caution (FCC ID: 2ANDL-TYWE1S)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.
The distance between user and device should be no less than 20cm.

1

CONTENTS

Wi-Fi Module specification and Operation guideline

1. Minimum specifications on a Smart phone:
   Android 5.0 version or higher
   IOS 9.0 version or higher

2. Basic parameters for Wi-Fi module

Parameters	Details
Network frequency	2.400 - 2.4835GHz
Standards of WLAN	IEEE 802.11 b/g/n (channels 1-14,channels 1-13 for EU/AU,channels 1-11 for US/CA)
Protocol stack support	IPv4/TCP/UDP/HTTPS/TLS/DNS
Security support	WEP/WPA/WPA2/AES128
Network type support	STA/AP/STA+AP

3. Wi-Fi module location and appearance in indoor unit
   Open the front panel, the Wi-Fi module is nearby the electric box cover or on the panel.

Connecting cable   Reset button

3
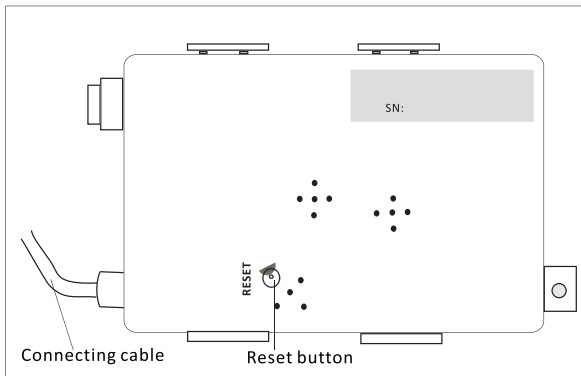
Download and Install the App

SmartLife-SmartHome

For Android smart phone
Method1: Please scan the QR code with a browser scanner, download and install the APP.
Method2: Open the Google "Play Store" on your smart phone and search
         "SmartLife-SmartHome", download and install the APP.

For IOS smart phone
Method1: Please scan the QR code and follow the tips to get into "AppStore", download
         and install the APP.
Method2: Open the Apple "AppStore" on your smart phone and search
         "SmartLife-SmartHome", download and install the APP.

▲ *Note:*
Please enable the permissions of Storage/Location/Camera for this APP when installing.
Otherwise it will have some problems when operating.

4

Activate APP

The first time the app is used, it will need activating.

1. Launch the APP "Smart Life" on your smart phone.

SmartLife-SmartHome

2. Method1: Tap button "Scan" and scan the right Activate QR code
   Method2: Tap "or Enter Activation Code" in bottom of the screen,
   then enter the activate code and tap "CONFIRM".

Scan the activation QR code
from instructions or device

Scan

or Enter Activation Code

or Enter Activation Code

＊＊＊＊＊＊

CANCEL CONFIRM
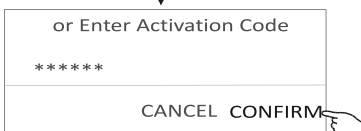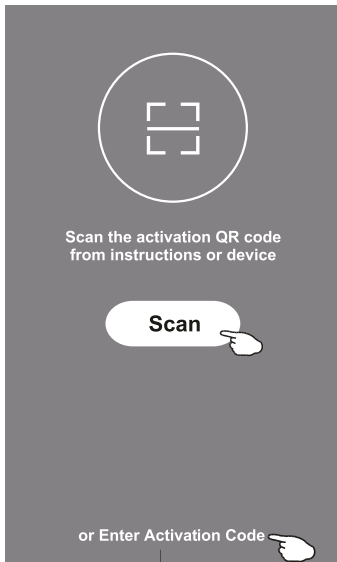
Activate QR code and activation code

Or Enter Activation Code

" MARVEL "

Note：Without the QR code or activation code,
you can't active the APP and using it,
please keep them safe.

5

Registration

1. If you don't have any account please tap button "Register".
2. Read the Privacy Policy and tap "Agree".

Register

Log in with Existing Account
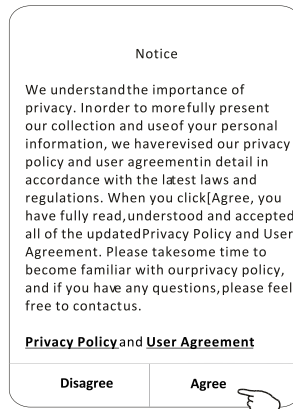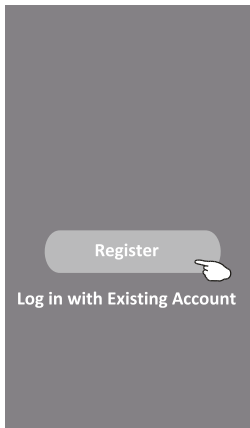
3. Tap">" and choose the country.
4. Enter your e-mail address.
5. Tap the button "Obtain verification code".
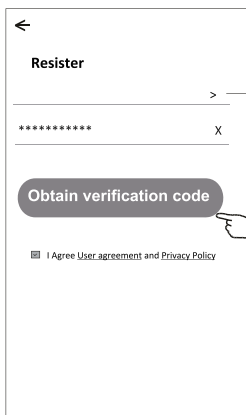
Search the country or slide the screen up/down to find and choose the Country.

Resister

>

*********** X

enter your e-mail address here

Obtain verification code

☑ I Agree User agreement and Privacy Policy

Country Choosed

Search

A

Afghanistan

Albania

Algeria

Angola

Argentina

Armenia

Australia

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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Registration

6. Enter the verification code you received from e-mail.
7. Set the Password with 6-20 characters including characters and numbers.
8. Tap "Done".

←

Enter verification code

* * * * * *

Verification code is sent to your email:
*****@****,Resend(55s)

←

Set Password

* * * * * *

6-20 characters for password, including character, numbers

Done

Login

1. Tap "Log in with existing account".
2. Enter your registered account and password.
3. Tap "Log in" button.

Register

Log in with Existing Account

←

Login

*******   >

****

******

Log in

Forgot password

enter your account here

enter the password

Login means that you agree with User Agreement and Privacy Policy

7

Login

The first time the APP is used, Create family is needed:
4. Tap "Create family".
5. Make name for the family.
6. Set the location.
7. Choose default rooms or add new rooms.
8. Tap "Done" and "Completed".

Turn on your smart life

Create family

Log out

Family created successfully

View family   Completed

Add family   Done

Family Name   My home
Family Location   Set location   >

Smart devices in rooms:

Living Room

Master Bedroom

Second Bedroom

Dining Room

Kitchen

Study Room

Add Room

You can change the room settings anytime

choose the recommended room
or make a new room, then tap
Done.

Add Room   Done

Room Name   *******
Recommended
Living Room   Master Bedroom
Second Bedroom   Dining Room
Kitchen   Study Room   Porch
Balcony   Kids Room   Closet

CANCEL   CONFIRM

Allow Smart Life to access this device's
location?

