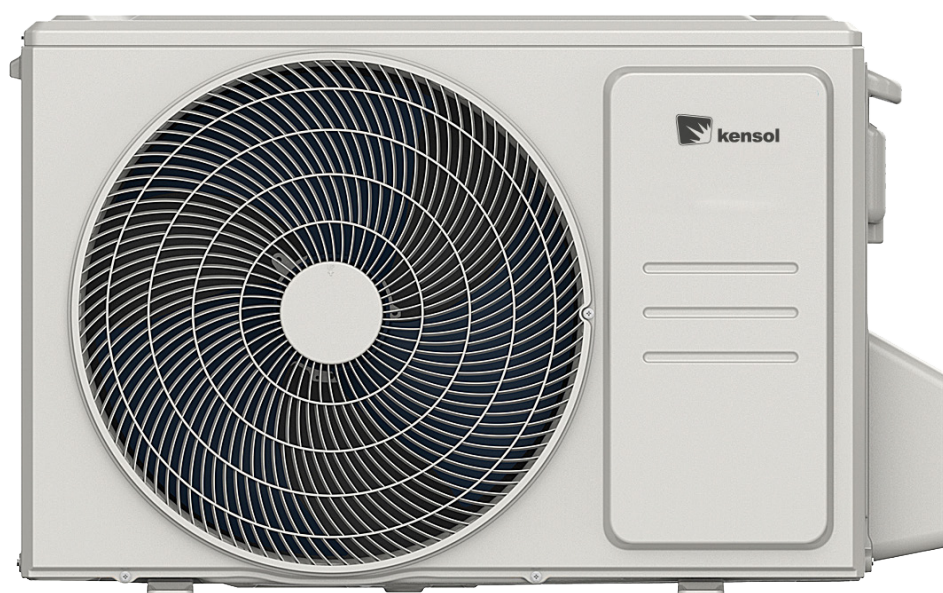
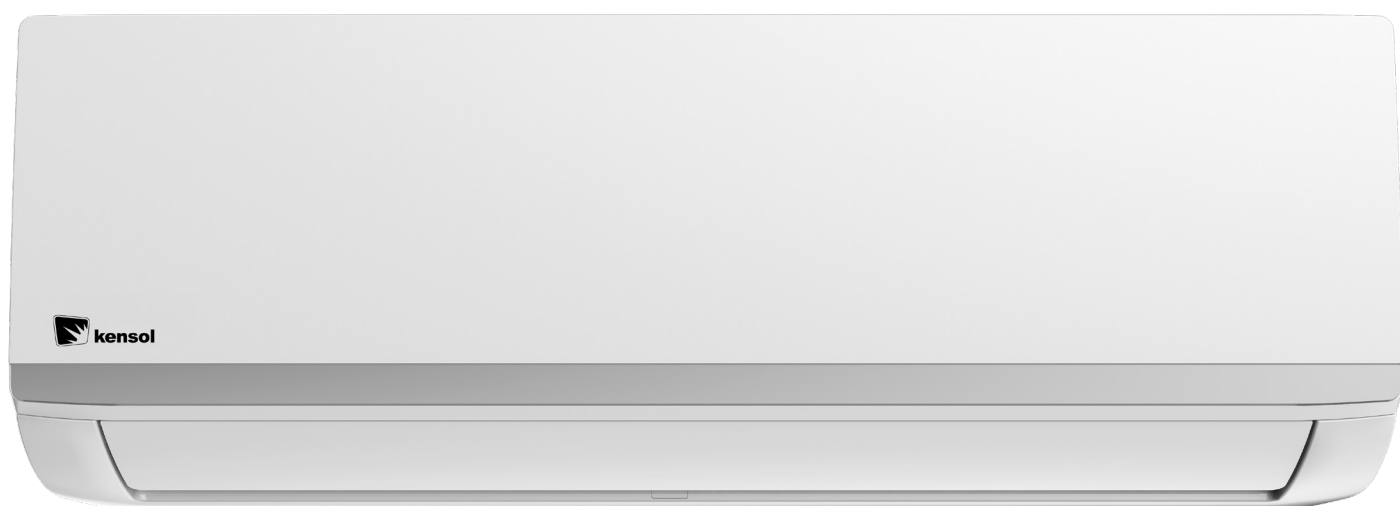




INSTALLATION MANUAL

KENSOL **VELES** **AIR CONDITIONER**

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Owner's and installation manual

Important note

Read this manual carefully before installing or operating your new air conditioning unit. Make sure to save this manual for future reference. Read safety precautions before operation and installation.

Safety precautions

Incorrect installation due to ignoring instructions can cause serious damage or injury. The seriousness of potential damage or injuries is classified as either a **WARNING** or a **CAUTION**.



WARNING!

This information indicates the possibility of personnel injury or loss of life.



CAUTION!

This information indicates the possibility of property damage or serious consequences.



WARNING!

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



INSTALLATION WARNINGS!

