Comfort Kool

SPLIT TYPE AIR CONDITIONER

INSTRUCTION MANUAL

This instruction manual contains important information and recommendations that we would ask you to comply with to obtain best results from air conditioner.

Thank you once again.

CONTENTS

* The design and specifications are subjectto change without prior notice for productimprovement. Consult with the sales agency or manufacturer for details.
* The shape and position ofbuttons and indicators may vary according to the model, buttheir function are the same.

SAFETY PRECAUTIONS

SAFETY RULES AND RECOMMENDATIONS FOR THE INSTALLER

1. Read this guide before installing and using the appliance.
2. During the installation ofthe indoor and outdoor units, access to the working area should be forbidden to children. Unforeseeable accidents could happen.
3. Make sure thatthe base ofthe outdoor unitis 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. Protectthe indoor unit with a fuse of suitable capacity for the maximum input current or with another overload protection device.
7. Ensure thatthe mains voltage corresponds to that stamped on the rating plate. Keep the switch or power plug clean. Insertthe power plug correctly and firmly into the socket, thereby avoiding the risk of electric shock or fire due to insufficient contact.
8. Check thatthe socketis 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 notinstall the appliance at a distance ofless than 50 cm from inflammable substances (alcohol, etc.) Or from pressurized containers (e.g. spray cans).
12. Ifthe appliance is used in areas withoutthe possibility of ventilation, precautions must be taken to prevent any leaks of refrigerant gas from remaining in the environment and creating a danger offire.
13. The packaging materials are recyclable and should be disposed ofin the separate waste bins. Take the air conditioner atthe end ofits useful life to a special waste collection center for disposal.
14. Only use the air conditioner as instructed in this booklet. These instructions are notintended 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 ifthey have been given supervision or instruction concerning use ofthe 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.

SAFETY PRECAUTIONS

SAFETY RULES AND RECOMMENDATIONS FOR THE INSTALLER

19. Do nottry 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 disconnectthe appliance from the mains electricity supply before carrying out any cleaning or maintenance.
21. Ensure thatthe mains voltage corresponds to that stamped on the rating plate. Keep the switch or power plug clean. Insertthe 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 outthe plug to switch offthe appliance when itis 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 ofthe conditioner without air filter could cause an excessive accumulation of dust or waste on the inner parts ofthe device with possible subsequentfailures.
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 atthe 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. Ifthe appliance gives off smoke or there is a smell ofburning, immediately cut offthe power supply and contactthe Service Center.
29. The prolonged use ofthe device in such conditions could cause fire or electrocution.
30. Have repairs carried out only by an authorised Service Center ofthe manufacturer. Incorrect repair could expose the user to the risk of electric shock, etc.
31. Unhook the automatic switch if you foresee notto 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 thatthe 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.

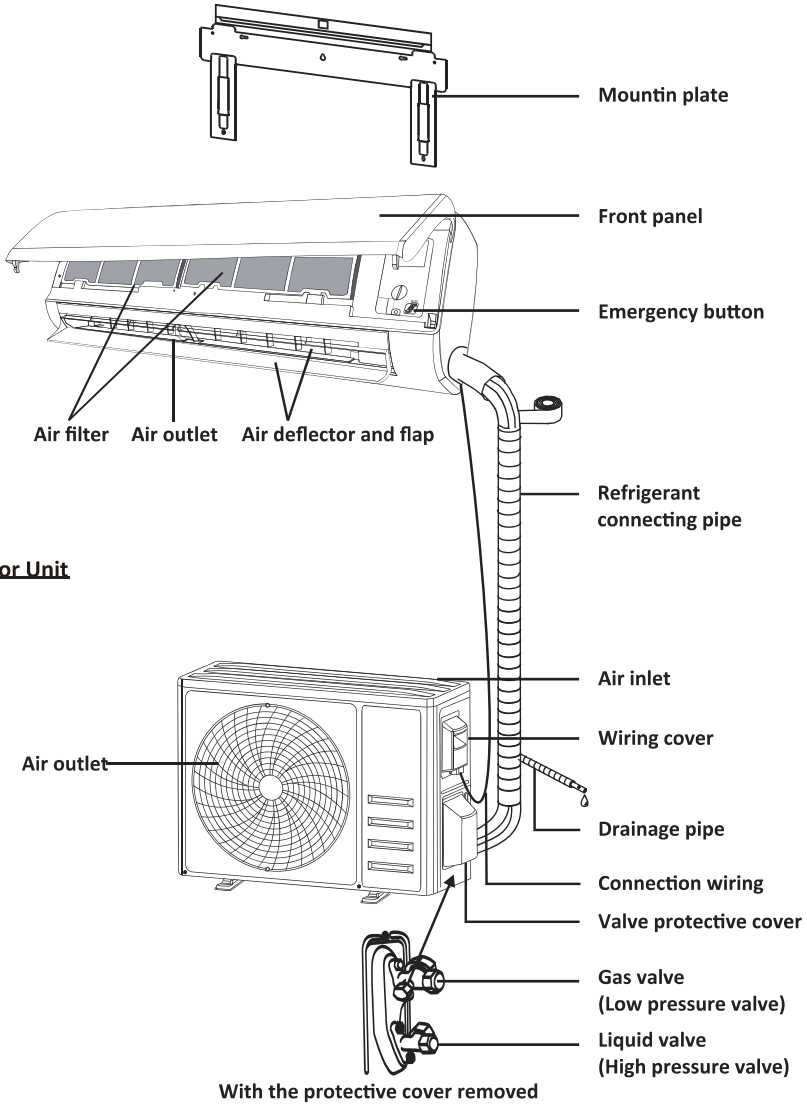
SAFETY PRECAUTIONS

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 nottouch the appliance when barefoot or parts ofthe body are wet or damp.
4. Do not obstructthe air inlet or outlet ofthe indoor or the outdoor unit. The obstruction ofthese openings causes a reduction in the operative efficiency ofthe conditioner with possible consequent failures or damages.
5. In no way alter the characteristics ofthe appliance.
6. Do notinstall the appliance in environments where the air could contain gas, oil or sulphur or near sources ofheat.
7. This appliance is notintended 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 ofthe appliance by a person responsible for their safety.
8. Do not climb onto or place any heavy or hot objects on top ofthe appliance.
9. Do not leave windows or doors open for long when the air conditioner is operating.
10. Do not directthe airflow onto plants or animals.
11. A long direct exposition to the flow of cold air ofthe conditioner could have negative effects on plants and animals.
12. Do not putthe 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 objectinto the appliance. It could cause injury.
15. Children should be supervised to ensure thatthey do not play with the appliance. Ifthe 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

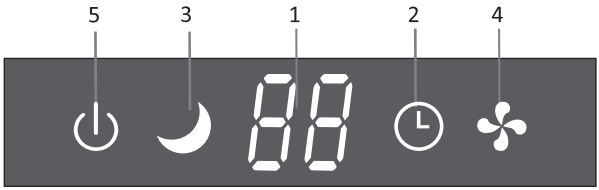
In door Unit



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

NAME OF PARTS

Indoor Display



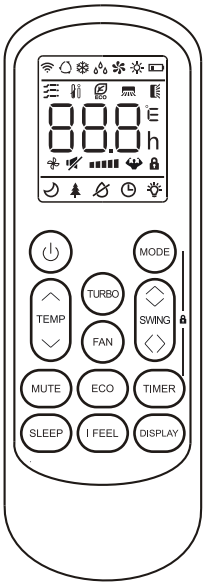
No.	LED	Function
1		Indicator for Timer,temperature and Error codes.
2		Lights up during Timer operation.
3		SLEEP mode
4		The symbol appears when the unitis turned on,and disappear when the unitis turned off.
5		The symbol appears when power on.

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

REMOTE CONTROL

Remote control DISPLAY

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



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

REMOTE CONTROL

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

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

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

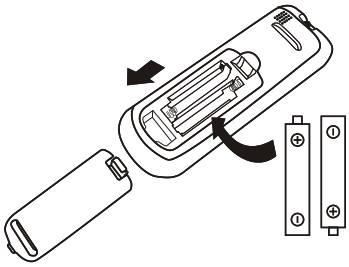
⚠ The unit confirms the correct reception of each button with the beep.

REMOTE CONTROL

Replacement of Batteries

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

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



⚠ For some models of the remote controller, you can program the temperature display between ℃ and ℉.

1. Press and hold the TURBO button over 5 seconds to get into the change mode;
2. Press and hold the TURBO button, until it switch to ℃ and ℉ ;
3. Then release the pressing and wait for 5 seconds, the function will be selected.

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

REMOTE CONTROL

COOLING MODE

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

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

FAN MODE (Not FAN button)

FAN Fan mode, air ventilation only.

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

DRY MODE

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

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

AUTO MODE

AUTO Automatic mode.

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

HEATING MODE

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

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

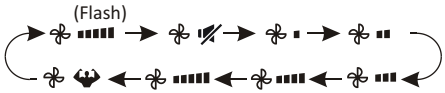
⚠ In HEATING operation, the appliance can automatically activate a defrost cycle, which is essential to clean the frost on the condenser so as to recover its heat exchange function. This procedure usually lasts for 2-10 minutes. During defrosting, indoor unit fan stop operation. After defrosting, it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

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

FAN SPEED function (FAN button)

FAN Change the operating fan speed.

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



Child-Lock function

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

REMOTE CONTROL

TIMER function ---- TIMER ON

TIMER To automatically switch on the appliance.

When the unit is switch-off, you can set the TIMER ON.
To set the time of automatic switch-on as below:

1. Press TIMER button first time to set the switch-on, and [00h] will appear on the remote display and flashes.
2. Press ∧ or ∨ to button to set desired Timer-on time. Each time you press the button, the time increases/decreases by half an hour between 0 and 10 hours and by one between 10 and 24 hours.
3. Press TIMER button second time to confirm.
4. After Timer-on setting, set the needed mode (Cool/ Heat/ Auto/ Fan/ Dry), by press the MODE button. And set the needed fan speed, by press FAN button. And press ∧ or ∨ to set the needed operation temperature.

CANCEL it by press TIMER button.

TIMER function ---- TIMER OFF

TIMER To automatically switch off the appliance.

When the unit is switch-on, you can set the TIMER OFF.
To set the time of automatic switch-off, as below:

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

CANCEL it by press TIMER button.

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

SWING function

SWING SWING

1. Press the button SWING to activate the louver,
   1.1 Press SWING to activate the horizontal flaps to swing from up to down, the will appear on the remote display.
   Press again to stop the swing movement at the current angle.
   1.2 Press SWING to active the vertical deflectors to swing from left to right, the will appear on the remote display.
   Press again to stop the swing movement at the current angle.
2. If the vertical deflectors are positioned manually which placed under the flaps, they allow to move the air flow direct to rightward or leftward.
3. For some inverter heating models, press horizontal SWING and vertical SWING together button at the same time, it will activate the Self-Clean function.

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

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

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

TURBO function

TURBO

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

REMOTE CONTROL

MUTE function

MUTE

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

ECO function

ECO

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

Press the **ECO** button, the appears on the display, and the appliance will run in ECO mode. Press again to cancel it.

Note: The ECO function is available in both COOLING and HEATING modes.

SLEEP function

SLEEP

Pre-setting automatic operating program.

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

After 10 hours running in sleep mode, the air conditioner will change to the previously set mode.

DISPLAY function (Indoor display)

DISPLAY

Switch ON/OFF the LED display on panel.

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

I FEEL function (Optional)

I FEEL

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

This function enables the remote control to measure the temperature at its current location, and send this signal to the air conditioner to optimize the temperature around you and ensure the comfort.
It will automatically deactivate 8 hours later.
(2 hours for some models).

OPERATION INSTRUCTIONS

Attemptto 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.

Inverter air conditioner:

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

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

Characteristics ofheating operation (applicable to Heat pump models)

Preheating:

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

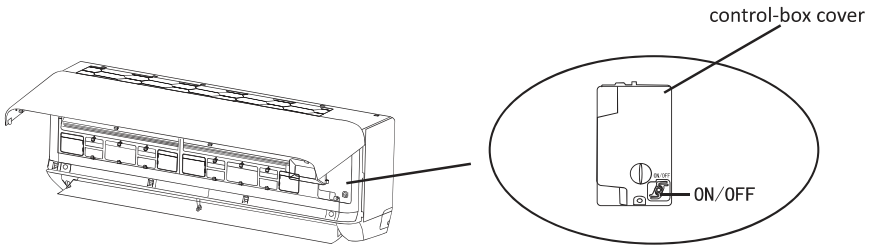
Defrosting:

During heating, when the outdoor unitfrosted, 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

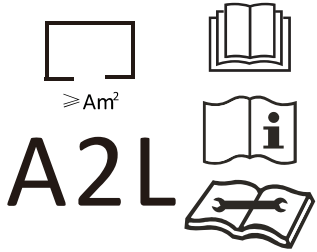


(open the panel ofindoor unit)

INSTRUCTIONS FOR SERVICING(R454B)

1. Check the information in this manual to find outthe dimensions of space needed for proper installation ofthe 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 keptto a minimum.
4. The pipe-work shall be protected from physical damage, and shall not be installed in an unventilated space ifthe 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 ofthe 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. Itis 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 outin accordance with the recommendations ofthe equipment manufacturer. Maintenance and repair operations that require the assistance of other qualified persons must be conducted under the supervision ofthe person competentfor the use offlammable 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



Read operator's manual

Operating instructions

Read technical manual

INSTRUCTIONS FOR SERVICING(R454B)

16. Information on servicing:

1) Checks to the area

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure thatthe risk ofignition 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 thatthe conditions within the area have been made safe by control offlammable 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 thatthe leak detection equipment being used is suitable for use with flammable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

5) Presence offire 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 adjacentto 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 ofignition in such a manner thatit may lead to the risk offire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site ofinstallation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipmentis to be surveyed to make sure thatthere are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.