ALLOW ONLY WHILE IN USE

ALLOW ALL THE TIME

DENY

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
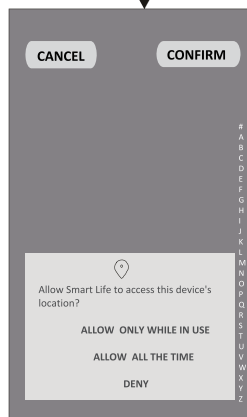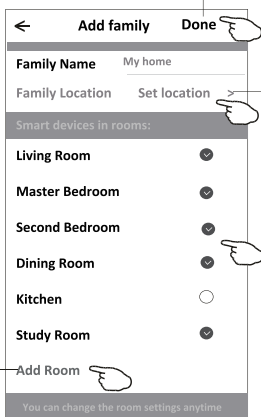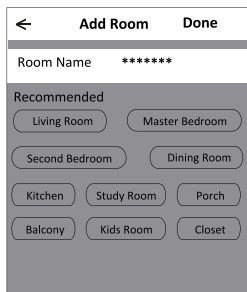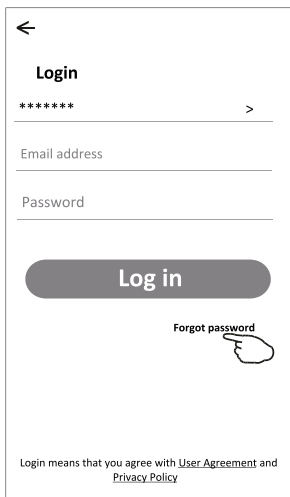
Note:
The app can open the map on your
phone and you can set the location
where you are.

8

Login

Forgot the password

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
   "Obtain verification code".

3. Enter the verification code received by your e-mail.

4. Set the new password and tap button "Done".

⇐

Login

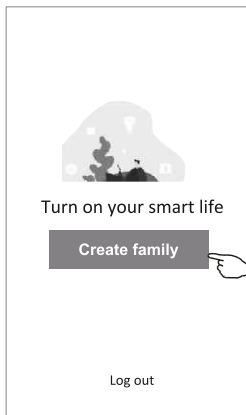*******   >
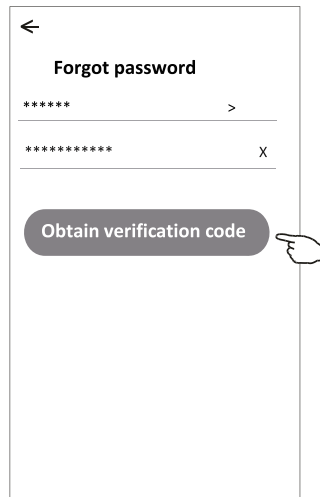
Email address

Password

Log in

Forgot password

Login means that you agree with User Agreement and
Privacy Policy

⇐

Forgot password

******   >

***********   X

Obtain verification code
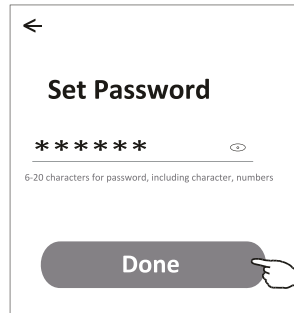
⇐

Enter verification code

＊ ＊ ＊ ＊ ＊ ＊

Verification code is sent to your email:
***********,Resend(55s)

⇐

Set Password

＊ ＊ ＊ ＊ ＊ ＊

6-20 characters for password, including character, numbers

Done

9

Add device

There are 2 methods to add the device.

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 "Air conditioner(BT+Wi-Fi)" logo.
4. Follow the comments on the next 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"

Work office ∨

Welcome Home
Set your home location for more
information

All Devices   Living Room   Master ···

No devices

Add Device

Home   Me

< **Add Manually**   Auto Scan

Air Conditioner
(BT+Wi-Fi)

Fresh Air
Purifier

Split Air
Conditioner

Security
Camera

Window Type
Air Conditioner

Portable Air
Conditioner

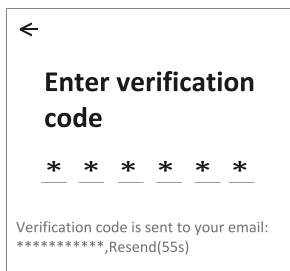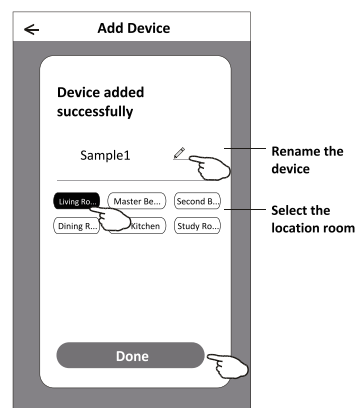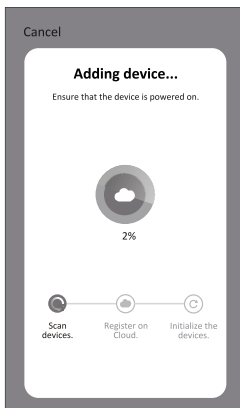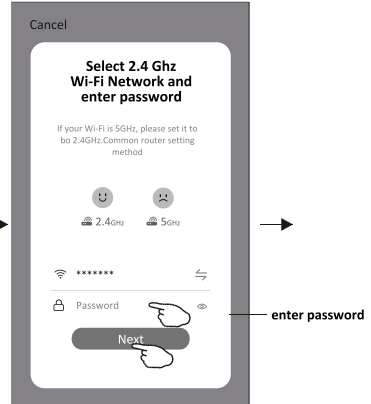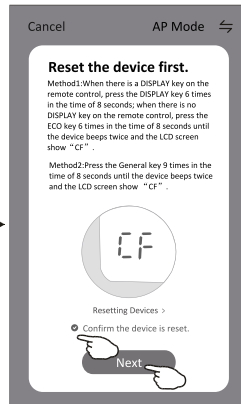Dehumidifier

Swimming
Pool H/P

Cancel   AP Mode ⇆

Reset the device first.

Method1:When there is a DISPLAY key on the
remote control, press the DISPLAY key 6 times
in the time of 8 seconds; when there is no
DISPLAY key on the remote control, press the
ECO key 6 times in the time of 8 seconds until
the device beeps twice and the LCD screen
show "CF".

Method2:Press the General key 9 times in the
time of 8 seconds until the device beeps twice
and the LCD screen show "CF".

CF

Resetting Devices ›

☑ Confirm the device is reset.

Next

Cancel

**Select 2.4 Ghz
Wi-Fi Network and
enter password**

If your Wi-Fi is 5GHz, please set it to
bo 2.4GHz.Common router setting
method

☺ 2.4GHz   ☹ 5GHz

⌢ ******* ⇆

🔒 Password   ⊚   → **enter password**

Next

Cancel

Adding device...

Ensure that the device is powered on.

2%

Scan
devices.

Register on
Cloud.

Initialize the
devices.