The appliance should only be installed and serviced by qualified personnel. Improper installation and servicing may cause leaks, electric shock or fire. Improper installation or repair may cause damage to the product or serious injury or even death.



WARNING FOR PRODUCT USE!

- If an abnormal situation arises (like a burning smell), immediately turn off the unit and disconnect the power and contact the service.
- Do not insert fingers, rods or other objects into the air inlet or outlet. This may cause injury, since the fan may be rotating at high speeds.
- Do not use flammable sprays such as hair spray, lacquer or paint near the unit. This may cause fire or combustion.
- Do not operate the air conditioner in places near or around combustible gases. Emitted gas may collect around the unit and cause an explosion.
- Do not operate your air conditioner in a wet room such as a bathroom or laundry room. Too much exposure to water can cause electrical components to short circuit.
- Do not expose your body directly to cool air for a prolonged period of time.
- In certain functional environments, such as kitchens, server rooms, etc., the use of specially designed air-conditioning units is highly recommended.



ELECTRICAL WARNING!

- Only use the specified power cord. If the power cord is damaged, it must be replaced by the authorised service in order to avoid a hazard.
- Keep the power plug clean. Remove any dust or grime that accumulates on or around the plug. Dirty plugs can cause fire or electric shock.
- Do not pull the power cord to unplug the unit. Hold the plug firmly and pull it from the outlet. Pulling directly on the cord can damage it, which can lead to fire or electric shock.
- Do not use extension cords, extend the power cord or plug other appliances into the same outlet as the air conditioner. Inaccurate electrical connections, insufficient insulation and insufficient voltages may cause a risk of electric shock or fire.
- The product must be properly grounded at the time of installation, or electrical shock may occur.
- For all electrical work, follow all local and national wiring standards, regulations, and the Installation Manual. Connect cables tightly, and clamp them securely to prevent external forces from damaging the terminal. Improper electrical connections can overheat and cause fire, and may also cause shock. All electrical connections must be made according to the Electrical Connection Diagram located on the panels of the indoor and outdoor units.
- All wiring must be properly arranged to ensure that the control board cover can close properly. If the control board cover is not closed properly, it can lead to corrosion and cause the connection points on the terminal to heat up, catch fire, or cause electrical shock.
- In the event of connecting power to fixed wiring it is essential to install an all-pole disconnection device which has at least 3 mm clearances in all poles, and has a leakage current that may exceed 10 mA. The residual current device (RCD) must have a rated residual operating current not exceeding 30 mA. These components must be incorporated into the fixed wiring in accordance with the relevant wiring rules.



CLEANING AND MAINTENANCE WARNINGS!

- Turn off the device and disconnect the power before cleaning. Failure to do so can cause electrical shock.
- Do not clean the air conditioner with excessive amounts of water.
- Do not clean the air conditioner with combustible cleaning agents. Combustible cleaning agents can cause fire or deformation.



WARNING FOR PRODUCT INSTALLATION!

- Installation must be performed by an authorized dealer or specialist. Defective installation can cause water leakage, electrical shock, or fire.
- Installation must be performed according to the installation instructions.
- Contact an authorized service technician for repair or maintenance of this unit. This appliance shall be installed in accordance with national wiring regulations.
- Only use the included accessories, parts, and specified parts for installation. Using non-standard parts can cause leakage, electrical shock, fire, and can cause the unit to fail.
- Install the unit in a firm location that can support the unit's weight. If the chosen location cannot support the unit's weight, or the installation is not done properly, the unit may drop and cause serious injury and damage.
- Install drainage piping according to the instructions in this manual. Improper drainage may cause water damage to your home and property.
- For units that have an auxiliary electric heater, do not install the unit within 1 meter (3 feet) of any combustible materials.
- Do not install the unit in a location that may be exposed to combustible gas leaks. If combustible gas accumulates around the unit, it may cause fire.
- Do not turn on the power until all work has been completed.
- When moving or relocating the air conditioner, consult experienced service technicians for disconnection and reinstallation of the unit.



CAUTION!

- Turn off the air conditioner and disconnect the power if you are not going to use it for a long time.
- Turn off and unplug the unit during storms.
- Make sure that water condensation can drain unhindered from the unit.
- Do not operate the air conditioner with wet hands. This may cause electric shock.
- Do not use the device for any other purpose than its intended use.
- Do not climb onto or place objects on top of the outdoor unit.
- Do not allow the air conditioner to operate for long periods of time with doors or windows open, or if the humidity is very high.

Disposal

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

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

- Dispose of the appliance at designated municipal electronic waste collection facility.
- When buying a new appliance, the retailer will take back the old appliance free of charge.
- The manufacturer will take back the old appliance free of charge.
- Sell the appliance to certified scrap metal dealers.

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



Refrigerant precautions

Refrigerant R32 is classified as a flammable gas. Therefore, it is essential to exercise caution to avoid ignition sources near the air conditioner units. Under no circumstances should actions be taken that could lead to fire or sparks reaching areas where R32 refrigerant is present. Additionally, in case of malfunction or leakage, immediate cessation of device usage and summoning professional assistance is imperative.