7) Ventilated area

Ensure thatthe area is in the open or thatitis adequately ventilated before breaking into the system or conducting any work that will produce heat. A degree of ventilation shall continue during the period thatthe 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 fitfor the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed.

Ifin doubt consultthe manufacturer's technical departmentfor assistance.

INSTRUCTIONS FOR SERVICING(R454B)

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 circuitis 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 resistantto 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 componentinspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until itis satisfactorily dealt with. Ifthe fault cannot be corrected immediately butitis necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner ofthe 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;

-- Thatthere 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. Ifitis absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form ofleak detection shall be located atthe most critical pointto 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 thatthe level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrectfitting of glands, etc. Ensure that apparatus is mounted securely. Ensure that seals or sealing materials have not degraded such thatthey no longer serve the purpose of preventing the ingress offlammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications.

NOTE: The use of silicon sealant may inhibitthe effectiveness of some types ofleak 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 permanentinductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipmentin 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 atthe correct rating. Replace components only with parts specified by the manufacturer. Other parts may resultin the ignition of refrigerant in the atmosphere from a leak.

INSTRUCTIONS FOR SERVICING(R454B)

19. **Cabling**
    Check that cabling will not be subjectto wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into accountthe effects of aging or continual vibration from sources such as compressors or fans.
20. **Detection offlammable refrigerants**
    Under no circumstances shall potential sources ofignition 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 detectflammable refrigerants, butthe sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area). Ensure thatthe detector is not a potential source ofignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage ofthe LFL ofthe 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 butthe 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 refrigerantis found which requires brazing, all ofthe refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part ofthe 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 circuitto make repairs or for any other purpose conventional procedures shall be used. However, itis importantthat 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 refrigerantis 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 ifbrazing operations on the pipe-work are to take place.
    Ensure thatthe outletfor the vacuum pump is not close to any ignition sources and there is ventilation available.
23. **WARNING**
    -Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer;
    -The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.
    -Do not pierce or burn.
    -Be aware that refrigerants may not contain an odour.

INSTRUCTIONS FOR SERVICING(R454B)

24.**Statement**

a) Please use the flammable gas detector to check before unload and open the container.

b) No fire source and smoking.

c) That pipe-work shall be protected from physical damage and, in the case of FLAMMABLE REFRIGERANTS, shall not be installed in an unventilated space, if that space is smaller than Amin in Annex GG, except for A2L REFRIGERANTS where the installed pipes comply with 22.116. In case of field charge, the effect on REFRIGERANT CHARGE caused by the different pipe length has to be quantified;

d) That compliance with national gas regulations shall be observed;

e) that mechanical connections made in accordance with 22.118 shall be accessible for maintenance purposes;

f) That pipe-work including piping material, pipe routing, and installation shall include protection from physical damage in operation and service, and be in compliance with national and local codes and standards, such as ASHRAE 15, ASHRAE 15.2, IAPMO Uniform Mechanical Code, ICC International Mechanical Code, or CSA B52. All field joints shall be accessible for inspection prior to being covered or enclosed;

g) That after completion of field piping for split systems, the field pipework shall be pressure tested with an inert gas and then vacuum tested prior to refrigerant charging, according to the following requirements;

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

i) Working personnel for maintenance, service and repair operations.

Every working procedure that affects safety means shall only be carried out by competent persons according to Annex HH.

Examples for such working procedures are:

. breaking into the refrigerating circuit;

. opening of sealed components;

. opening of ventilated enclosures.

INSTALLATION PRECAUTIONS(R454B)

1.Minimum installation height,minium room area（operating or storage) refer to installation manual.

2.Risk Of Fire-Auxiliary devices which may be ignition sources shall not be installed in the ductwork, other than auxiliary devices listed for use with the specific appliance. See instructions.

3.Mount with the lowest moving parts at least 2.5m (8ft) above floor or grade level.

4.Risk of electric shock. Can cause injury or death. Disconnect all remote electric power supplies before servicing.

5.Risk Of Fire. Flammable Refrigerant Used. To Be Repaired Only By Trained Service Personnel. Do Not Puncture Refrigerant Tubing.

6.Risk Of Fire. Dispose Of Properly In Accordance With Federal Or Local Regulations.Flammable Refrigerant Used.

7.Risk Of Fire. Flammable Refrigerant Used. Consult Repair Manual/Owner's Guide Before Attempting To Service This Product.All Safety Precautions Must Be Followed.

8.Risk Of Fire. Due to Flammable Refrigerant Used.Follow Handling Instructions Carefully in Compliance with National Regulations.

INSTALLATION PRECAUTIONS(R454B)

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 = (6 m^3) x *LFL* , m_2 = (52 m^3)) x *LFL*, m_3 = (260 m^3)x *LFL*

Where *LFL* is the lower flammable limit in kg/ m^3,R454B LFL is 0.296 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:

$M_{max} = 2.5x\ (LFL)^{(5/4)} \times h_0 \times (A)^{1/2}$, not to exceed $M_{max} = SF \times LFL \times h_0 \times A$

The required minimum floor area *A*min to install an appliance with refrigerant charge *M* (kg) shall be in accordance with following:

$A_{min} = (M/ (2.5 \times (LFL)^{(5/4)} \times h_o))^2$, not less than $A_{min} = M/ (SF \times LFL \times h_o)$

Refrigerant Charge and RoomArea Limitations

In UL/CSA 60335-2-40,R454B refrigerant is classified as class A2L, which is mildly flammable. Therefore,R454B refrigerant is suitable for systems needing additional refrigerant charge and which will limit the area of the rooms being served by the system.Similarly, the total amount of refrigerant in the system shall be less than or equal to the allowable maximum refrigerant charge. The allowable maximum refrigerant charge depends on the area of the rooms being served by the system.

NOTE:
The nouns in this section are explained as follows:
Mc: The actual refrigerant charge in the system.
A: the actual room area where the appliance is installed.
Amin: The required minimum room area.
Mmax:The allowable maximum refrigerant charge in a room.
Qmin: The minimum circulation airflow.
Anvmin: The minimum opening area for connected rooms.

1.The room area calculationrequirements

CAUTION:
The space considered shall be any space which contains refrigerant-containing parts or into which refrigerant could be release.
The room area (A) of the smallest, enclosed. occupied space shall be used in the determination of the refrigerant quantity limits.

For determination of room area (A) when used to calculate the refrigerant charge limit, the following shall apply.

The room area (A) shall be defined as the room area enclosed by the projection to the base of the walls, partitions and doors of the space in which the appliance is installed.

Spaces connected by only drop ceilings,ductwork, or similar connections shall not be considered a single space.

INSTALLATION PRECAUTIONS(R454B)

Units mounted higher than 70-55/64 inches and spaces divided by partition walls that are no higher than62-63/64 inches shall be considered a single space.
Rooms on the same floor and conected by an open passageway between the spaces can be considered a single room when determining compliance to Amin,if the passageway complies with all of the following.
1) It is a permanent opening.
2) It extends to the floor.
3) It is intended for people to walk through.

The area of the connected rooms,on the same floor,connected by permanent opening in the walls and/or doors between occupied spaces,including gaps between the wall and te floor.can e considered a single room when determining compliance to Amin,provided all of the following conditions are met as fig.2-1.

1)Low level opening

①The opening shall not be less than Anvmin in Table2-1.
②The area of any openings above 11-13/16 inches from the floor shall not be considered in determining compliance with Anvmin.
③At least 50% of the opening area of Anvmin shall be below 7-7/8 inches from the floor.
④The bottom of the opening is not more than 3-15/16 inches from the floor.
⑤The opening is a permanent opening that cannot be closed.
⑥For openings extending to the floor the height shall not be less than 25/32 inches above the surface of the floor covering.

2)High level opening

①The opening shall not be less than 50% of Anvmin in Table2-1.
②The opening is a permanent opening that cannot be closed.
③The opening shall be at least 59 inches above the floor.
④The height of the opening is not less than 25/32 inches.

NOTE:
The requirement for the second opening can be met by drop ceilings, ventillation ducts, or similar arrangements that provide an airflow path between the connected rooms.

The minimum opening for natural ventilation (Anvmin) in connected rooms is related to the room area (A). the actual refrigerant charge of refrigerant in the system (Mc), and the allowable MAXIMUM REFRIGERANT CHARGE in the system (Mmax),Anvmin can be determined according to Table 2-1.

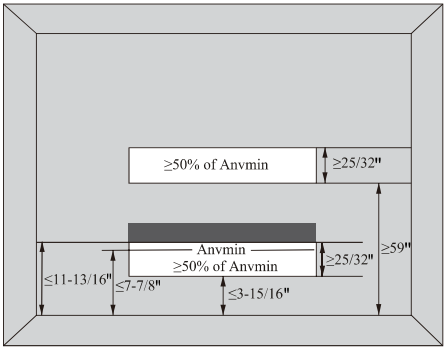


Fig.2-1 Opening Conditions for Connected Rooms

INSTALLATION PRECAUTIONS(R454B)

The mninimum opening area for connected rooms.Note:Take the Mc=1.73kg s an example.

Table 2.1

A(m^2)	Mc(Kg)	Mmax(Kg)	Anvmin(m^2)
4	1.73	1.48	0.0058
7	1.73	2.59	0.0000
10	1.73	3.70	0.0000
15	1.73	5.55	0.0000
20	1.73	7.4	0.0000
30	1.73	11.1	0.0000

when the unit detects a refrigerant leak,the minimum airflow of the indoor unit is as follows:

Model	Mnimum airflow	Model	Mnimum airflow
12K	110m^3/h	24K	510m^3/h
18K	300m^3/h	30K	640 m^3/h
/	/	36K	640 m^3/h

Table GG.1 - Maximum charge (kg)

Category	LFL (kg/m³)	h_0(m)	Floor area (m²)						
			4	7	10	15	20	30	50
R454B	0.296	1.8	1.07	1.86	2.66	3.81	4.39	5.38	6.95
		2.5	1.48	2.59	3.70	5.28	6.10	7.47	9.65
		2.8	3.06	4.04	4.83	5.92	6.83	8.37	10.81

Table GG.2 -Minimum room area(m²)

Category	LFL (kg/m³)	h_0(m)	Charge amount (M) (kg) Minimum room area (m²)						
			0.66kg	0.86kg	1kg	1.28kg	1.58kg	1.8kg	2kg
R454B	0.296	1.8	2.67	3.00	3.75	4.84	5.86	6.76	7.51
		2.5	1.92	2.16	2.70	3.49	4.22	4.86	5.41
		2.8	1.71	1.93	2.41	3.11	3.76	4.34	4.83

For R454B refrigerant charge amount and minimum room area:

The machine you purchased may be one of the types in the table below. The indoor and outdoor units are designed to be used together. Please check the machine you purchased.The indoor unit should be installed at least 8.2ft /2.5m above from the floor, and the minimum room area of operating or storage should be as specified in the following table:

Model	12K	12K
minimum floor space(Sq.Ft/m²) (Standard pipe 7.5m and height 1.8m)	**28.74/2.67**	**32.29/3**

Model	18K	24K	30K	36K
minimum floor space(Sq.Ft/m²) (Standard pipe 7.5m and height 1.8m)	**40.36/3.75**	**52.1/4.84**	**63.08/5.86**	**63.08/5.86**

Model	12K	18K	24K	36K/30K
R454B(g)Standard	860	1000	1280	1580
R454B(g)Max	935	1075	1355	1655

Installation Safety Principles

1. Site Safety

Open Flames Prohibited

Ventilation Necessary

2. Operation Safety

Must wear protective clothing

and anti-static gloves

Don't ues mobile phone

INSTALLATION PRECAUTIONS(R454B)

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 R454B 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, itis necessary to take appropriate anti-static measures such as wear anti-static clothing and/or gloves.
4. Itis necessary to choose the site convenientfor installation or maintenance wherein the air inlets and outlets ofthe indoor and outdoor units should be not surrounded by obstacles or close to any heat source or combustible and/or explosive environment.
5. Ifthe indoor unit suffers refrigerant leak during the installation, itis necessary to immediately turn offthe valve ofthe outdoor unit and all the personnel should go outtill the refrigerant leaks completely for 15 minutes. Ifthe productis damaged, itis a mustto carry such damaged product back to the maintenance station and itis prohibited to weld the refrigerant pipe or conduct other operations on the user's site.
6. Itis necessary to choose the place where the inlet and outlet air ofthe indoor unitis even.
7. Itis 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			

INSTALLATION PRECAUTIONS(R454B)

Pipe Length and Additional Refrigerant

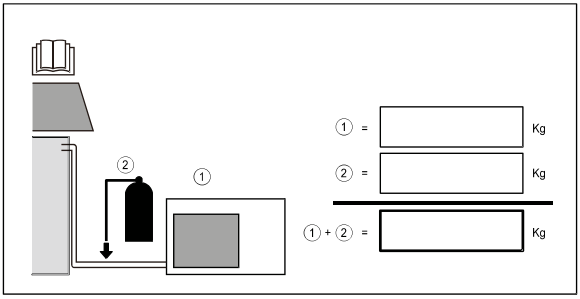
Inverter Models Capacity (Btu/h)	12K	18K	24K	30K	36K
Length of pipe with standard charge	7.5m/25ft	7.5m/25ft	7.5m/25ft	7.5m/25ft	7.5m/25ft
Maximum distance between indoor and outdoor unit	15m/49ft	20m/65ft	20m/65ft	30m/98ft	30m/98ft
Additional refrigerant charge	10g/m	10g/m	10g/m	10g/m	10g/m
Max. diff. in level between indoor and outdoor unit	10m/33ft	15m/49ft	15m/49ft	20m/65ft	20m/65ft
Type of refrigerant	R454B				

Torque Parameters

PIPE Size	Newton meter[N x m]	Pound-force foot (lbf-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

Wiring material ampacities	A W G
4	22
7	20
10	18
13	16
18	14
25	12
30	10
40	8
55	6
70	4



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Key

Example 1 REFRIGERAN T CHARGE of the precharge d part of the appliance

Example 2 REFRIGERAN T CHARGE adde d during installation

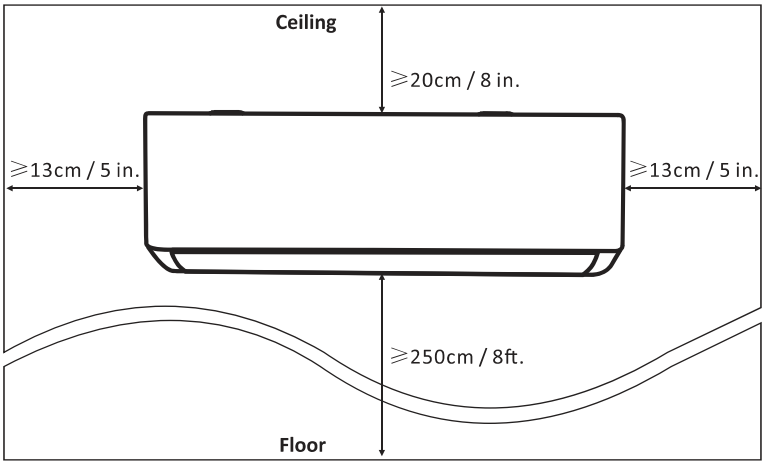
⚠ Note: This table is only for reference, the installation shall meet the requirements of local laws and regulations.