←   Add Device

**Device added
successfully**

Sample1   ✎   → **Rename the
device**

Living Ro...   Master Be...   Second B...
Dining R...   Kitchen   Study Ro...
                                      → **Select the
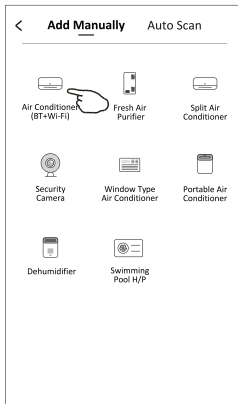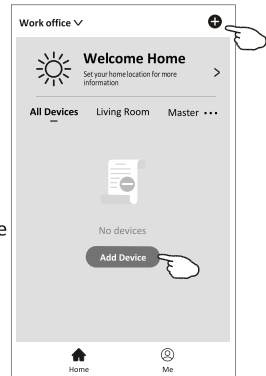location room**

Done

10

Add device

There are 2 methods to add the device.
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 "Air conditioner(BT+Wi-Fi)" logo.
4. 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".
5. Input the password of the Wi-Fi which the same as your smart
   phone connected, then tap "Next".
6. Read the instruction carefully and tap "Connect now".
7. In the network setting screen, select "SmartLife-****", and tap"⇦ ".
8. 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"
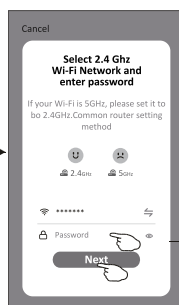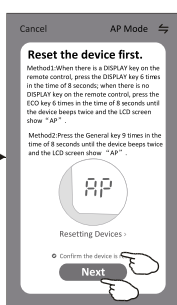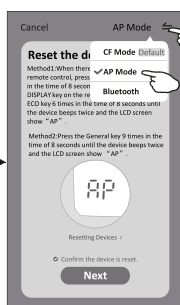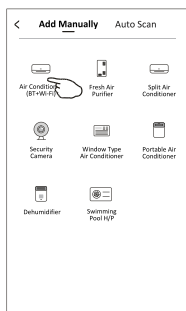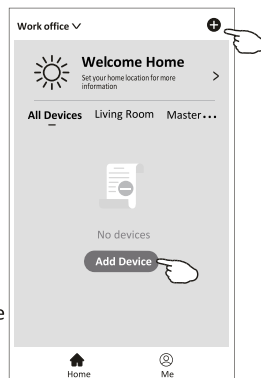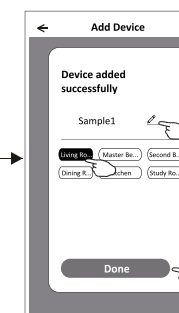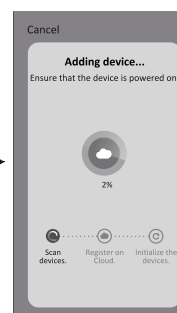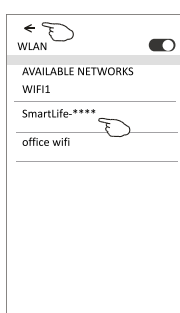   "AP" means "connected to the server"

Work office ∨

Welcome Home
Set your home location for more
information

All Devices　Living Room　Master...

No devices

Add Device

Home　　　Me

< 　Add Manually　　Auto Scan

Air Conditioner　Fresh Air　Split Air
(BT+Wi-Fi)　Purifier　Conditioner

Security　Window Type　Portable Air
Camera　Air Conditioner　Conditioner

Dehumidifier　Swimming
Pool H/P

Cancel　　AP Mode ☰
CF Mode Default
✔AP Mode
Bluetooth
Reset the de
Method1:When there
remote control, press
in the time of 8 secon
DISPLAY key on the re
ECO key 6 times in the time of 8 seconds until
the device beeps twice and the LCD screen
show "AP".
Method2:Press the General key 9 times in the
time of 8 seconds until the device beeps twice
and the LCD screen show "AP".

ЯP

Resetting Devices >
☑ Confirm the device is reset.
Next

Cancel　　AP Mode ☰
Reset the device first.
Method1:When there is a DISPLAY key on the
remote control, press the DISPLAY key 6 times
in the time of 8 seconds; when there is no
DISPLAY key on the remote control, press the
ECO key 6 times in the time of 8 seconds until
the device beeps twice and the LCD screen
show "AP".
Method2:Press the General key 9 times in the
time of 8 seconds until the device beeps twice
and the LCD screen show "AP".

ЯP

Resetting Devices >
☑ Confirm the device is
Next

Cancel

**Select 2.4 Ghz
Wi-Fi Network and
enter password**

If your Wi-Fi is 5GHz, please set it to
bo 2.4GHz.Common router setting
method

📶 2.4GHz　　📶 5GHz

📶 ٭٭٭٭٭٭٭

🔒 Password

Next

enter password

<

**Connect phone to device's
wifi hotspot**

1.Please connect your phone to the hotspot
shown below

✔ SmartLife-XXXX

2.Return to this app and continue adding
devices

Connect now

Confirm hot spot connector...

⇦
WLAN

AVAILABLE NETWORKS
WIFI1

SmartLife-****

office wifi

Cancel

Adding device...
Ensure that the device is powered on.

2%

Scan　Register on　Initialize the
devices.　Cloud.　devices.

⇦　　Add Device

**Device added
successfully**

Sample1 ✎

Living Ro...　Master Be...　Second B...
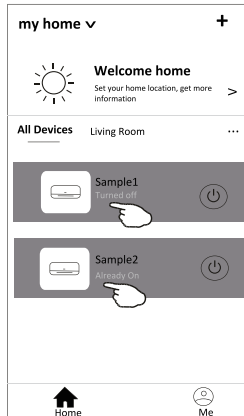Dining R...　Kitchen　Study Ro...

Done

Rename the
device

Select the
location room

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marvel Tech

Air conditioner control
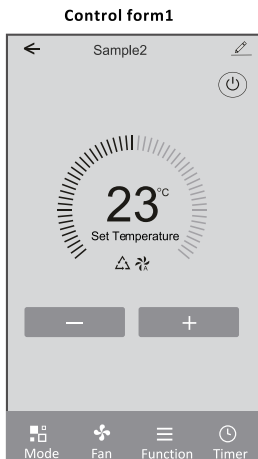
The device control screen will pop up automatically after adding the device.
The device control screen will pop up manually by tapping the device name on the home screen.
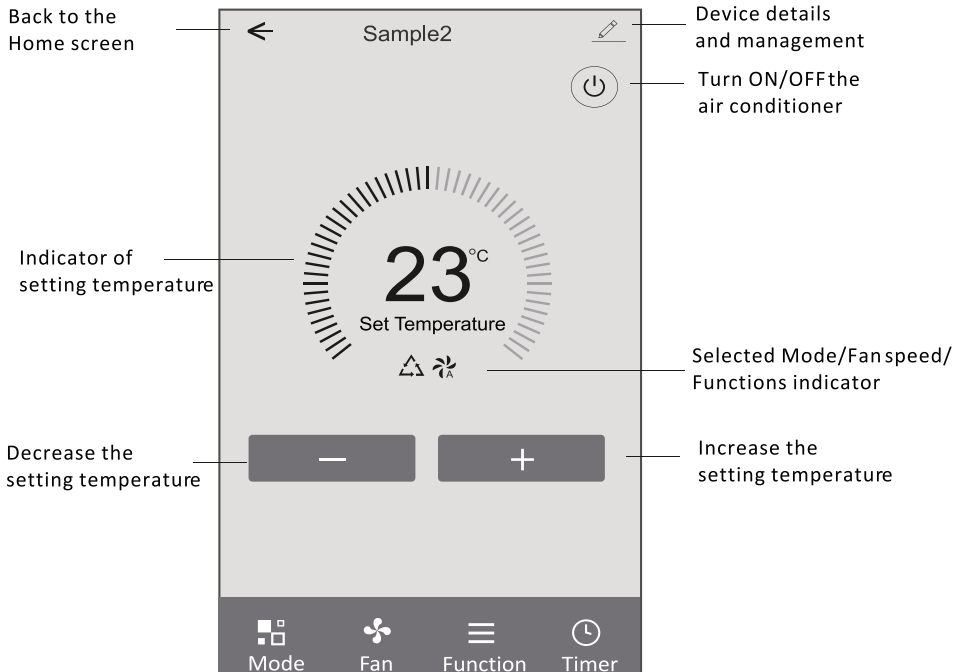