R32 refrigerant is considered environmentally friendly due to its low ozone depletion potential. However, if leaked into the atmosphere, it can still contribute to climate change. Therefore, adherence to proper usage and maintenance procedures is necessary to minimize the risk of refrigerant leakage into the natural environment.

Installation, servicing, and maintenance of air conditioners should always be carried out by qualified and experienced technicians. Improper handling of refrigerants can pose serious health and safety hazards. We recommend regular inspections and maintenance of devices to ensure proper operation and minimize the risk of failures.

Detailed information, including the type and quantity of refrigerant, can be found in the device's product specification sheet.

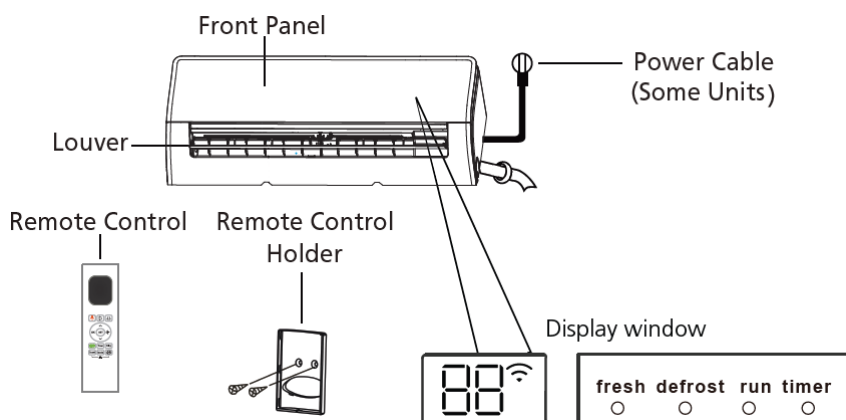


WARNING: fire hazard/flammable material

Unit specifications and features

Indoor unit display

Illustrations in this manual are for explanatory purposes. The actual shape of your indoor unit may be slightly different. The actual shape shall prevail.



Displays the temperature value set while the air conditioner is operating. In the event of a failure, it displays the appropriate error code.

fresh



Lights up when iClean feature is activated

defrost



Lights up when defrost feature is activated

run



Lights up when the unit is on

timer



Lights up when unit works with timer function

Operating temperature

When your air conditioner is used outside of the following temperature ranges, certain safety protection features may activate and cause the unit to disable.

Temperature	Mode		
	Cooling mode	Heating mode	Drying mode
Room temperature	16°C - 32°C	0°C - 30°C	10°C - 32°C
Outdoor temperature	-15°C - 50°C	-20°C - 24°C	0° - 50°C

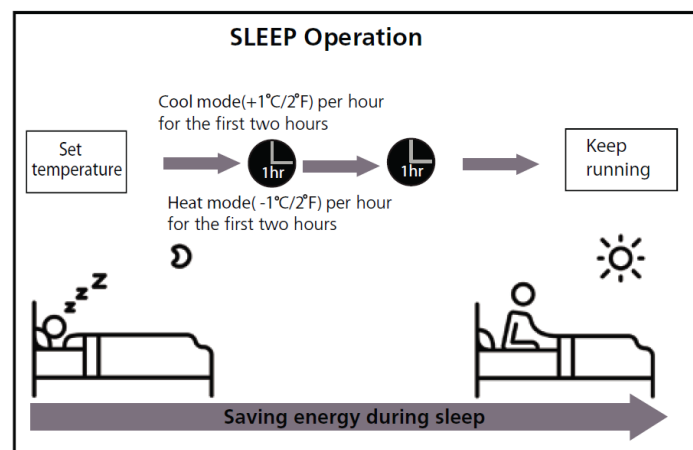
If the relative humidity of the room exceeds 80% the surface of the air conditioner may attract condensation. Please set the vertical air flow louver to its maximum angle (vertically to the floor), and set HIGH fan mode.

To further optimize the performance of your unit, do the following:

- Keep doors and windows closed.
- Limit energy usage by using TIMER ON and TIMER OFF functions.
- Do not block air inlets or outlets.
- Regularly inspect and clean air filters.

Other features

- Auto-restart - If the unit loses power, it will automatically restart with the prior settings once power has been restored.
- Refrigerant Leakage Detection - The indoor unit will automatically display “EC” when it detects refrigerant leakage.
- Louver Angle Memory - When turning on your unit, the louver will automatically resume its former angle.
- Anti-mildew - When turning off the unit from COOL, AUTO (COOL), or DRY modes, the air conditioner will continue to operate at very low power to dry up condensed water and prevent mildew growth.
- The i-Clean Technology - removes dust when it adheres to the heat exchanger by automatically freezing and then rapidly thawing the frost. The Active clean operation is used to produce more condensed water to improve the cleaning effect, and the cold air will blow out. After cleaning, the internal wind wheel then keeps operating with hot air to blow dry the evaporator, thus keeping the inside clean.
- The SLEEP function - is used to decrease energy use while you sleep (and don't need the same temperature settings to stay comfortable). This function can only be activated via remote control. SLEEP function is not available in FAN or DRY mode. Press the SLEEP button when you are ready to go to sleep. When in COOL mode, the unit will increase the temperature by 1°C after 1 hour, and will increase an additional 1°C after another hour. When in HEAT mode, the unit will decrease the temperature by 1°C after 1 hour, and will decrease an additional 1°C after another hour. The new temperature will be maintained for 6 hours, then the SLEEP programme will cease and the unit will return to the previous operating mode without changing the temperature setting.