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 throughoutthe room.
1.3 Condensate can be easily and safely drained.
1.4 All connections can be easily made to outdoor unit.
1.5 Indoor unitis out of reach of children.
1.6 A mounting wall strong enough to withstand four times the full weight and vibration ofthe 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 ofthe 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 notinstall 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.

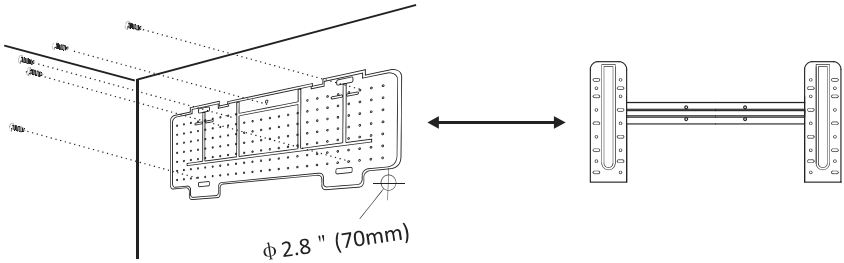
Minimum Indoor Clearances



INDOOR UNIT INSTALLATION

Step2: Install Mounting Plate

2.1 Take the mounting plate from the back ofindoor unit.
2.2 Ensure to meetthe 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 Adjustthe mounting plate to a horizontal state with a spirit level, then mark outthe 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.

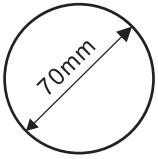


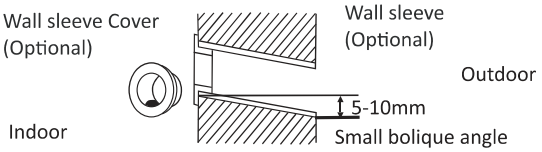
Note:
(I) Make sure the mounting plate is firm enough and flat againstthe wall after installation.
(II) This figure shown may be differentfrom the actual object, please take the latter as the standard.

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 protectthe connection parts.

Caution:
When drill the wall hole, maker sure to avoid wires, plumbing and other sensitive components.



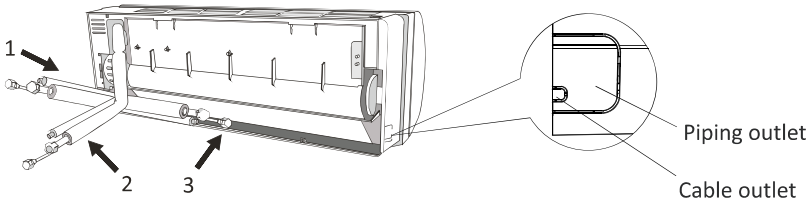


INDOOR UNIT INSTALLATION

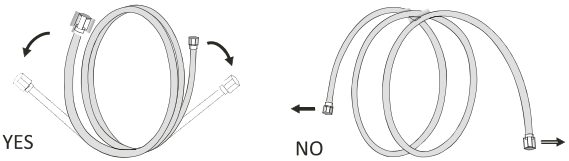
Step4: Connecting Refrigerant Pipe

4.1 According to the wall hole position, selectthe 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 cutthe plastic sheet of piping outlet and cable outlet on the corresponding side ofthe indoor unit.

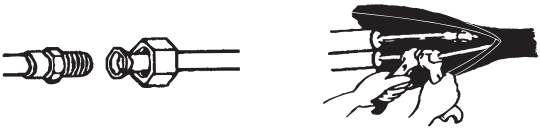
Note: When cutting offthe plastic sheet atthe outlet, the cut should be trimmed to smooth.



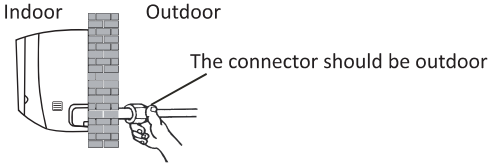
4.2 Bending the connecting pipes with the portfacing up as shown in the figure.



4.3 Take offthe plastic cover in the pipe ports and take offthe protective cover on the end of piping connectors.
4.4 Check whether there is any sundry on the port ofthe connecting pipe and make ensure the port is clean.
4.5 After align the center, rotate the nut ofthe 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: When flared joints are reused indoors, the flare part shall be re-fabricated.

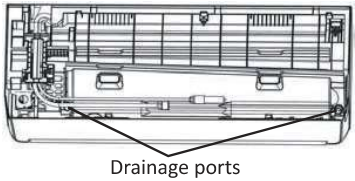


INDOOR UNIT INSTALLATION

Step5: Connect Drainage Hose

5.1 Adjustthe drainage hose(if applicable)

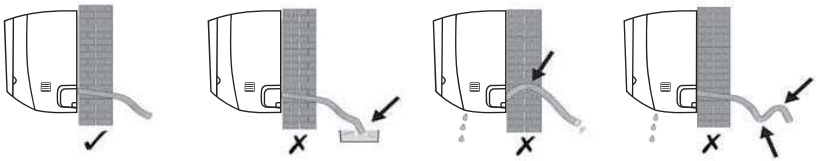
In some model, both sides ofthe indoor unit are provided with drainage ports, you can choose one ofthem to attache the drainage hose. And plug the unused drain port with the rubber attached in one ofthe ports.



5.2 Connectthe drainage hose to the drainage port, ensure the jointis firm and the sealing effectis good.

5.3 Wrap the jointfirmly 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 ofindoor unit.

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

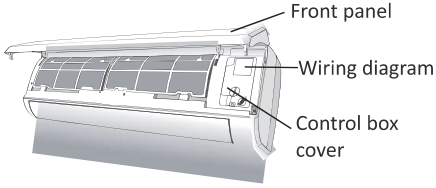
6.4 Unscrew the cable clamp.

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

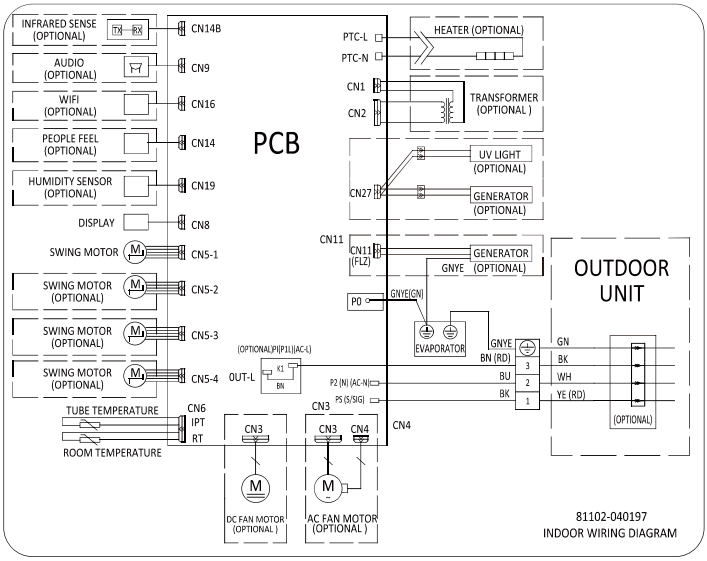
6.6 Connectthe wires to corresponding terminal according to the wiring diagram on the electric control box cover. And make sure thatthey are well connected.

6.7 Screw the cable clamp to fasten the cables.

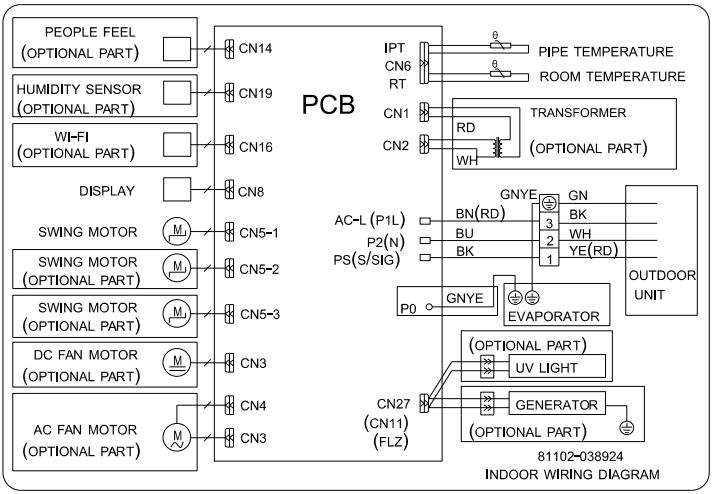
6.8 Reinstall the electric control box cover and front panel.



INDOOR UNIT INSTALLATION



12K/18K (Wiring diagram)



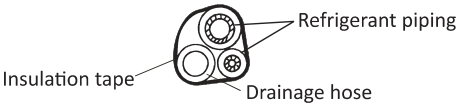
24K/30K/36K(Wiring diagram)

INDOOR UNIT INSTALLATION

Step7: Wrap Piping and Cable

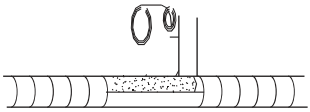
After the refrigerant pipes, connecting wires and drainage hose are all installed, in order to save space, protect and insulate them, it must be bundle with insulating tape before passing them through the wall hole.

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



Note: (I) Make sure the drainage hose is atthe 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 ofindoor unit on the mounting plate.
8.3 Apply slight pressure to the left and right sides ofthe indoor unit, make sure the indoor unitis hooked firmly.
8.4 Push down the bottom ofindoor unitto letthe snaps onto the hooks ofthe mounting plate, and make sure itis hooked firmly.

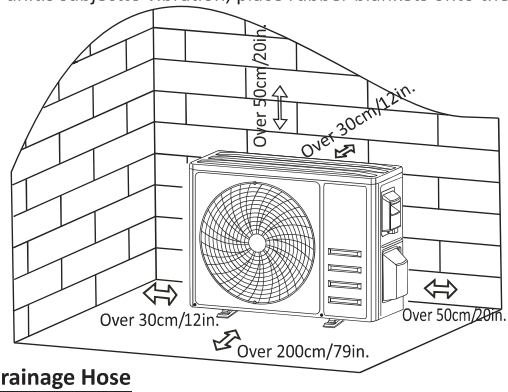
Sometimes, ifthe refrigerant pipes were already embedded in the wall, or if you wantto connect the pipes and wires on the wall, do as below:
(I) Hook the top ofthe indoor unit on the mounting plate without piping and wiring.
(II) Lift the indoor unit opposite the wall, unfold the bracket on the mounting plate, and use this bracketto prop up the indoor unit, there will be a big space for operation.
(III) Do the refrigerant piping, wiring, connect drainage hose, and wrap them as **Step 4 to 7**.

OUTDOOR UNIT INSTALLATION

Step1: Select Installation Location

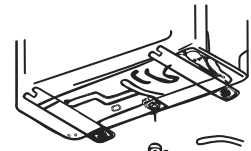
Select a site that allows for the following:

1.1 Do notinstall the outdoor unit near sources ofheat, steam or flammable gas.
1.2 Do notinstall the unitin too windy or dusty places.
1.3 Do notinstall 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 notinterfere 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 unitin a safe and solid place.
1.7 Ifthe outdoor unitis subjectto vibration, place rubber blankets onto the feet ofthe unit.



Step2: Install Drainage Hose

2.1 This step only for heat pump models or RCACs.
2.2 Insert the drainage jointto the hole atthe bottom ofthe outdoor unit.
2.3 Connectthe drainage hose to the joint and make the connection well enough.

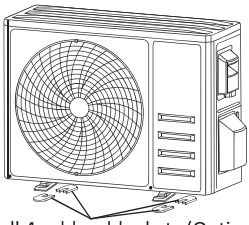


Step3: Fix Outdoor Unit

3.1 According to the outdoor unitinstallation 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 unitfirmly with bolts.

Note:

The outdoor unit can be fixed on a wall-mounting bracket. Follow the instruction ofthe wall-mounting bracketto 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 ofthe weight of outdoor unit.