Note:
There are two different control forms base on different software or Wi-Fi module firmware.
Please read the manual carefully base on the real control interface.

Control form1

Control form2

Air conditioner control

Control form1

The main control interface

Back to the
Home screen

Indicator of
setting temperature

Decrease the
setting temperature

Device details
and management

Turn ON/OFF the
air conditioner

Sample2

23°C

Set Temperature

Selected Mode/Fan speed/
Functions indicator

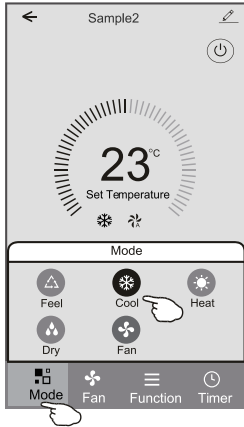Increase the
setting temperature

Mode   Fan   Function   Timer

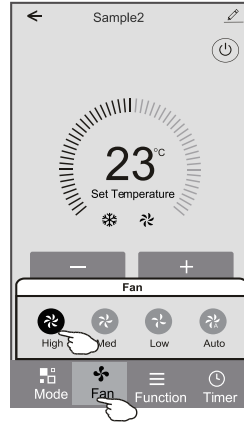marvel Tech

Air conditioner control

Control form1-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.

Control form1-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.

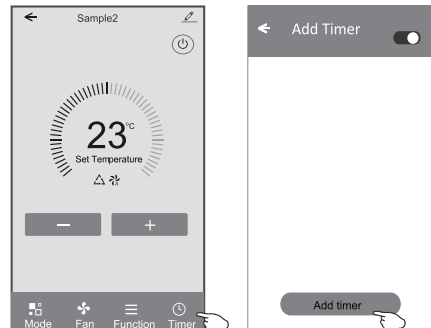

Control form1-Function setting

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.

Control form1-Timer adding

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

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Air conditioner control

Control form1-Timer adding

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.

Timer on　　　　**Timer off**

Timer cancel — Cancel　　Add Timer　　Save

12	07
13	08
14	09

Hour setting — 15　　10

16	11
17	12
18	13

Timer Off

Timer On　　　　　　　☑

Mode setting — Mode　　　　　Cool ❯

Fan Speed setting — Fan　　　　　Auto ❯

Temperature setting — Set Temperature　　23℃ ❯

Function　　　　　　❯

Cancel　　Add Timer　　Save — Timer submit

12	25
13	26
14	27

15　　28 — Minute setting

16	29
17	30
18	31

Select days to use Smart Mode

(Mon) (Tues) (Wed) (Thur) (Fri) (Sat) (Sun) — Weekly setting

Timer Off　　　　　　　☑ — Timer ON/OFF setting

Timer On

Control form1-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.
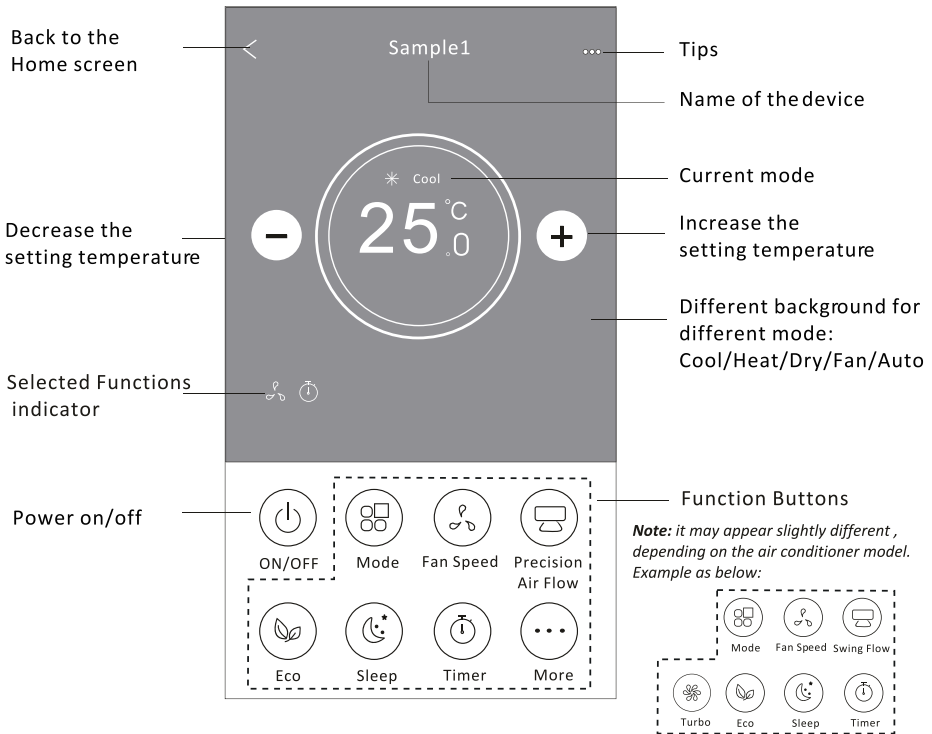
← 　Add Timer

Timer accuracy is -/+ 30 seconds

12:20
Once
Timer:Off

12:20

Mon, Tue, Wed, Thurs

Timer: On 16℃ Cool Turbo UP-DOWN

Remove Timer

Remove the timer?