Setting angle of airflow

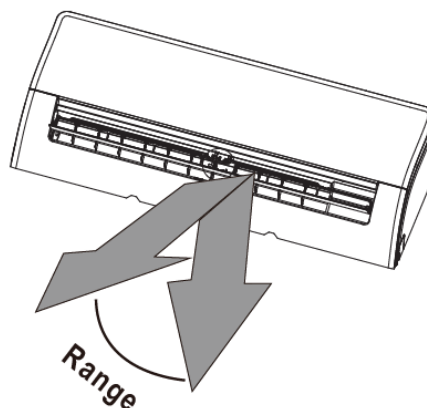


Fig. A

Vertical airflow settings (up and down)

While the unit is on, use the SWING button on the remote control to set the direction of airflow. Press the SWING button once to activate the louvre. Each time the button is pressed, the angle of the louvre will change by 6°. To make the blind move up and down continuously, press and hold the SWING button for 3 seconds. Please refer to the Remote Control Manual for details.

Horizontal airflow adjustment

Adjust the horizontal angle of the louvre manually. Set the desired direction by moving the deflector lever (Fig. B). CAUTION: Do not insert your fingers into the air inlet and outlet openings. Fan running at high speed inside the unit may cause injury.

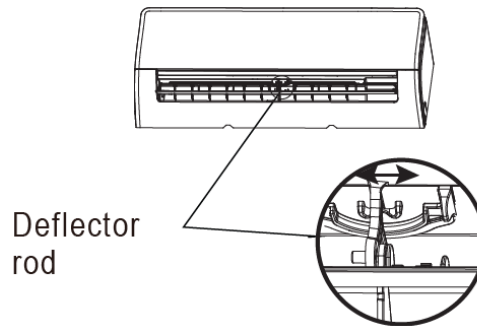


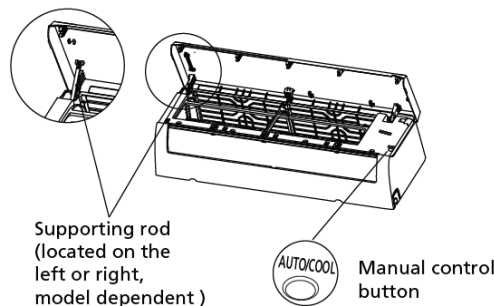
Fig. B

Manual operation

The manual button is intended for emergency operation only. Please do not use this function unless the remote control is lost and it is absolutely necessary. To restore regular operation, use the remote control to activate the unit. Unit must be turned off before manual operation.

To operate your unit manually:

1. Lift the front panel of the indoor unit.
2. Locate the manual control button on the right-hand side of the unit.
3. Press the manual control button one time to activate forced auto mode.
4. Press the manual control button again to activate forced cooling mode.
5. Press the manual control button a third time to turn the unit off.
6. Close the front panel.



Care and maintenance



WARNING!

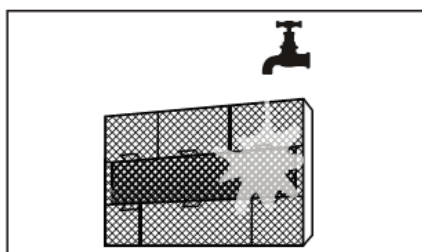
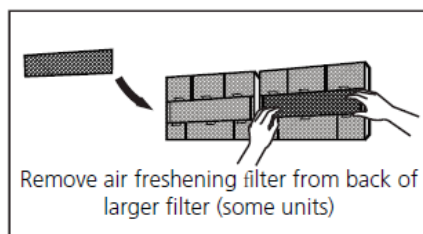
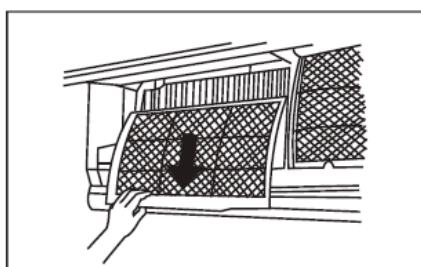
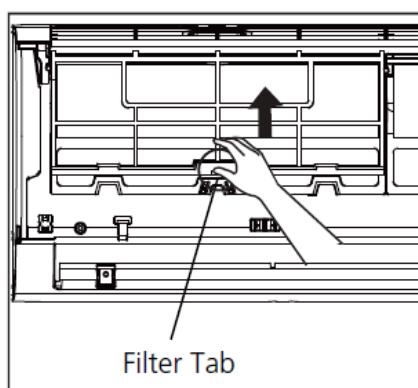
Always turn off your air conditioner system and disconnect its power supply before cleaning or maintenance.