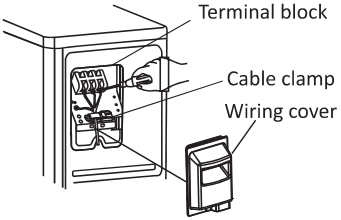


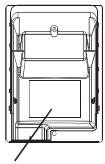
Install 4 rubber blankets (Optional)

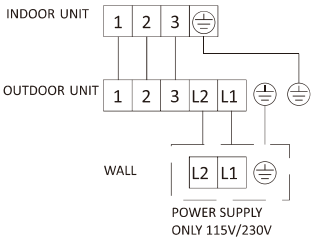
OUTDOOR UNIT INSTALLATION

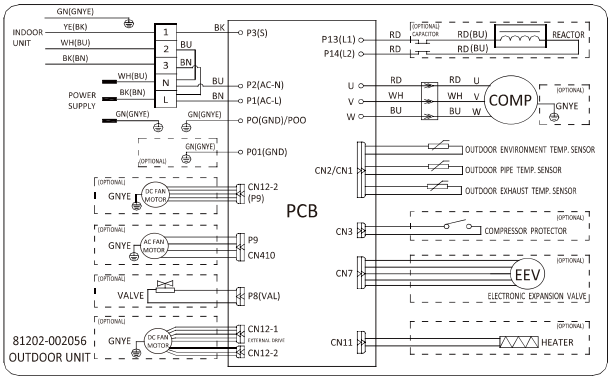
Step4: Install Wiring

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, connectthe 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 ofindoor and outdoor units, the power should be cut off.

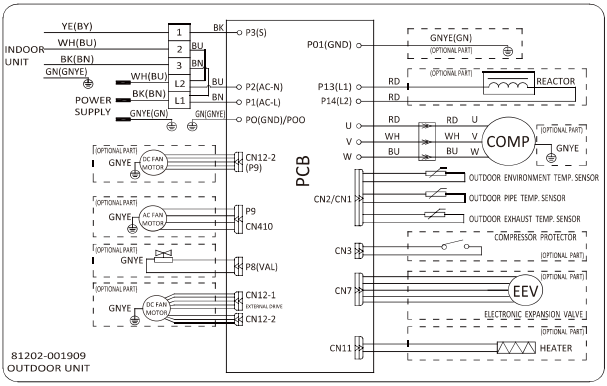








12K(115V) Wiring diagram



12K/18K/24K/30K/36K(230V) Wiring diagram

OUTDOOR UNIT INSTALLATION

Power Supply			
Model	Voltage	MCA	Breaker
12K	115V	17	25
12K	208-230V	11	15
18K	208-230V	12	20
24K	208-230V	17	25
30K/36K	208-230V	18	30

Step5: Connecting Refrigerant Pipe

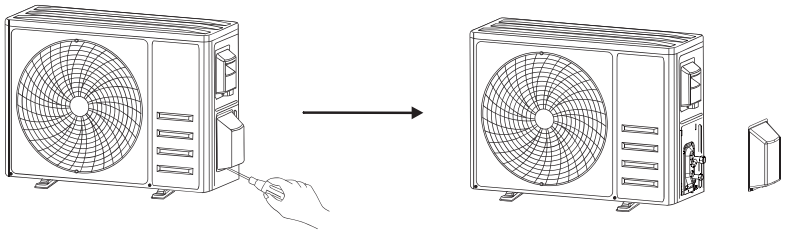
5.1 Unscrews the valve cover, grasp and press it down gently to take it down(ifthe valve cover is applicable).

5.2 Remove the protective caps from the end of valves.

5.3 Take offthe plastic cover in the pipe ports and c heck whether there is any sundry on the port of the connecting pipe and make ensure the portis clean.

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

5.5 Use a spanner to hold the body ofthe 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**)

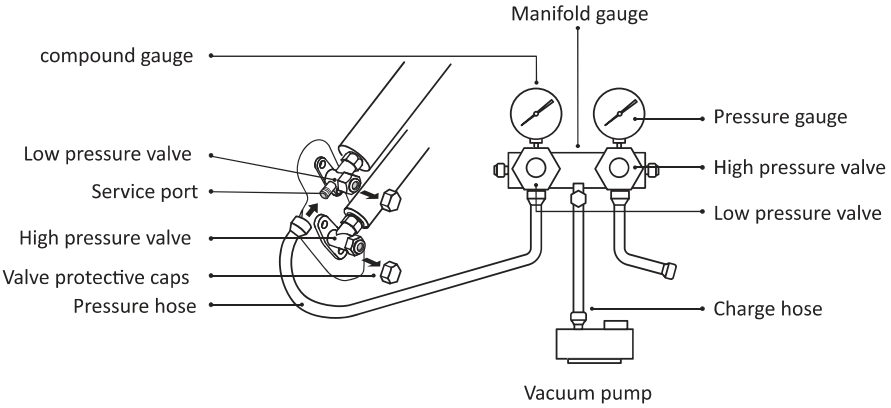


Take down the valve cover

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 ofthe outdoor unit.
6.2 Connectthe pressure hose of manifold gauge to the service port on the outdoor unit low pressure valve.
6.3 Connectthe charge hose from the manifold gauge to the vacuum pump.
6.4 Open the low pressure valve ofthe 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 ofthe manifold gauge and turn offthe vacuum.
6.8 Hold the pressure for 5 minutes, make sure thatthe 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 refrigerantfill 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 ofthe outdoor unit with hexagonal wrench.
6.12 Reinstall the protective caps ofthe service port, low pressure valve and high pressure valve of the outdoor unit.
6.13 Reinstall the valve cover.



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 thatthe joint of refrigerant pipe is installed completely. • Confirm the safety of outdoor unit, mounting plate and indoor unit installation. • Confirm thatthe valves are fully open. • Confirm thatthere are no foreign objects or tools left inside the unit. • Complete installation ofindoor unit air inlet grille and panel.
Refrigerant leakage detection	• The piping joint, the connector ofthe two valves ofthe 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, itindicates thatthe leakage detection resultis safe. • Leak detector method: Use a professional leak detector and read the instruction of operation, detect atthe position where leakage may occur. • The duration ofleak detection for each position should lastfor 3 minutes or more; Ifthe test result shows thatthere 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 ofindoor unit with thermal insulation material and wrap with insulation tape.

TEST OPERATION

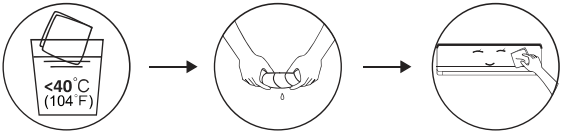
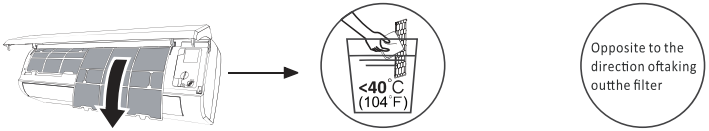
Test Run Instruction

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 -Setthe lowesttemperature
   HEATING-Setthe highesttemperature
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 Ifthe outlet air temperature responds to the cooling and heating modes
   4.2 Ifthe water drains properly from the drainage hose
   4.3 Ifthe Louver and deflectors(optional) rotate properly
5. Observe the test run state ofthe 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 offthe 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:

Ifthe ambienttemperature 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 offthe 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 detergentto clean the air conditioner. • Pay attention to cleaning the filter screen regularly to avoid dust covering which will affectthe filter screen effect. When the operating environmentis dusty, the cleaning frequency should be increased appropriately. • After removing the filter screen, do nottouch the fins ofthe indoor unitto avoid scratching.
Clean the unit	 Wring it dry and gently wipe the surface ofthe unit Tip: Wipe frequently to keep air conditioner clean and good appearance .
Clean the filter	 Take outthe filter from the unit Clean the filter with soapy water and air dry it Replace the filter Tip: When you find accumulated dustin the filter, please clean the filter in time to ensure the clean, healthy and efficient operation inside the air conditioner.
Service and maintenance	• When the air conditioner is notin use for a long time, do the following work: Take outthe batteries ofthe remote controller and disconnectthe 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 atthe air inlet and outlet ofindoor and outdoor units; 3. Check whether the drain pipe is unobstructed; Install the batteries ofthe remote controller and check whether the power is on.

TROUBLESHOOTING

MALFUNCTION	POSSIBLE CAUSES
The appliance does not operate	Power failure/plug pulled out.
	Damaged indoor/outdoor unitfan motor.
	Faulty compressor thermomagnetic circuit breaker.
	Faulty protective device or fuses.
	Loose connections or plug pulled out.
	It sometimes stops operating to protectthe 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 ofliquid 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 ofthe front panel due to variations in temperature and does notindicate 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 ofheatin 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 offthe air conditioner immediately and cut offthe 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 ofthe 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 ofindoor fan motor
E7	Outdoor ambienttemperature sensor fault
E0	Indoor and outdoor communication fault
E8	Outdoor discharge temperature sensor fault
E9	Outdoor IPM module fault
EA	Outdoor current detectfault
EE	Outdoor PCB EEPROM fault
EF	Outdoor fan motor fault
EH	Outdoor suction temperature sensor fault

DISPOSAL GUIDELINE

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

When disposing ofthis appliance, you have the following options:

- Dispose ofthe 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 ofthis 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.

Comfort Kool

Wi-Fi Function User Manual

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.

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/2ANDL-TCWBRCU1)

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.

CONTENTS

Wi-Fi Module specification and basic information

1. Minimum specifications on a Smart phone:

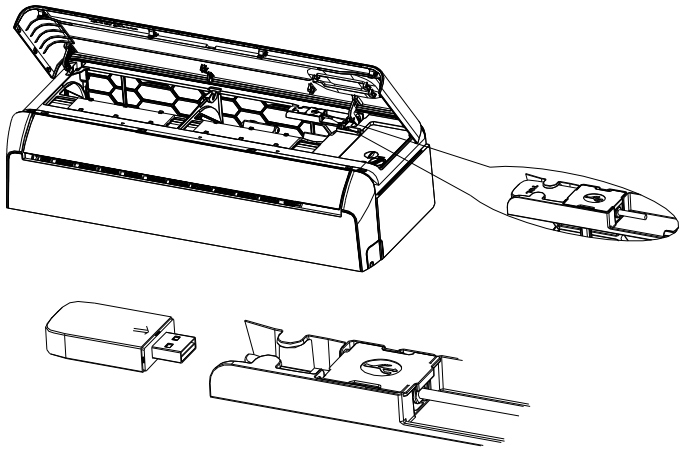
Android 5.0 version or higher

IOS 9.0 version or higher

2. Basic parameters for Wi-Fi module

Parameters	Details
Network frequency	2.400 - 2.500GHz
Standards of WLAN	IEEE 802.11 b/g/n(channels 1-14)
Protocol stack support	IPv4/IPv6/TCP/UDP/HTTPS/TLS/MulticastDNS
Security support	WEP/WPA/WPA2/AES128
Network type support	STA/AP/STA+AP

3. Installation guide for USB WiFi only



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" , ownload 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.

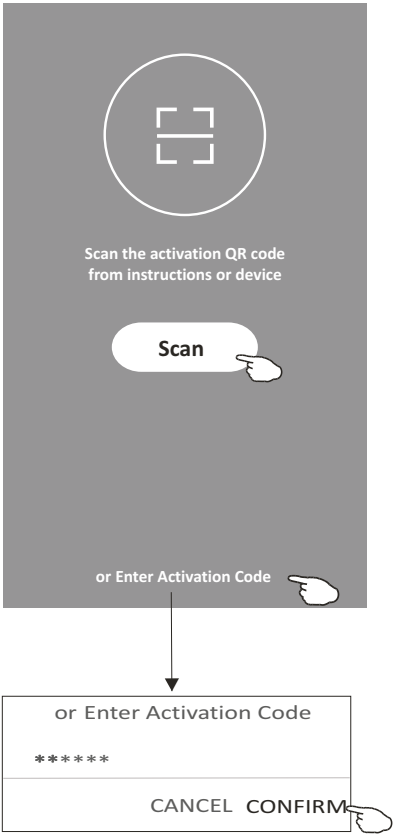
Activate APP

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

1. Launch the APP "SmartLife-SmartHome" 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".

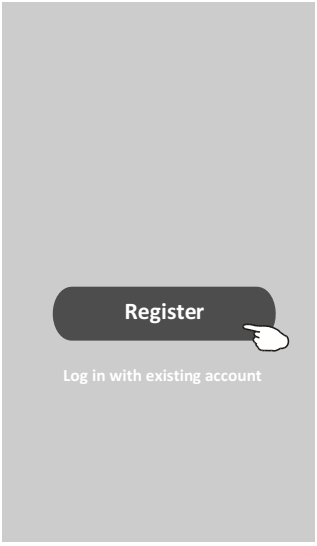


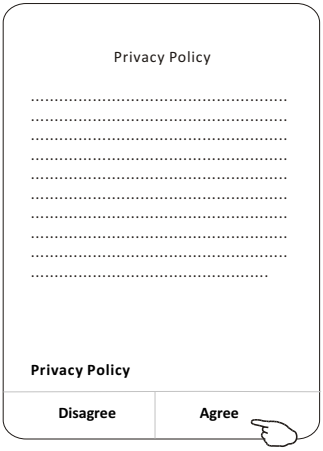
Activate QR code and activation code

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

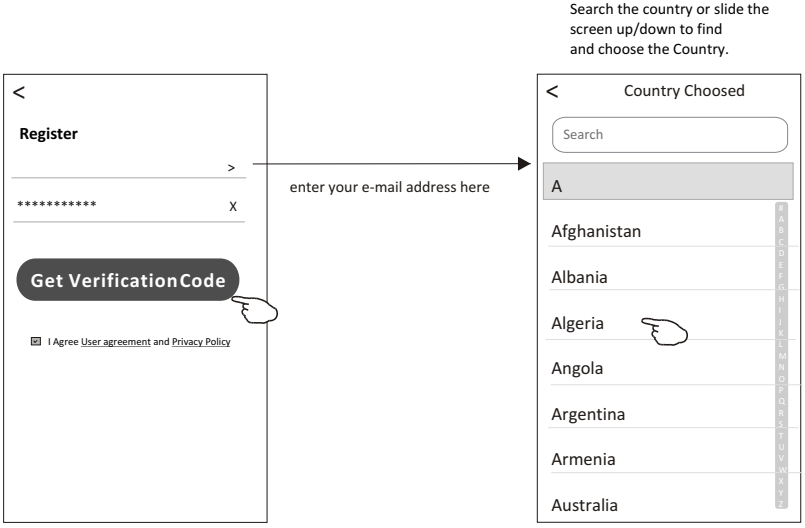
Registration

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



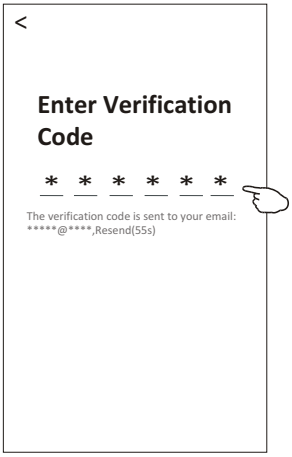


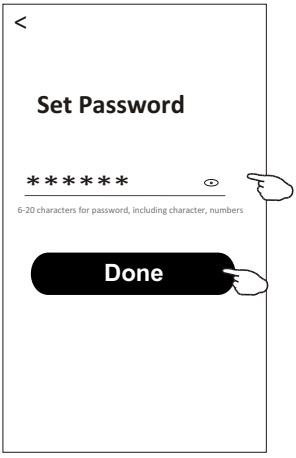
3.Tap">" and choose the country.
4.Enter your e-mail address.
5.Tap the button "Get Verification code".