　　　　CANCEL CONFIRM

Add timer

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marvel Tech

Air conditioner control

Control form2

The main control interface

Back to the
Home screen

Decrease the
setting temperature

Selected Functions
indicator

Power on/off

Sample1

Cool

25 °C
.0

ON/OFF   Mode   Fan Speed   Precision
Air Flow

Eco   Sleep   Timer   More

Tips

Name of the device

Current mode

Increase the
setting temperature

Different background for
different mode:
Cool/Heat/Dry/Fan/Auto

Function Buttons

*Note: it may appear slightly different ,
depending on the air conditioner model.
Example as below:*
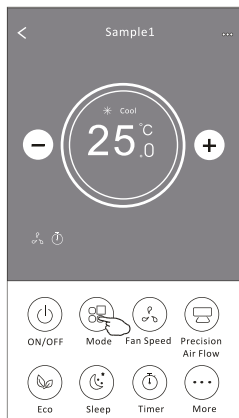
Mode   Fan Speed   Swing Flow

Turbo   Eco   Sleep   Timer

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Air conditioner control

Control form2-Mode setting

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.
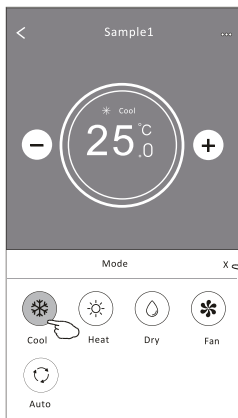
Note: please read the details of each mode in the user manual to control more comfortable.

Control form2-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.
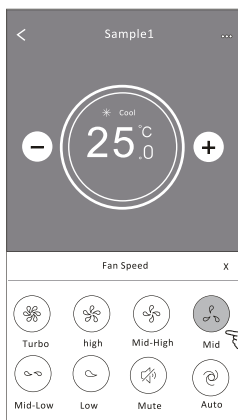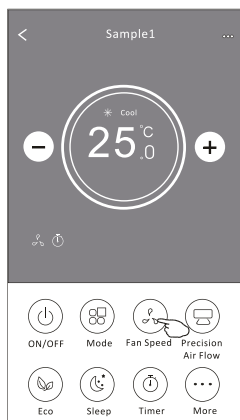
Mode	Fan Speed
Cool	All speeds
Fan	All speeds
Dry	
Heat	All speeds
Auto	All speeds

Note:
Fan Speed can't be adjusted on Dry mode .

Note: Fan Speed screen may appear slightly different , depending on the air conditioner model.
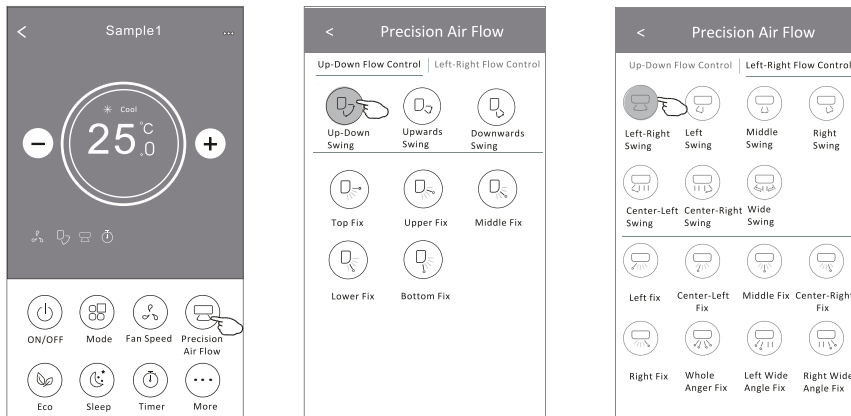Example as below:

17
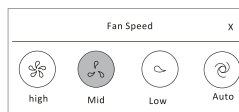
Air conditioner control

Control form2-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.
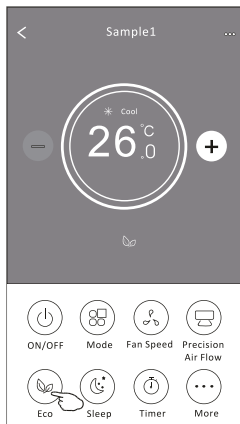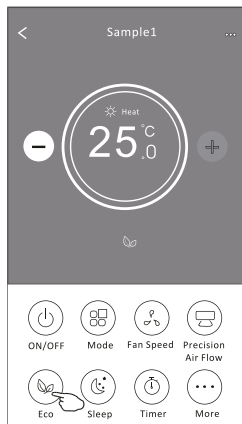

Note: The Main control screen and Air Flow screen may appear slightly different, depending on the air conditioner model.Example as below:

18
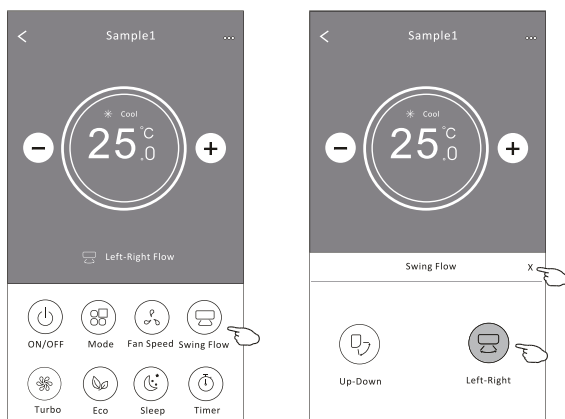
Air conditioner control

Control form2-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℃.
   In heating mode, the new setting temperature will ⩽ 25℃.

Mode	ECO enabled
Cool	Yes
Fan	
Dry	
Heat	Yes
Auto	

ECO is disabled on Fan/ Dry/Auto mode .

Note: The Main control screen and ECO control method may appear slightly different, depending on the air conditioner model. Example as below:
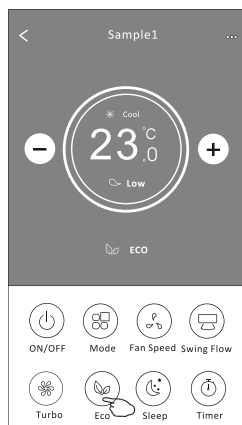
Note:
ECO is disabled on Turbo/Sleep mode too
for some air conditioner model.

Air conditioner control

Control form2-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.

Mode	Sleep enabled
Cool	Yes
Fan	
Dry	
Heat	Yes
Auto	

Sleep is disabled on Fan/ Dry/Auto mode .

Note:
The Main control screen may appear slightly different ,depending on the air conditioner model.
Example as below:
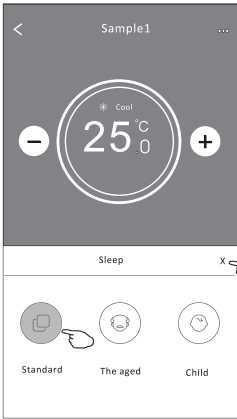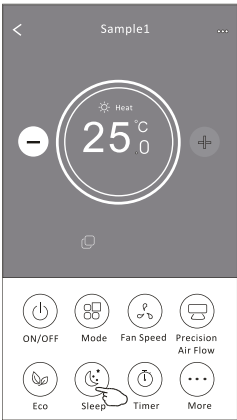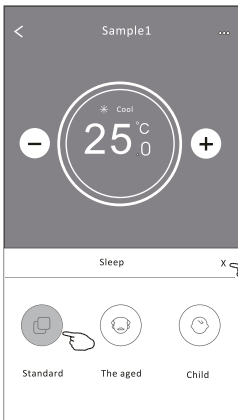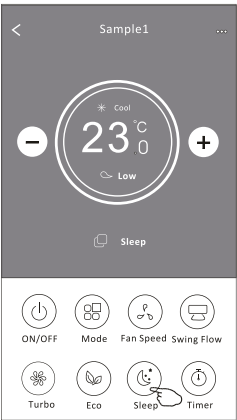
Note:
Sleep is disabled on Turbo/Sleep mode too
for some air conditioner model..