CAUTION!

- Do not use chemicals or chemically treated cloths to clean the unit
- Do not use benzene, paint thinner, polishing powder or other solvents to clean the unit. They can cause the plastic surface to crack or deform.
- Do not use water hotter than 40°C to clean the front panel. This can cause the panel to deform or become discolored.

1. Lift the front panel of the indoor unit.
2. First press the tab on the end of the filter to loosen the buckle, lift it up, then pull it towards yourself.
3. Now pull the filter out.
4. If your filter has a small air freshening filter, unclip it from the larger filter. Clean this air freshening filter with a hand-held vacuum.
5. Clean the large air filter with warm, soapy water. Be sure to use a mild detergent.
6. Rinse the filter with fresh water, then shake off excess water.
7. Dry it in a cool, dry place, and refrain from exposing it to direct sunlight.
8. When dry, re-clip the air freshening filter to the larger filter, then slide it back into the indoor unit.
9. Close the front panel of the indoor unit.



Preparing for long periods of non-use:

- Clean all filters.
- Turn on fan function until unit dries out completely.
- Turn off the unit and disconnect the power.
- Remove batteries from remote control.

Pre-Season Inspection:

- Check for damaged wires.
- Clean all filters.
- Replace batteries in the remote control.
- Make sure nothing is blocking all outlets.



WARNING!

Any maintenance and cleaning of the outdoor unit should be performed by an authorized service. Any unit repairs should also be performed by an authorized service.

Troubleshooting



SAFETY PRECAUTIONS!

If ANY of the following conditions occurs, turn off your unit immediately!

- The power cord is damaged or abnormally warm
- You smell a burning odor
- The unit emits loud or abnormal sounds
- A power fuse blows or the circuit breaker frequently trips
- Water or other objects fall into or out of the unit

Do not attempt to fix these yourself! Contact an authorized service provider immediately!

Common issues

The following problems are not a malfunction and in most situations will not require repairs.

Unit does not turn on when pressing ON/OFF button

The Unit has a 3-minute protection feature that prevents the unit from overloading. The unit cannot be restarted within three minutes of being turned off.

The unit changes from COOL/HEAT mode to FAN mode

The unit may change its setting to prevent frost from forming on the unit. Once the temperature increases, the unit will start operating in the previously selected mode again.

The set temperature has been reached, at which point the unit turns off the compressor. The unit will continue operating when the temperature fluctuates again.

The indoor unit emits white mist

In humid regions, a large temperature difference between the room's air and the conditioned air can cause white mist.

Both the indoor and outdoor units emit white mist

When the unit restarts in HEAT mode after defrosting, white mist may be emitted due to moisture generated from the defrosting process.

The indoor unit makes noises

A rushing air sound may occur when the louver resets its position.

A squeaking sound may occur after running the unit in HEAT mode due to expansion and contraction of the unit's plastic parts.

Both the indoor unit and outdoor unit make noises	Low hissing sound during operation: This is normal and is caused by refrigerant gas flowing through both indoor and outdoor units.
	Low hissing sound when the system starts, has just stopped running, or is defrosting: This noise is normal and is caused by the refrigerant gas stopping or changing direction.
	Squeaking sound: Normal expansion and contraction of plastic and metal parts caused by temperature changes during operation can cause squeaking noises.
The outdoor unit makes noises	The unit will make different sounds based on its current operating mode.
Dust is emitted from either the indoor or outdoor unit	The unit may accumulate dust during extended periods of non-use, which will be emitted when the unit is turned on. This can be mitigated by covering the unit during long periods of inactivity.
The unit emits a bad odor	The unit may absorb odors from the environment (such as furniture, cooking, cigarettes, etc.) which will be emitted during operations.
	The unit's filters have become moldy and should be cleaned.
The fan of the outdoor unit does not operate	During operation, the fan speed is controlled to optimize product operation.
Operation is erratic, unpredictable, or unit is unresponsive	Interference from cell phone towers and remote boosters may cause the unit to malfunction.
	In this case, try the following:
	▪ Disconnect the power for a few minutes, then reconnect. ▪ Press the ON/OFF button on the remote control to restart operation.

NOTE: If problem persists, contact an authorised service or your customer service center. Provide them with a detailed description of the unit malfunction as well as your model number. When troubles occur, please check the following points before contacting an authorized service.