Registration

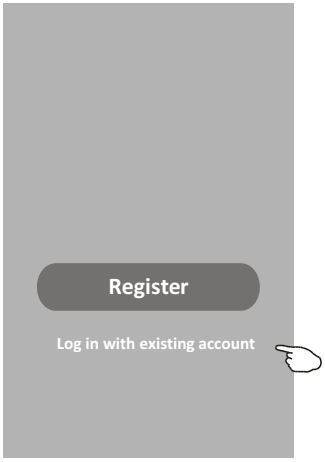
6.Enter the verification code you received from e-mail.
7.Set the Password with 6-20 characters including characters and numbers.
8.Tap "Done".

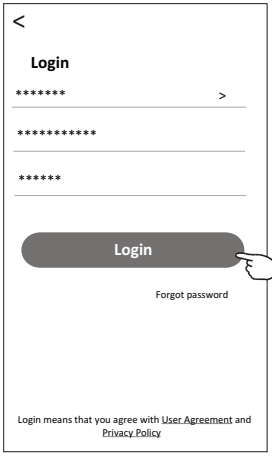




Login

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





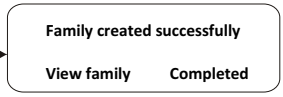
enter your account(e-mail) here

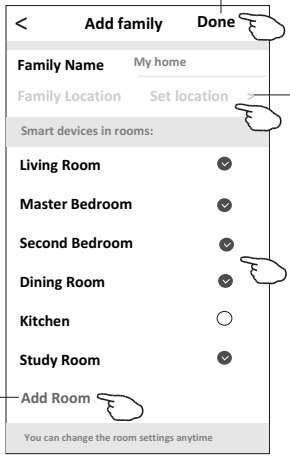
enter the password

Login

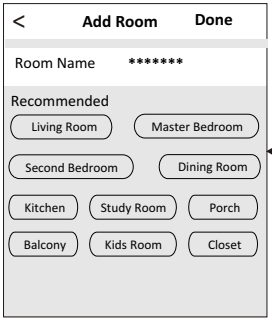
The first time the APP is used, Create family is needed:

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".





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



Note:
The app can open the map on your phone and you can set the location where you are.

Add device

Forgot the password

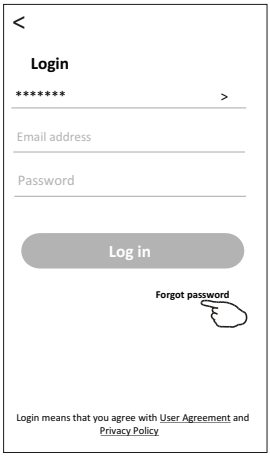
If you forgot the password or you want to reset the password, operate as below:

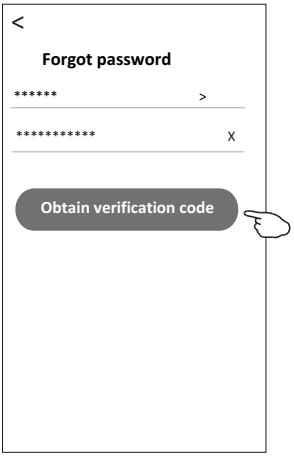
1.Tap "Forgot password".

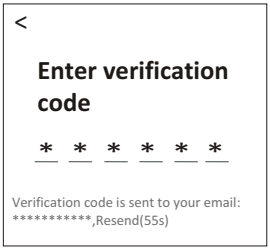
2.Enter your account(e-mail address) and tap button "Obtain verification code".

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

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





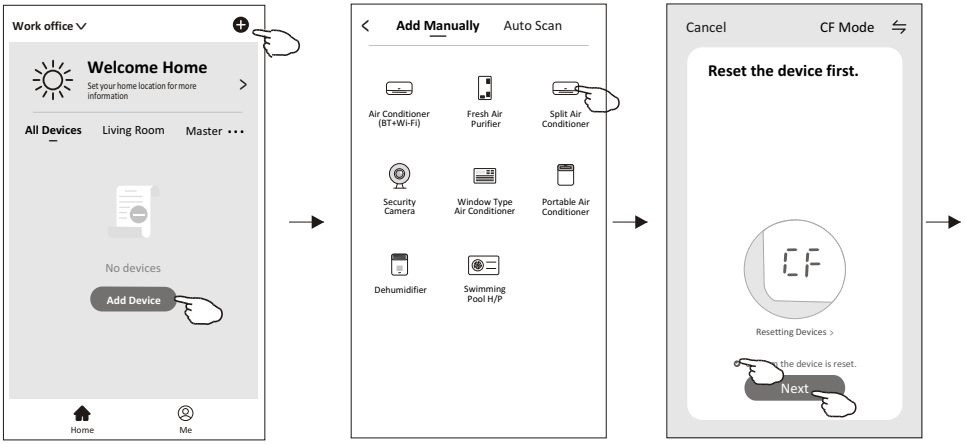


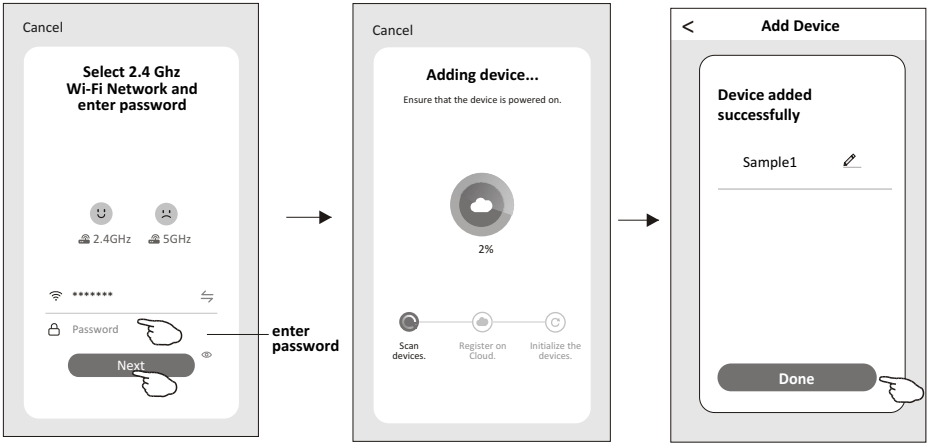
Add device

There are 2 modes CF(Quick connection) and AP(Access Point) for adding device.

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 "Split Air conditioner" logo.
4.Input the password of the Wi-Fi which the same as your smart phone connected, then tap "Next".
5.Choose "CF Mode" on the right corner, then follow the instruction on page before or screen to reset the Wi-Fi module, 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"

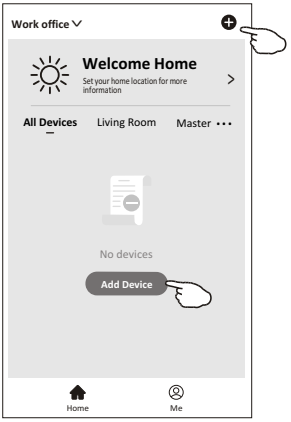




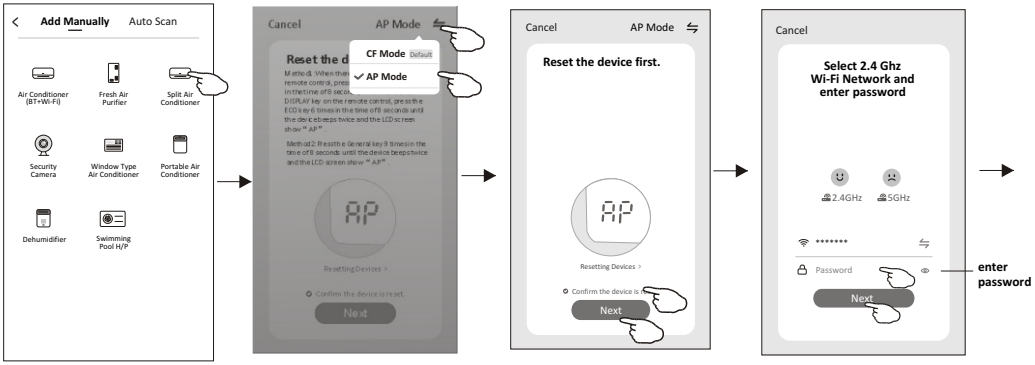
Add device

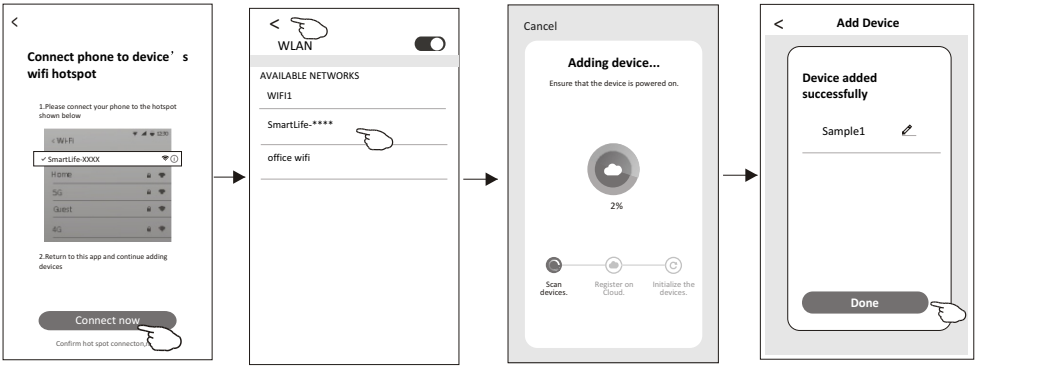
There are 2 methods to add the device.

2-AP mode



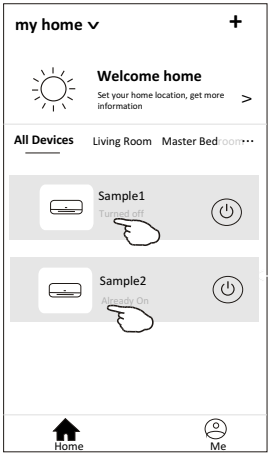
1.Power on the indoor unit, no need to launch the air conditioner.
2.Click "+" in the upper right corner of the "Home" screen
or tap "Add device" on the room which has no device.
3.Tap the "Split Air Conditioner" logo.
4.Input the password of the Wi-Fi which the same as your smart phone connected, then tap "Next".
5.Choose "AP Mode" on the right corner, then follow the instruction on page before or screen to reset the Wi-Fi module, 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"