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Air conditioner control

Control form2-Timer(on) 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.
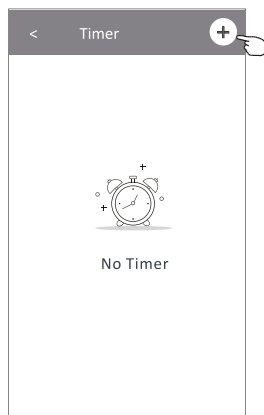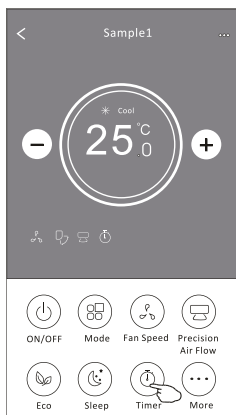
<table>
<tr><td><   Sample1   ...</td><td><   Timer   +</td></tr>
</table>

Cool
25 °C
.0

ON/OFF Mode Fan Speed Precision Air Flow

Eco Sleep Timer More

<   Timer   +

No Timer

Slide up or down to select time

<   Timer

19   27
20   28
21 : 29
22   30
23   31

Repeat   **Monday....>**

Switch   **OFF>**

Save

Tap repeat> then tap your desired repeat days or Once, then tap Confirm your selection.

Cancel	Repeat	Confirm
Once		
Monday		√
Tuesday		√
Wednesday		√
Thursday		√
Friday		√
Saturday		
Sunday		

Tap Switch> then slide the screen to choose ON and Confirm.

Cancel	Switch	Confirm
	ON	
	OFF	

<   Timer   +

21:29
OFF, Weekday

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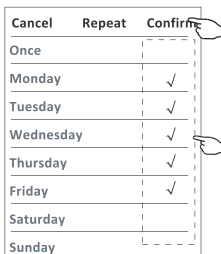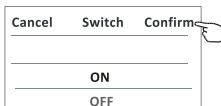
Air conditioner control

Control form2-Timer(off) setting

1. Tap the Timer button.
2. Tap + in the upper right corner of the Timer main screen.
3. Set the Time/Repeat Date/Switch(ON)/Temperature/Mode/
   Fan speed/Air Flow as your desired and then tap Save.
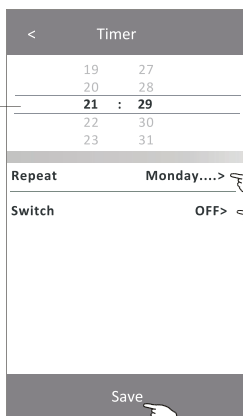4. The timer will appear on the Timer main screen.
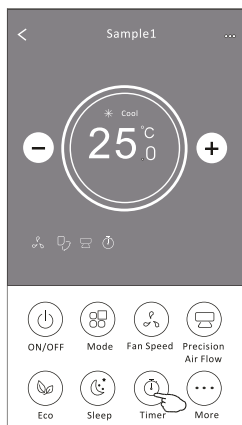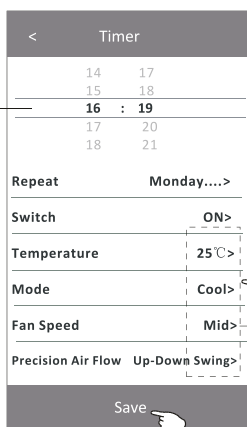
Tap repeat > then tap your desired
repeat days or Once, then tap
Confirm your selection.

Slide up or down
to select time
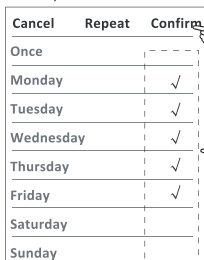
Tap Switch > then slide the
screen to choose ON
and Confirm.
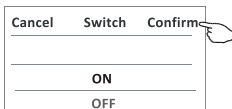
Tap Temperature/Mode/Fan Speed/
Air Flow > one by one then set as your
desired as mentioned on the previous
chapter and tap Confirm the setting.

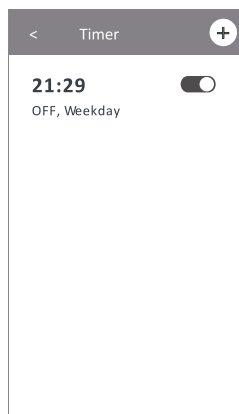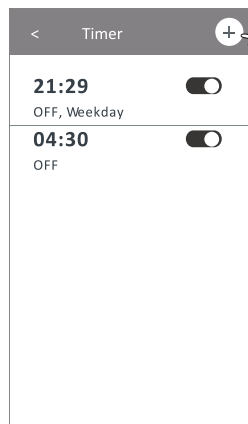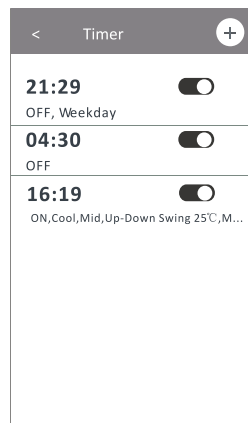## Air conditioner control

Control form2-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.

<	Timer	+
21:29		
OFF, Weekday		
04:30		
OFF		
16:19		
ON,Cool,Mid,Up-Down Swing 25℃,M...		

<	Timer	+
21:29		
OFF, Weekday		
04:30		
OFF		
16:19		
ON,Cool,Mid,Up-Down Swing 25℃,M...		
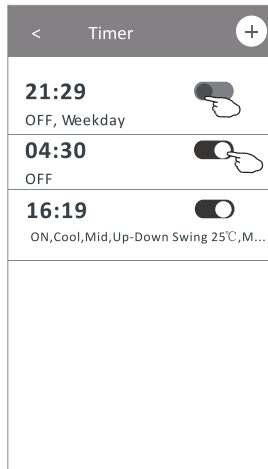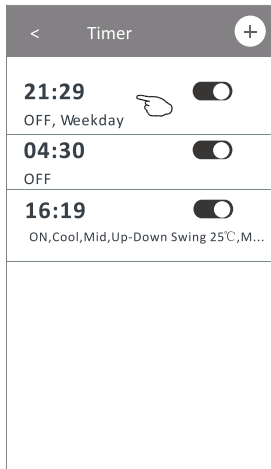
Slid left to disable the Timer.

Slid right to enable the Timer.

<	Timer	+
29		Delete
kday		
04:30		
OFF		
16:19		
ON,Cool,Mid,Up-Down Swing 25℃,M...		