Problem	Possible causes	Solution
Poor Cooling Performance	Temperature setting may be higher than ambient room temperature	Lower the temperature setting
	The air filter is dirty	Remove the filter and clean it according to instructions
	The air inlet or outlet of either unit is blocked	Turn the unit off, remove the obstruction and turn it back on
	Doors and windows are open	Make sure that all doors and windows are closed while operating the unit
	Excessive heat is generated by sunlight	Close windows and curtains during periods of high heat or bright sunshine

The unit is not working	Power failure	Wait for the power to be restored
	The power is turned off	Turn on the power
	The fuse is burned out	Replace the fuse
	Remote control batteries are dead	Replace batteries
	The Unit's 3-minute protection has been activated	Wait three minutes after restarting the unit
	Timer is activated	Turn timer off

Indicator lamps continue flashing

Error code appears and begins with the letters as the following in the window display of indoor unit:

E(x), P(x), F(x), EH(xx), EL(xx), EC(xx), PH(xx), PL(xx), PC(xx)

The unit may stop operation or continue to run safely. If the indicator lamps continue to flash or error codes appear, wait for about 10 minutes. The problem may resolve itself.

If not, disconnect the power, then connect it again. Turn the unit on.

If the problem persists, disconnect the power and contact your authorized service.

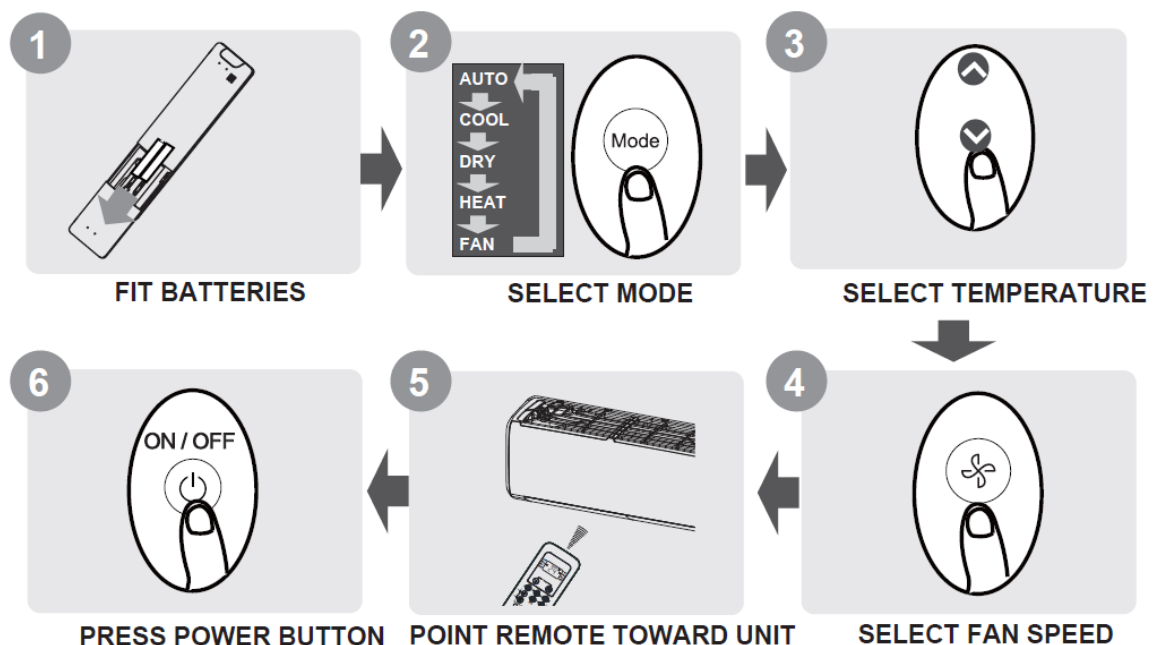
NOTE: If your problem persists after performing the checks and diagnostics above, turn off your unit immediately and contact an authorized service.

Remote control operation

Remote controller specifications

Rated voltage	3.0V (Dry batteries R03/LR03×2)
Signal receiving range	8m
Environment	-5°C~60°C

Quick start guide



Not sure what a function does?

Refer to the How to Use Basic Functions and How to Use Advanced Functions sections of this manual for a detailed description of how to use your air conditioner.

Special note

- Button designs on your unit may differ slightly from the example shown.
- If the indoor unit does not have a particular function, pressing that function's button on the remote control will have no effect.

Handling the remote controller

Inserting and replacing batteries

Put the batteries in the remote control before use.

1. Slide the back cover from the remote control downward, exposing the battery compartment.
2. Insert the batteries, paying attention to match up the (+) and (-) ends of the batteries with the symbols inside the battery compartment.
3. Slide the battery cover back into place.

Battery notes

For optimum product performance:

- Do not mix old and new batteries, or batteries of different types.
- Do not leave batteries in the remote control if you don't plan on using the device for more than 2 months.
- Do not dispose of batteries as unsorted municipal waste. Refer to local laws for proper disposal of batteries.

Tips for using remote control

- The remote control must be used within 8 meters of the unit.
- The unit will beep when a remote signal is received.
- Curtains, other materials and direct sunlight can interfere with the infrared signal receiver.
- Remove batteries if the remote will not be used for more than 2 months.