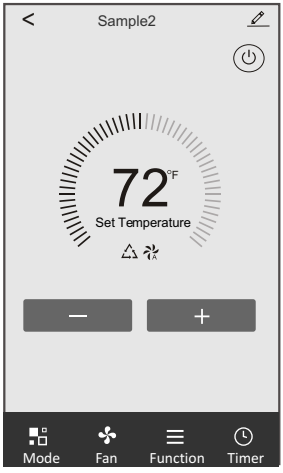
Air conditioner control

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

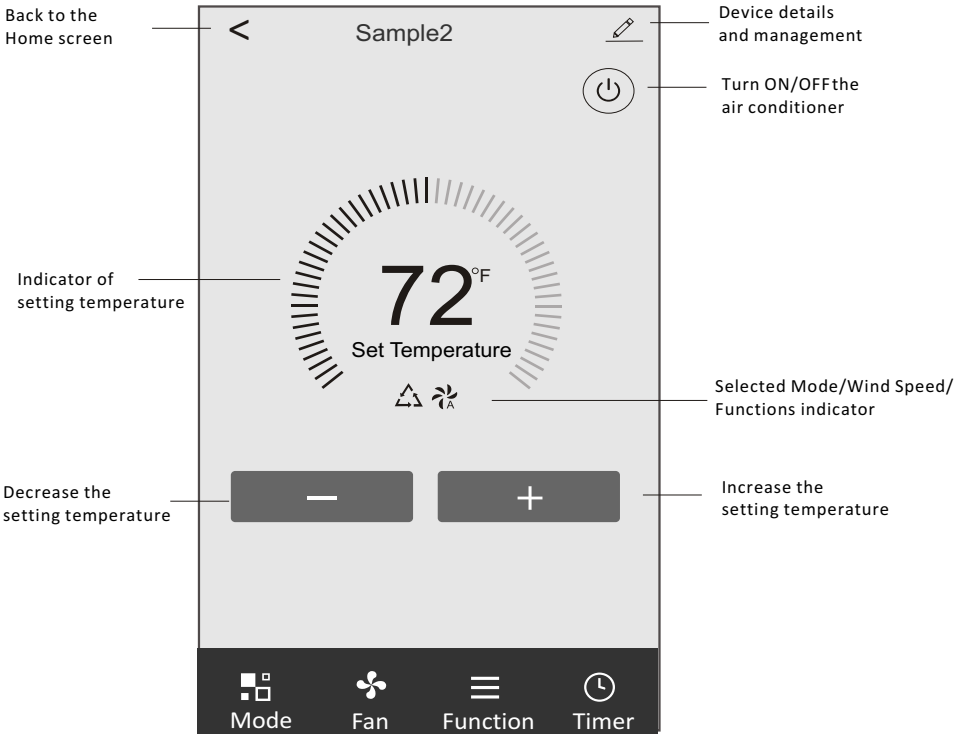


Control form2

Air conditioner control

Control form1

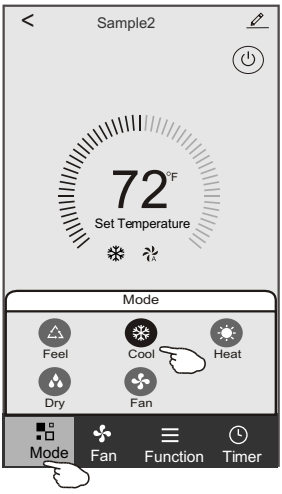
The main control interface



Air conditioner control

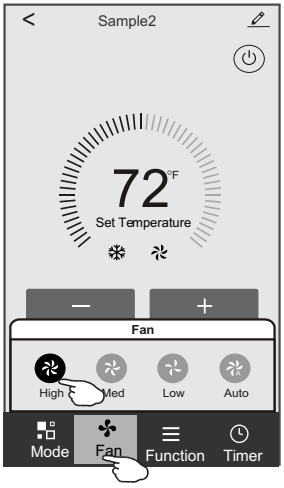
Control form1-Mode setting

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 Wind Speed

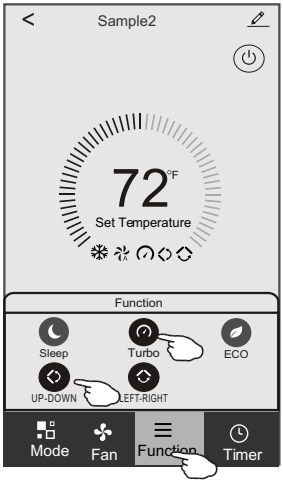
1.Tap Fan to pop up the Fan screen.
2.Select one of the fan speed High/med/Low/Auto.
3.Tap anywhere around the setting temperature to cancel the selection.



Air conditioner control

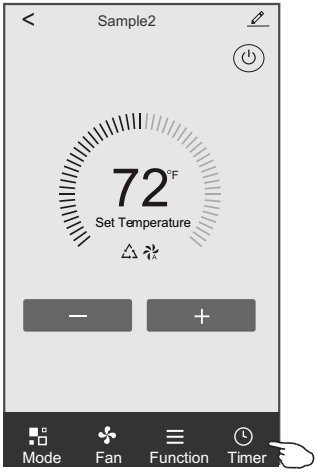
Control form1-Function setting

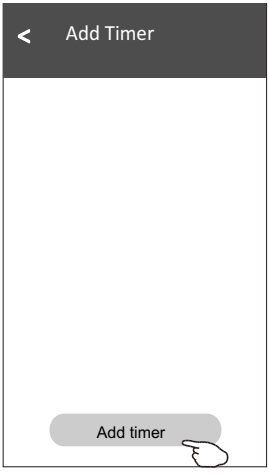
1.Tap Function to pop up the Function screen.
2.Select one of the functions Sleep/Turbo/ECO.
3.Select UP-DOWN/LEFT-RIGHT for auto swing with direction of UP-DOWN/LEFT-RIGHT.
4.Tap anywhere around the setting temperature to cancel the Function setting.



Control form1-Timer adding

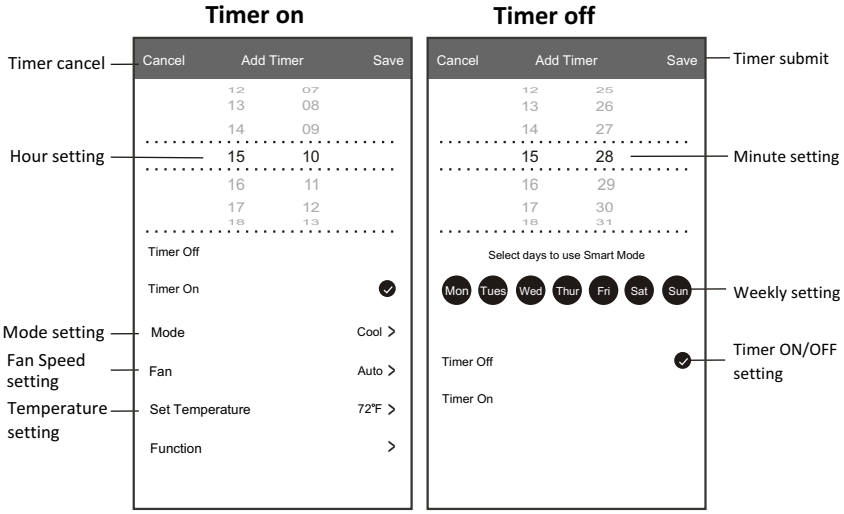
1.Tap Timer to pop up the Add Timer screen.
2.Tap Add Timer.





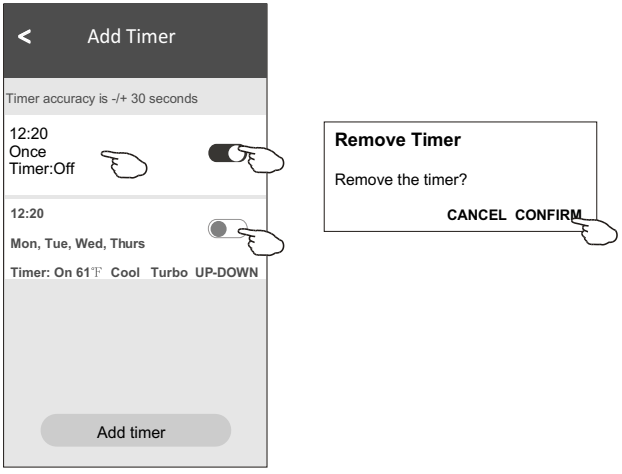
Control form1-Timer adding

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.



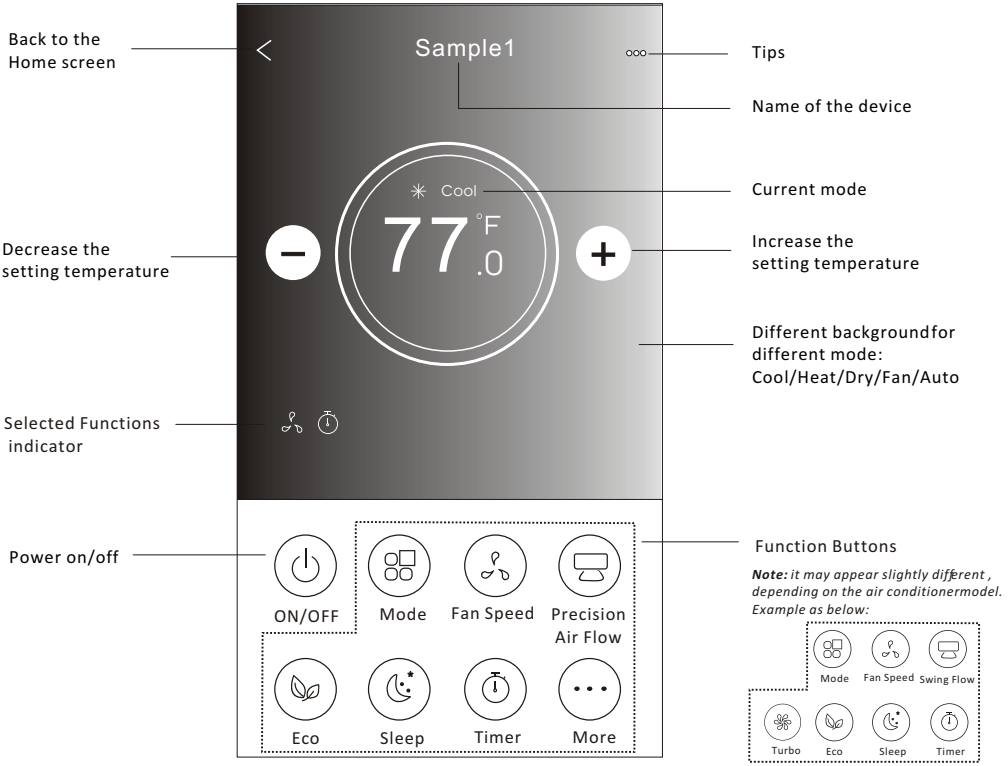
Control form1-Timer Management

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.



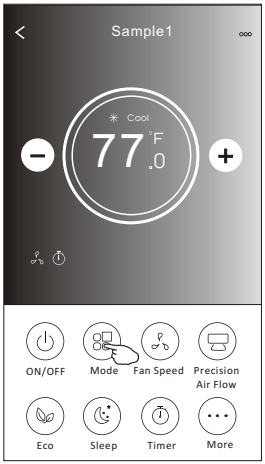
Control form2

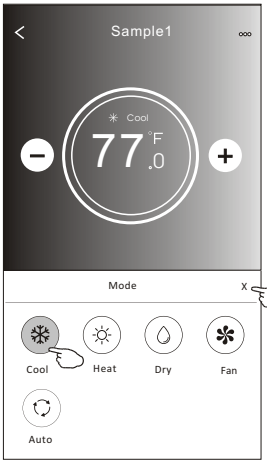
The main control interface



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.

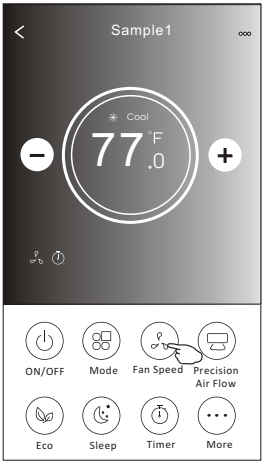


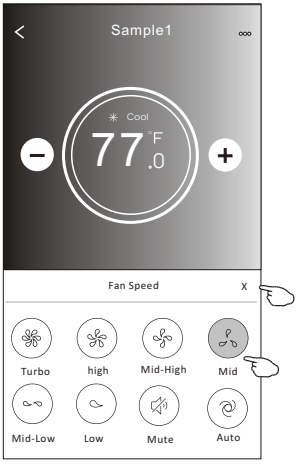


Note: *please read the details of each mode in the user manual to control more comfortable.*

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.

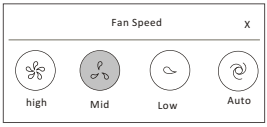




Mode	Fan Speed
Cool	All speeds
Fan	All speeds
Dry	
Heat	All speeds
Auto	All speeds

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

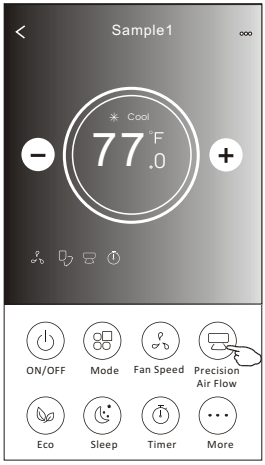
Note: *Fan Speed screen mayappear slightly different , depending on the air conditionermodel.*
Example as below:

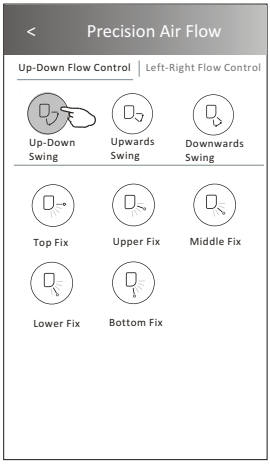


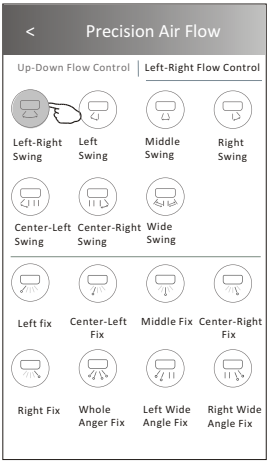
Control form2-Air Flow control

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.