23

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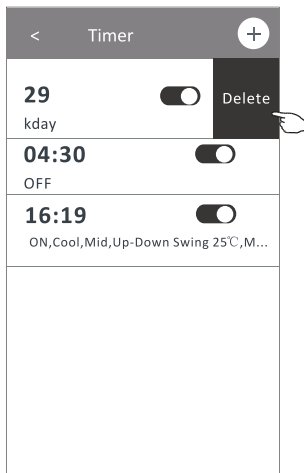
Control form2-More functions

1.Tap the More button to operate additional functions if it appears on the screen.
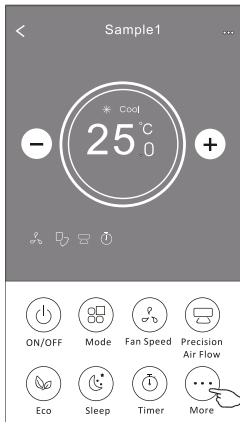
Note:
Some air conditioner model
don't have the more button.
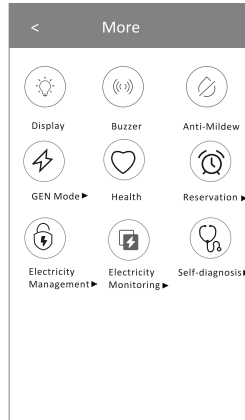
Note: The appearance maybe different , some icons will be hidden if the air conditional do no have this function or do not enable on the current mode.

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

3. Tap the " Buzzer " 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.

GEN Mode   X

30%   50%   80%

LV1   LV2   LV3

24
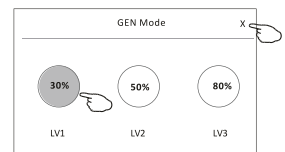
Air conditioner control

Control form2-More functions

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

Electricity
Monitoring ▶
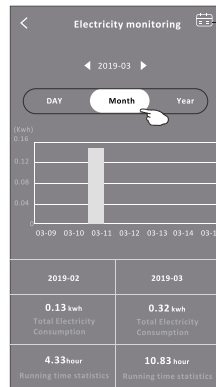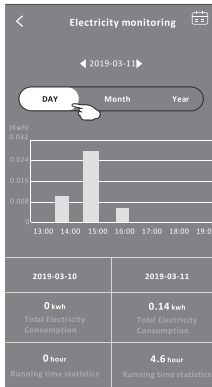
Electricity monitoring

◀2019-03-11▶

| DAY | Month | Year |

(Kwh)
0.032
0.024
0.016
0.008
0
13:00 14:00 15:00 16:00 17:00 18:00 19:00

2019-03-10	2019-03-11
0 kwh Total Electricity Consumption	**0.14** kwh Total Electricity Consumption
0 hour Running time statistics	**4.6** hour Running time statistics

Electricity monitoring

◀ 2019-03 ▶

| DAY | Month | Year |

(Kwh)
0.16
0.12
0.08
0.04
0
03-09 03-10 03-11 03-12 03-13 03-14 03-15

2019-02	2019-03
0.13 kwh Total Electricity Consumption	**0.32** kwh Total Electricity Consumption
4.33 hour Running time statistics	**10.83** hour Running time statistics

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

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

Reservation▶

<   Reservation

14   17
15   18
16   :   19
17   20
18   21

Repeat setting	Monday.... >
Temperature	25℃>
Mode	Cool>
Fan Speed	Mid>
Precision Air Flow	Up-Down Swing>

Save

<   Reservation   +

16:19:00
ON,Cool,Mid,Up-Down Swing 25℃,M...

After the reservation is set up, the air conditioner will automatically reach your set requirement at your appointment time.

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Air conditioner control

Control form2-More functions

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.

Self-diagnosis ▶

Self-diagnosis

48%
Checking

Cancel

Self-diagnosis

100%
Complete

Error code: E0
Indoor and outdoor
communication failure

OK
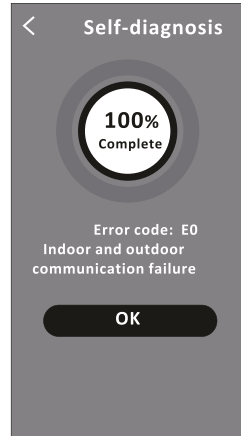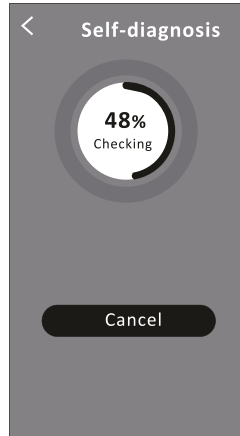
12. Tap the "   ❋   " button if it is available on the screen.
       Photosensitive

This function allow the air conditioner to turn on/off the display automatically according to the
light intensity.

13. Tap the "   " button if it is available on the screen.
       Soft Wind

In this function, the air conditioner will blow soft airflow through the micro holes on the deflector.

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Air conditioner control

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.

Control form1   Control form2

Sample2   Sample1

23 °C
Set Temperature

Mode   Fan   Function   Timer

Cool
25 °C
.0

ON/OFF   Mode   Fan Speed   Precision
                              Air Flow

Eco   Sleep   Timer   More

Details of device	
Information	
Modify Device Name	*** >
Device Location	Dining Room >
Check Device Network	Check Now >
Supported Third-part Control	
amazon alexa Google Assistant	
Others	
Device Sharing	>
Device Info	>
Feedback	>
Check for Firmware Update	>
Remove Device	

Tap to change the device location to another room

Tap to check the network status

Tap to check the network status

Tap to got the instruction for connecting the amazon alexa or Google Assistant voice controller

Tap to sharing the device to other account

Tap to check the Virtual ID/Wi-Fi name/IP address MAC address/Time Zone/Wi-Fi single strength

Feed back the problems or some suggestions to the APP administrator.

Check and update the firmware

Tap to remove the device and the device will be reset automatically once be deleted.

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Device details and management
How to share the devices to other accounts?
1. Tap "Device Sharing" and pop up Device Sharing screen.
2. Tap "Add Sharing".
3. Select the region and enter the account which you want to sharing.
4. Tap "Completed", 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.

← Details of device
Information
Modify Device Name *** *** >
Device Location   Dining Room >
Check Device Network Check Now >
Supported Third-part Control
amazon alexa   Google Assistant
Others
Device Sharing   >
Create Group   >
Device Info   >
Feedback   >
Check for Firmware Update   >
Remove Device

← Details of device
It is recommended to set permanent resident as family member to control the device **Family Settings**
Adding sharing

← Add Sharing   Completed
Region   China +86   >
Account   ***********
number

← Details of device
It is recommended to set permanent resident as family member to control the device **Family Settings**
Sharing List
Alias name1
****
Adding sharing

Hold the bar about 3s then you can delete the sharing account.

my home ∨   +
Welcome home
Set your home location, get more information   >
All Devices   Living Room Master Bedroom···
Sample1
Turned off
Sample2
Already On
Home   Me

Hold on and slide down to refresh the device list

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Account management

Account Profile setting

my home ∨   **+**

Welcome home
Set your home location, get more   >
information

All Devices   Living Room   Master Bedroom •••

Sample1
Turned off

Sample2
Already On

Home   Me

Profile

Nick name
Account*****

Home Management   >

Message Center   >
Help Center   >
More Services   >

Settings   >

Home   Me
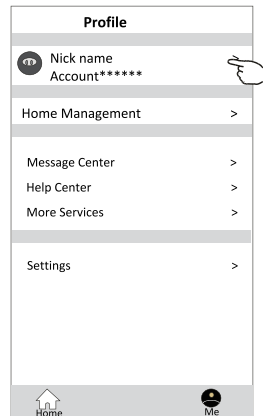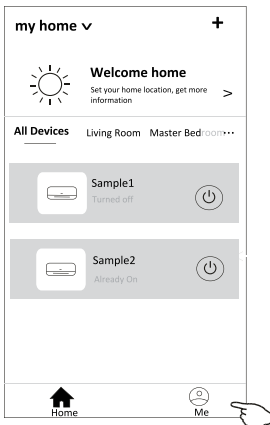
Change the nick
name of your account

Edit name

Account one

Cancel   Save

Profile

Profile Picture   >
Nickname   ******** >

Account Security   >

Time Zone   Universal >
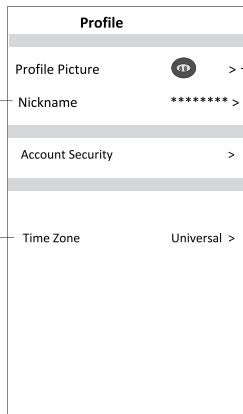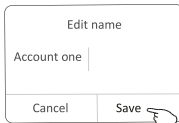
Select a picture for the
account from local album

Select the time zone

Account Security

Phone Number   ********
Location   China

Change Login Password   >
Pattern Unlock
Change Pattern Password   >

Deactivate Account   >

Change the password
like reset password on page7

Tap the switch to enable
or disable the Pattern password

Please carefully to
deactivate the account
for all data will be deleted.

Set a pattern password
for launching the APP

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Account management

Home(Family) management

1. Tap the name of home at the left upper corner of the Home Screen and select the Home Management. Or tap Me and tap Home Management.
2. Tap one of the families in the family list and get into Family Settings screen.

My Home ˅   **+**

Welcome home
Set your home location, get more information   **>**

All Devices   Living Room   Master Bedroom ···

Sample1
Turned off

Sample2
Already On

Home   Me

✓ My Home
   My Office

⚏ Home Management

Profile

Nick name   **>**
Account******

Home Management   **>**

Message Center   **>**
Help Center   **>**
More Services   **>**

Settings   **>**

Home   Me

⇐   **Home Management**

My Home   **>**
My Office   **>**

Add family

Note:
Tap "Add family"
and refer to page 6
to add a new family

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3. Set the family as the following indicators.
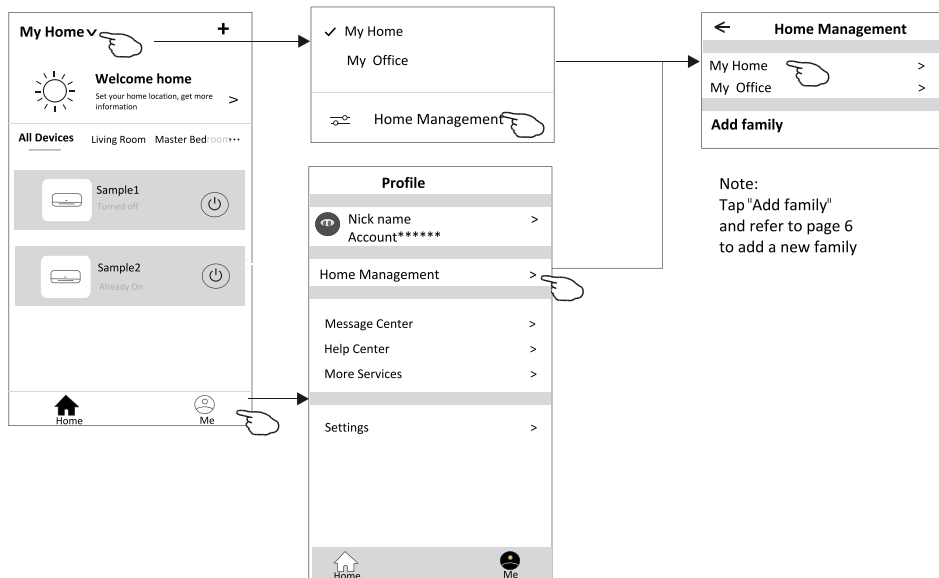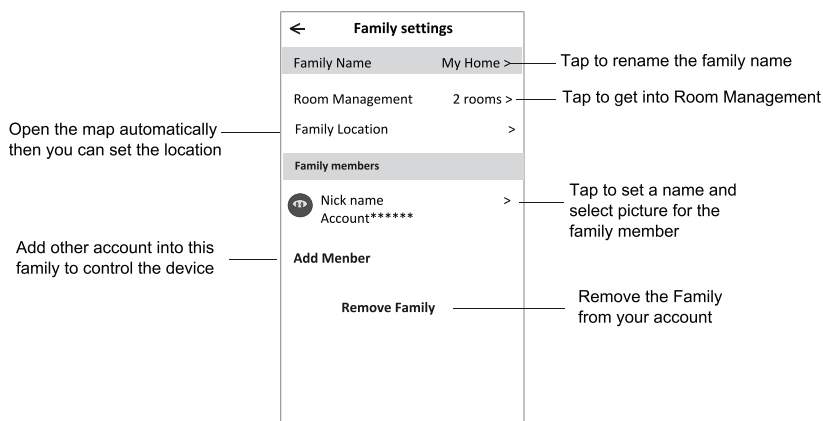
⇐   **Family settings**

Family Name   My Home >   — Tap to rename the family name

Room Management   2 rooms >   — Tap to get into Room Management

Family Location   >

Family members

Nick name   >   — Tap to set a name and
Account******   select picture for the
                                           family member
Add Menber

        Remove Family   — Remove the Family
                                         from your account

Open the map automatically — (Family Location)
then you can set the location

Add other account into this — (Add Menber)
family to control the device

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Notice

1. For technical update, there is maybe deviation of the actual items from what is on the manual. Please refer to your actual product and APP.
2. Smart air conditioner APP can be altered without notice for quality improvement and also be deleted depending on the circumstances of manufacturing firms .
3. In case Wi-Fi signal strength is weakened, smart App may be disconnected. So make sure the indoor unit near to wireless router.
4. DHCP server function should be activated for wireless router.
5. The internet connection may fail because of a firewall problem. In this case, contact your internet service provider.
6. For smart phone system security and network setting, make sure Smart air conditioner APP is trusted.

Trouble Shooting

Description	Analysis of cause
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 (WLAN module) is rebooted and app displays Device remove, ignoring this 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. (Notification 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. Smart Life 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.

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