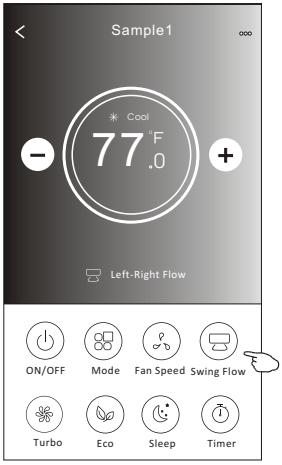
Note: *For some models without auto Left-Right wind, If you active it, you will hear a beep,but no any actions.*

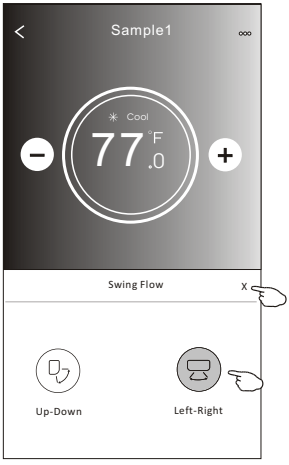






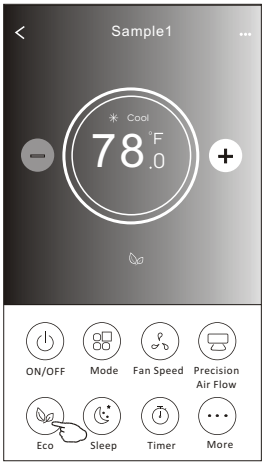
Note: *The Main controlscreen and Air Flowscreen may appear slightlydifferent , depending on the airconditioner model.Example asbelow:*





Control form2-ECO function

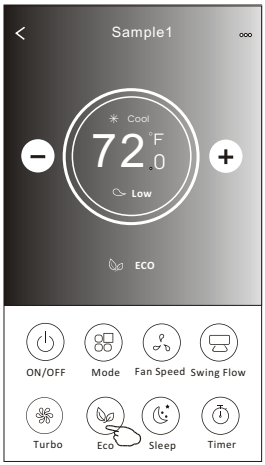
1.For Eco function, just tap the button to activate the function, the button will be lighting and the indicator will appear on the screen.
2.Tap again to disable the function.
3.Temperature controlled for some air conditioner model:
In Cooling mode, the new setting temperature will ⩾ 78°F.
In heating mode, the new setting temperature will ⩽ 77°F.



Mode	ECO enabled
Cool	Yes
Fan	
Dry	
Heat	Yes
Auto	

ECO is disabled on Fan/Dry/Auto mode .

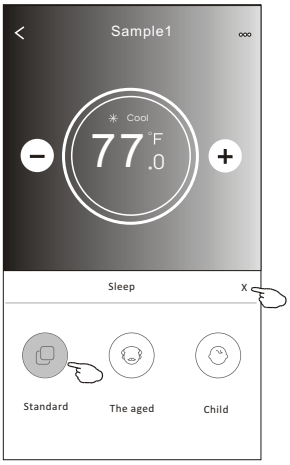
Note: *The Main controlscreen and ECOcontrol method mayappear slightly different, depending on the airconditioner model.Example asbelow:*



Note:
ECO is disabled on Turbo/Sleep mode too for some air conditioner model.

Control form2-Sleep function

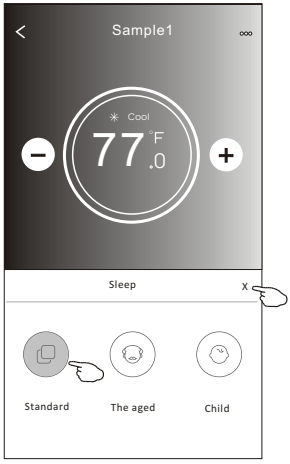
1.Tap the Sleep button.
2.Choose your desired sleep mode and tap it.
3.Tap the X button to back to the main control screen.
4.The selected sleep mode indicator will appear on the screen.



Mode	Sleep enabled
Cool	Yes
Fan	
Dry	
Heat	Yes
Auto	

Sleep is disabled on Fan/ Dry/Auto mode .

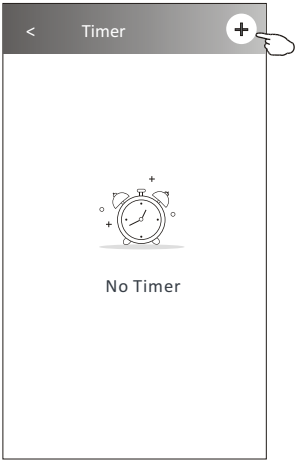
Note:
The Main control screen may appear slightly different ,depending on the air conditioner model.
Example as below:

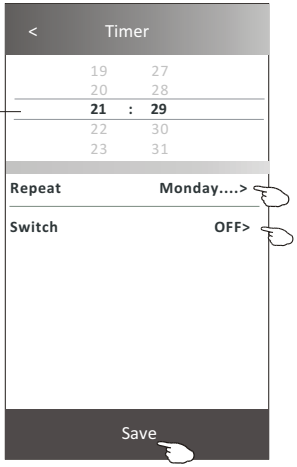


Note:
Sleep is disabled on Turbo/Sleep mode too for some air conditioner model..

Control form2-Timer(on) setting

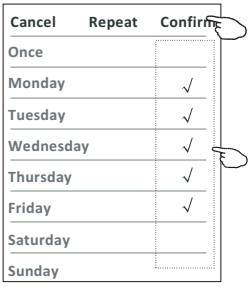
1.Tap the Timer button.
2.Tap + in the upper right corner of the Timer main screen.
3.Choose the Time/Repeat/Switch OFF then tap Save.
4.The timer(off) will appear on the Timer main screen.



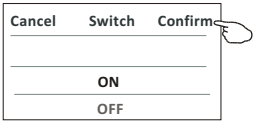


Slide up or down to select time

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

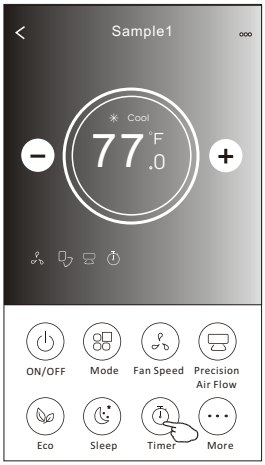


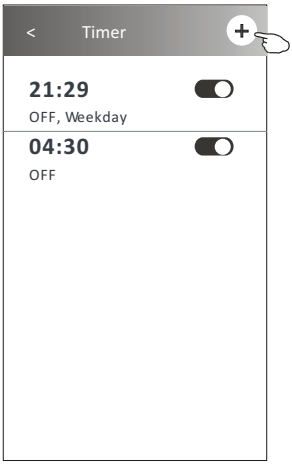
Tap Switch> then slide the screen to choose ON and Confirm.



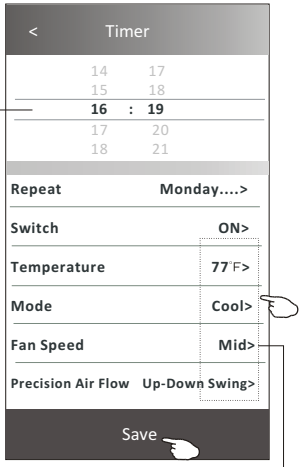
Control form2-Timer(off) setting

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.

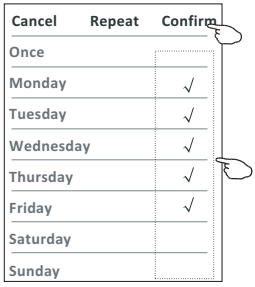




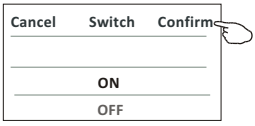
Slide up or down to select time



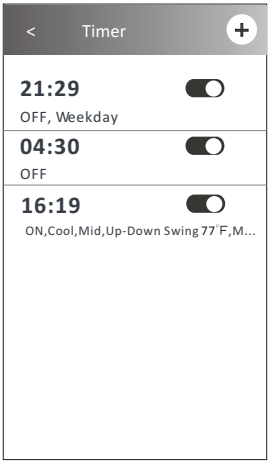
Tap repeat> then tap your desired repeat days orOnce, then tap Confirm your selection.



Tap Switch> then slide the screen to chooseON and Confirm.



Tap Temperature/Mode/Fan Speed/ Air Flow > oneby one then setas your desired as mentionedon the previous chapter and tapConfirm the setting.

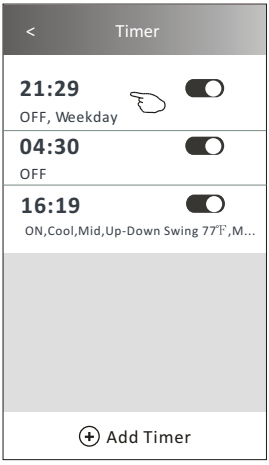


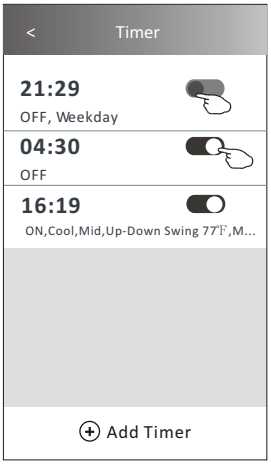
Control form2-Timer management

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.

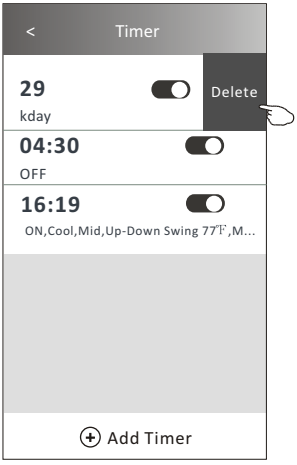
3.Delete the Timer:
Slide the list bar of the Timer from right to left until Delete button appear, then tap delete.





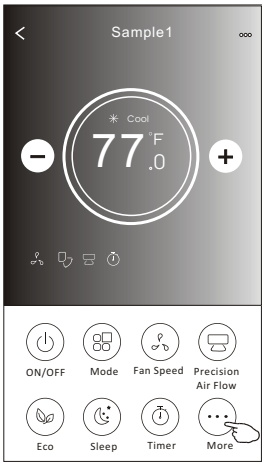
Slid left to disable the Timer.

Slid right to enable the Timer.



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 if it is available on the screen.

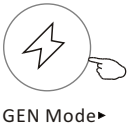
4. Tap the " Anti-Mildew " button to activate the Anti-Mildew function, if it is available on the screen.

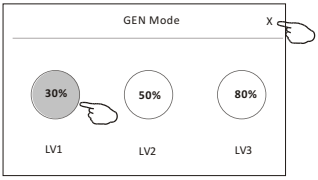
After AC turning off , it will start drying , reduce residual moisture and prevent mould, after function finish, it will automatically turn off.

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.

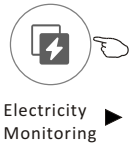
6. Tap the "GEN Mode" button, if it is available on the screen.
In this Mode, you can choose one of the three levels of current.
The air conditioner will maintain proper current to save energy.

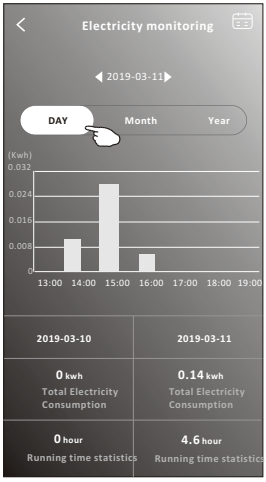


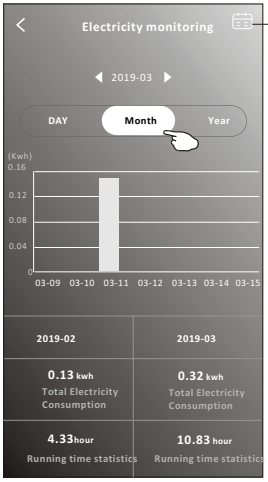


Control form2-More functions

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







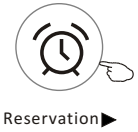
You can tap this button to pop up the calender then select the date.

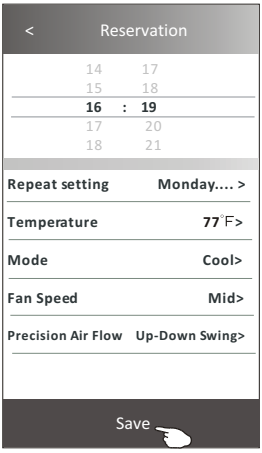
8. Tap the " " button, if it is available on the screen.

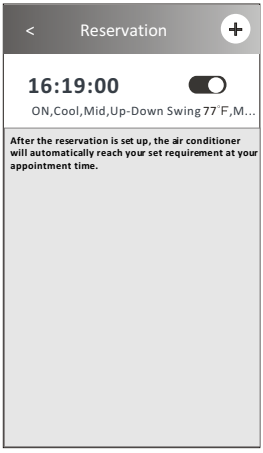
Check the details of the Self-Cleaning function on User Manual.

9. Tap the "8℃ Heat" button , if it is available on the screen.
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.



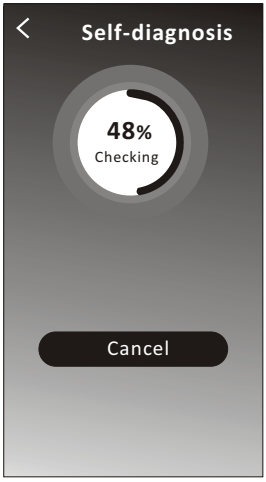


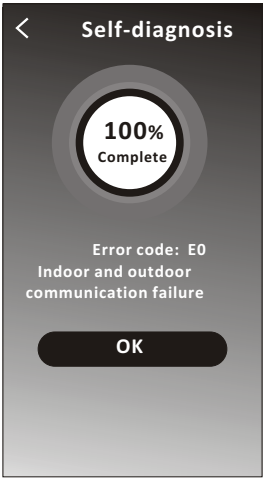


Control form2-More functions

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.





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

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

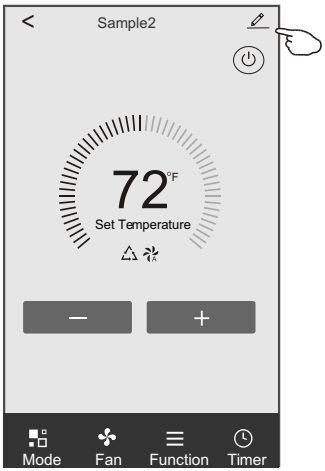
13. Tap the "  " button if it is available on the screen.

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

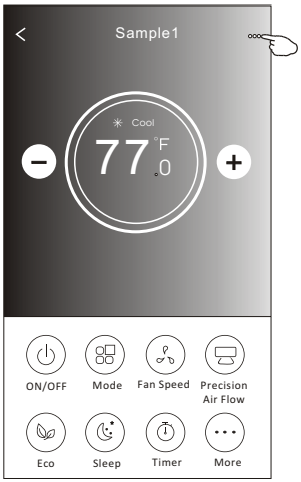
Device details and management

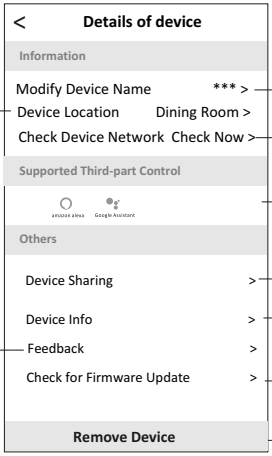
Tap ✎ on control form1 or tap ... on control form2 , get into the device details screen.
Here you can get some useful information and sharing the device to other accounts.
Check the following pictures and instructions carefully.

Control form1



Control form2





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.

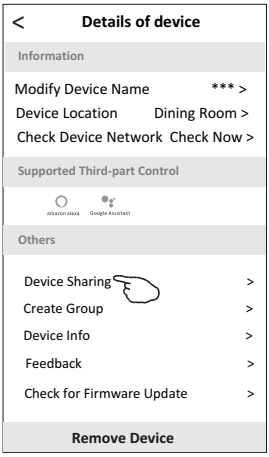
Check and update the firmware

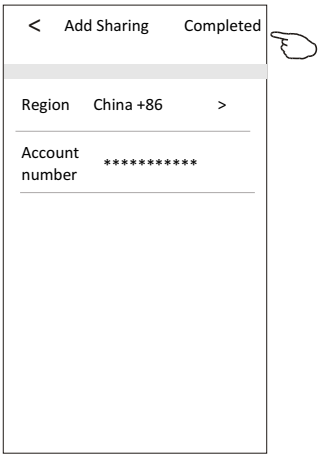
Tap to remove the device and the device will be reset automatically once be deleted.

Device details and management

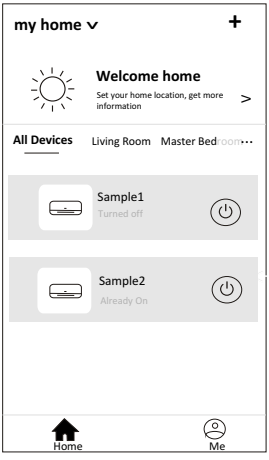
How to share the devices to other accounts?

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.





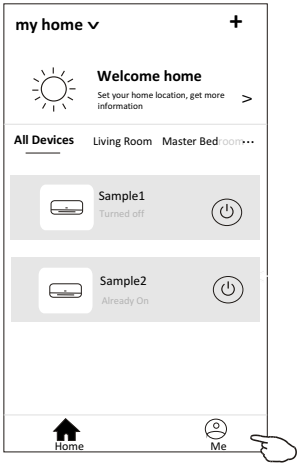
Hold the bar about 3s then you can delete the sharing account.

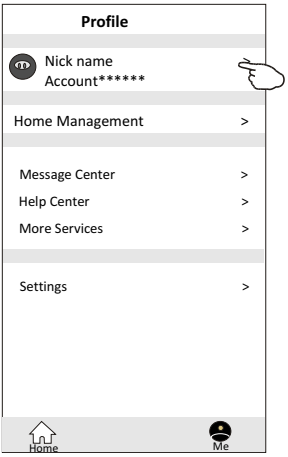


Hold on and slide down to refresh the device list

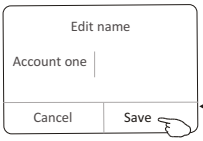
Account management

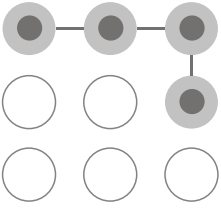
Account Profile setting



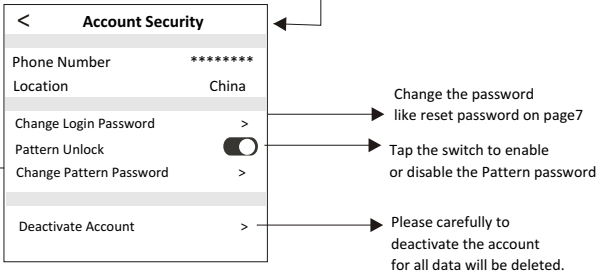


Change the nick name of your account





Set a pattern password for launching the APP

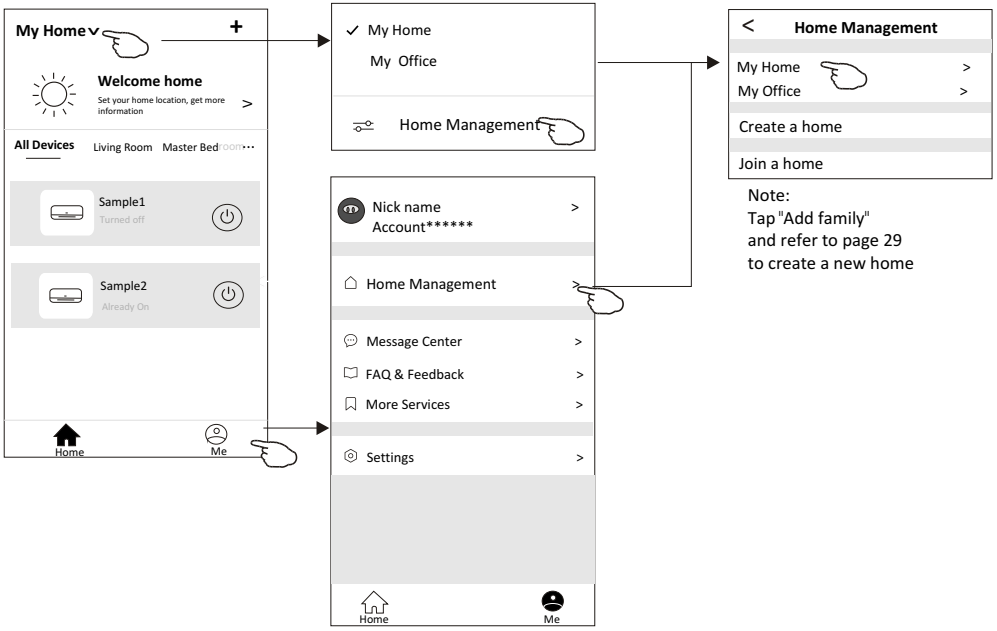


Account management

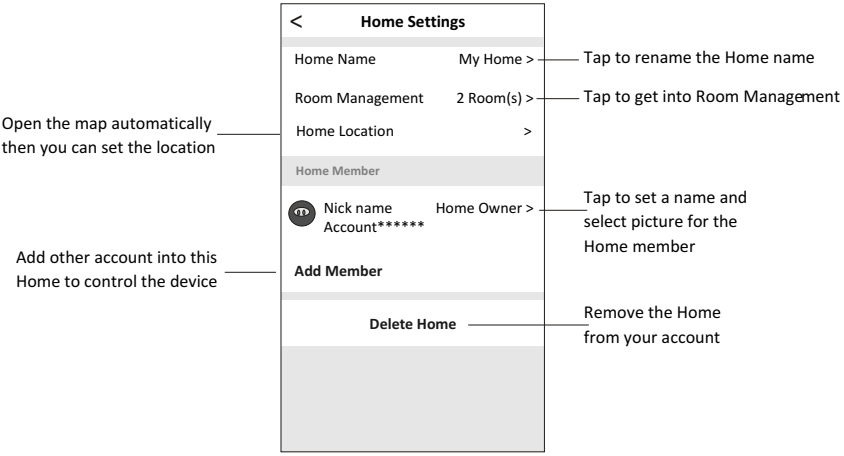
Home(Family) management

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 Homes in the Home list and get into Home Settings screen.



3.Set the Home as the following indicators.



Notice

1. **For technical update, there is maybe deviation of the actual items from what is on the manual. We express our apologies. 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. 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.

Comfort Kool - Limited Warranty Statement

The following limited warranty shall apply to only the Original Purchaser, at Original Installation Site, of the Mage USA Group products used without interruption by the Original Purchaser.

COMFORT KOOL PRODUCT LIMITED WARRANTY

Subject to the terms and conditions set forth below, Mage USA Group (the 'company') warrants the products purchased from Mage USA Group or from a Mage USA Group authorized reseller/retailer to be free from defects in materials or workmanship under normal consumer use during the respective Warranty Period set forth below. The Limited Warranty begins on the date of original installation (the date stated on the registration form. If products are not registered, the warranty period begins from the delivery time.)

In the event that the product is found to be defective in materials or workmanship during the applicable warranty period, Mage USA Group will provide part replacement, at its option, for the defective part. Mage USA Group will provide the following benefits, subject to the conditions stated below:

- **Parts and Accessories** - For a period of **ONE (1) YEAR** beginning on the date of this limited warranty applied. Mage USA Group will supply, at its option, either new, like kind or rebuilt replacement parts. Items are not otherwise covered or excluded under this warranty.

- **Labor Cost is NOT covered with this Limited Warranty**

- **Compressor** - For a period of **FIVE (5) YEARS** beginning on the date of this limited warranty applied. Mage USA Group will supply, at its option, either new, like kind or rebuilt replacement compressor(s).

- **Proper Installation** - This Limited Warranty applies only to Air Conditioners that are installed in accordance with all applicable building codes and permits, Mage USA Group's installation and operation instructions and good trade practices. Installation by contractors who are licensed for HVAC is strongly recommended and registration of product is only available for products installed by HVAC licensed contractor.

- Warranty applies only to products remaining at their original installation address.

- This warranty is non-transferable and assigned to the Owner named in the Product Registration.

Any replacement parts will be new or refurbished and the serviced unit will be warranted for the remainder of the original Warranty Period, or thirty (30) days from the date of shipment of the Product back to you, whichever is longer. For warranty services, please contact Mage USA Group by email at **support@mageair.com.**

REGISTRATION

Registration of products within 30 days of purchasing provides exact starting date of this limited warranty and streamlined warranty service. Registration form can be downloaded from www.mageair.com >>Information>> Mage USA Group Registration form. Please fill it out and email to **registration@mageair.com.**

LIMITATIONS OF WARRANTIES: ALL IMPLIED WARRANTIES AND/OR CONDITIONS (INCLUDING IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE OR PURPOSE) ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY, SOME STATES OR PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY OR CONDITION LASTS, SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESS WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON, WHAT SO EVER.

THIS WARRANTY DOES NOT COVER:

- Labor or other costs incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts, or replacement parts, or new units;
- Normal maintenance as outlined in the Installation and/or Owner's Manuals, including, but not limited to filter cleaning and/or replacement, and lubrication.
- Damage and/or repairs required as a consequence of faulty installation or application;
- Products sold and/or installed outside the continental United States, or products designed for markets other than the United States;
- Cosmetic blemishes or imperfections that do not affect functionality of the product;
- Product is not sold by Mage USA Group or its authorized retailers;
- Product that has a serial number or any part(s) thereof altered, defaced or removed in any way;
- Damage and/or failure caused by power surge, interruptions of electrical power, faulty power supply, unauthorized alteration, improper wiring or installation or fluctuations in electrical power; Damage as a result of freight transportation;
- Any cost to replace, refill or dispose of refrigerant, including the cost of refrigerant;
- Electricity or fuel costs, or increases in electricity or fuel costs from any reason whatsoever, including additional or unusual use of supplemental electric heat.
- Consumable components, such as air filters, are not covered under parts warranty;
- Product installation or set up, or removal of product from the location where it was originally installed;
- Parts not supplied or designated by Mage USA Group, or damages resulting from their use;
- Damage and/or failure caused by fire, water, wind, floods, corrosive environments, impact damage from projectiles, earthquake, theft, riot, vandalism, forced majeure, acts of war, or any and all acts of God;

Mage USA Group reserves the right to refuse and return, freight collect, Products (i) that are not covered by Mage USA Group Warranty; or (ii) for which there is no trouble found. Product delivered to Mage USA Group or a Mage USA Group Authorized Service Provider without proper authorization may be refused and returned, without prior notice, to the Customer freight collect.

Under no circumstances shall Mage USA Group be liable for any indirect, incidental, special, punitive or consequential damages or other economic loss, whether based on breach of warranty, breach of contract, tort or otherwise, even if Mage USA Group has been advised of the possibility of such damage. In no event shall MAGE USA Group liability exceed the purchase price of the product.

NO OTHER WARRANTIES:

The express warranty stated above is exclusive and in lieu of all other expressed or implied warranties and conditions (if any) including any created by any other statements, documentation, or packaging. No other warranties or conditions are made with respect to the product or warranty services by any person, including but not limited to Mage USA Group and its suppliers.

MODIFICATION:

No term or condition of this Limited Warranty may be amended or modified except by an instrument in writing executed by the authority of Mage USA Group. Mage USA Group holds the right to amend the terms and conditions of this Limited Warranty from time to time without notice.

Contact

To receive instructions for obtaining repair or replacement warranty services as well as general troubleshooting, you may call **844-576-0189**. Our office hours are Monday – Friday, 9AM to 5PM Pacific Time. You may also send the request by email to **support@mageair.com.**

Rev. March 2025