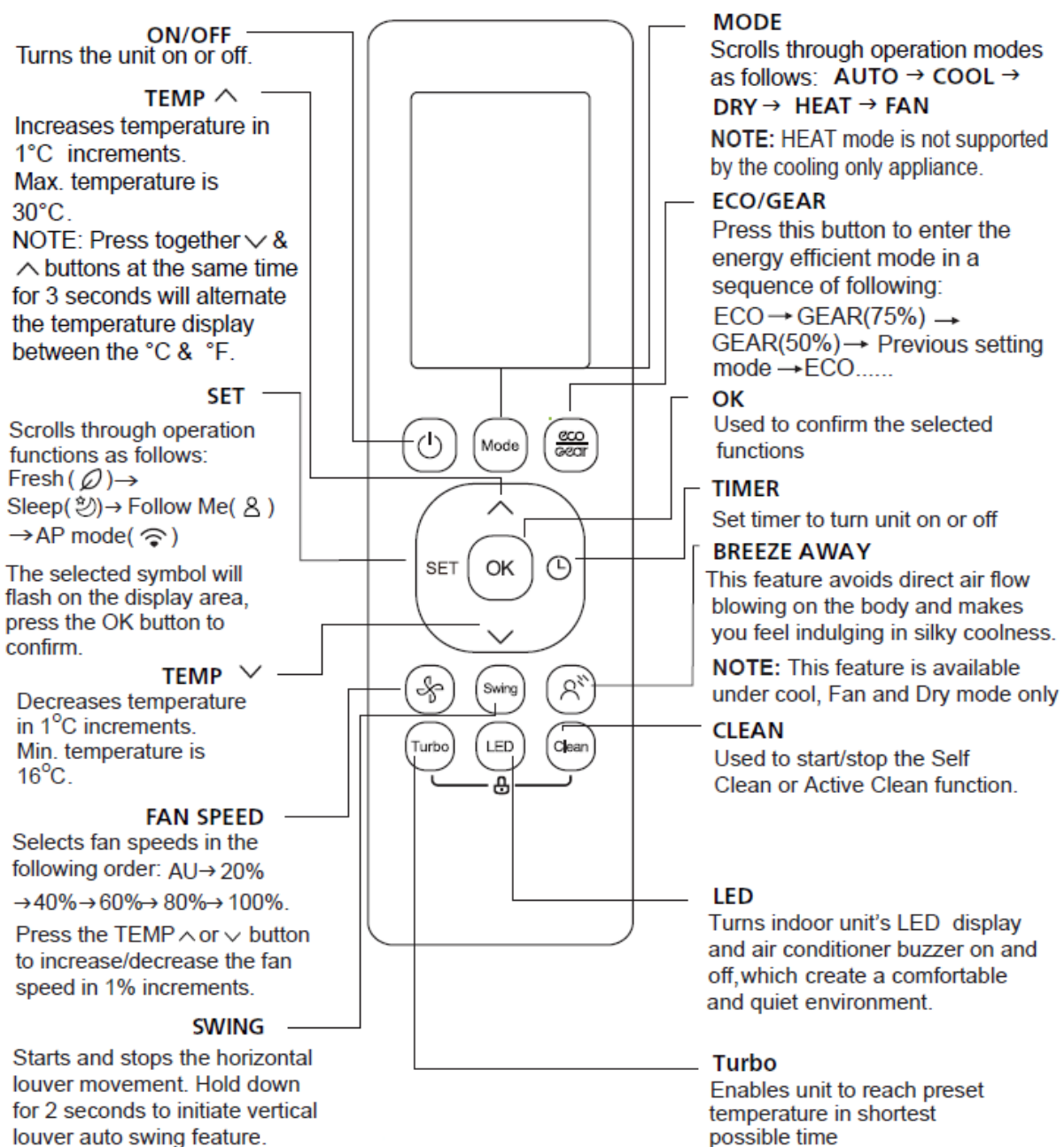
Notes for using remote control

The device could comply with the local national regulations.

This equipment has been tested and found to comply with the limits for a Class B digital device. 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:

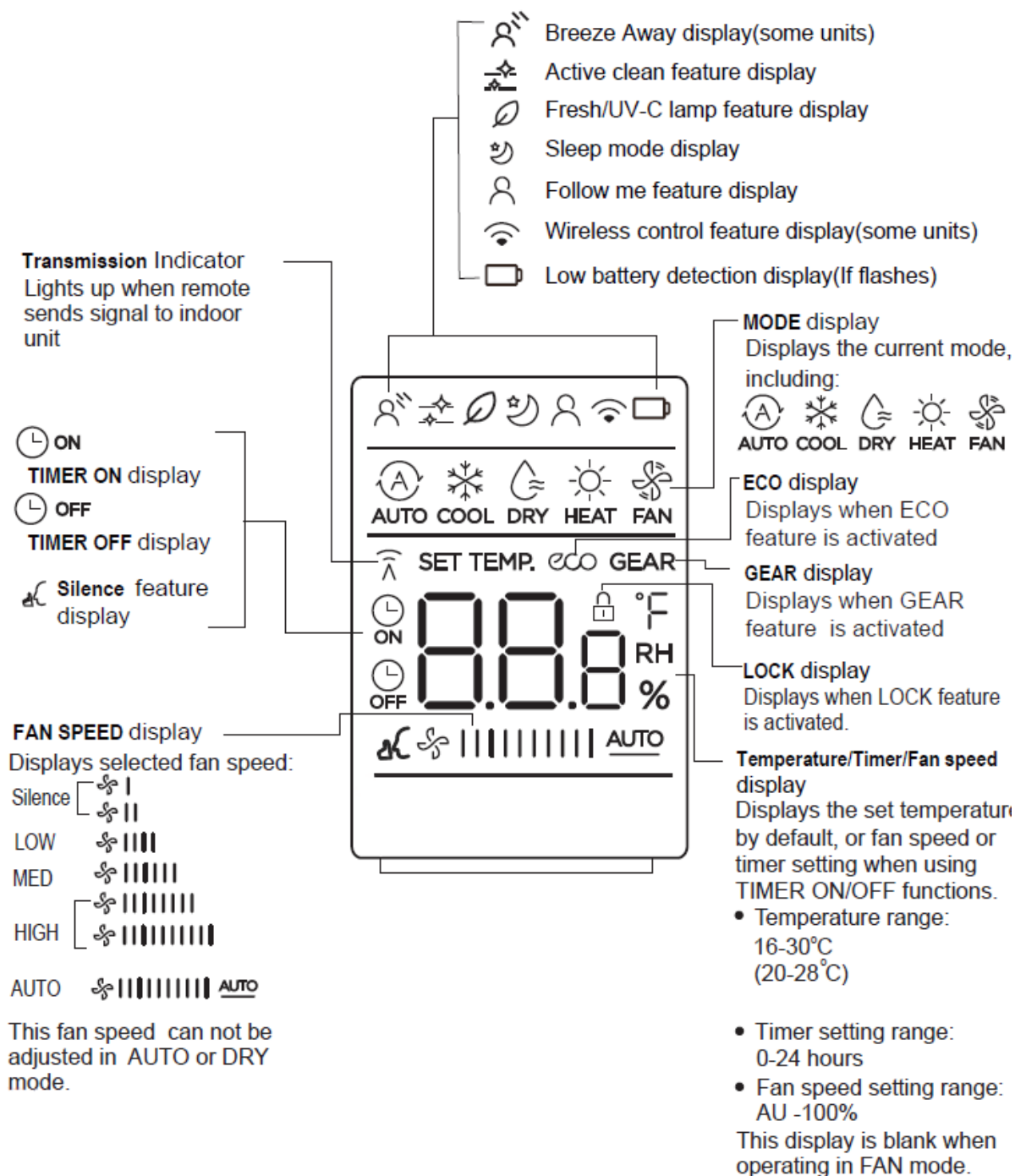
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Changes or modifications not approved by the party responsible for compliance could void user's authority to operate the equipment.

Buttons and functions



Remote screen indicators

Information is displayed when the remote controller is powered on.

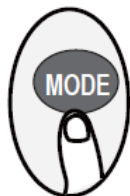


How to use basic functions

ATTENTION: Before operation, please ensure the unit is plugged in and power is available.

AUTO mode

Select AUTO mode



Set your desired temperature



Turn on the air conditioner

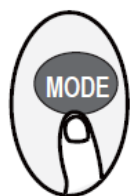


NOTE:

1. In AUTO mode, the unit will automatically select the COOL, FAN, or HEAT function based on the set temperature.
2. In AUTO mode, fan speed can not be set.

COOL or HEAT mode

Select COOL/HEAT mode



Set the temperature



Set the fan speed

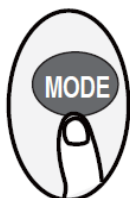


Turn on the air conditioner



DRY mode

Select DRY mode



Set your desired temperature



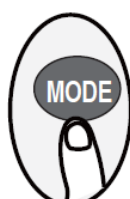
Turn on the air conditioner



NOTE: In DRY mode, fan speed can not be set since it has already been automatically controlled.

FAN mode

Select FAN mode



Set the fan speed



Turn on the air conditioner



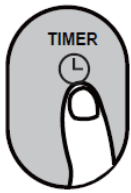
NOTE: In FAN mode, you can't set the temperature. As a result, no temperature displays on the remote screen.

Setting the TIMER

TIMER ON/OFF - Set the amount of time after which the unit will automatically turn on/off.

TIMER ON setting

Press TIMER button to initiate the ON time sequence.



Press Temp. up or down button for multiple times to set the desired time to turn on the unit.

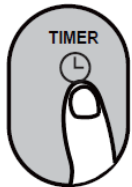


Point remote to unit and wait 1sec, the TIMER ON will be activated.



TIMER OFF setting

Press TIMER button to initiate the OFF time sequence.



Press Temp. up or down button for multiple times to set the desired time to turn off the unit.



Point remote to unit and wait 1sec, the TIMER OFF will be activated.

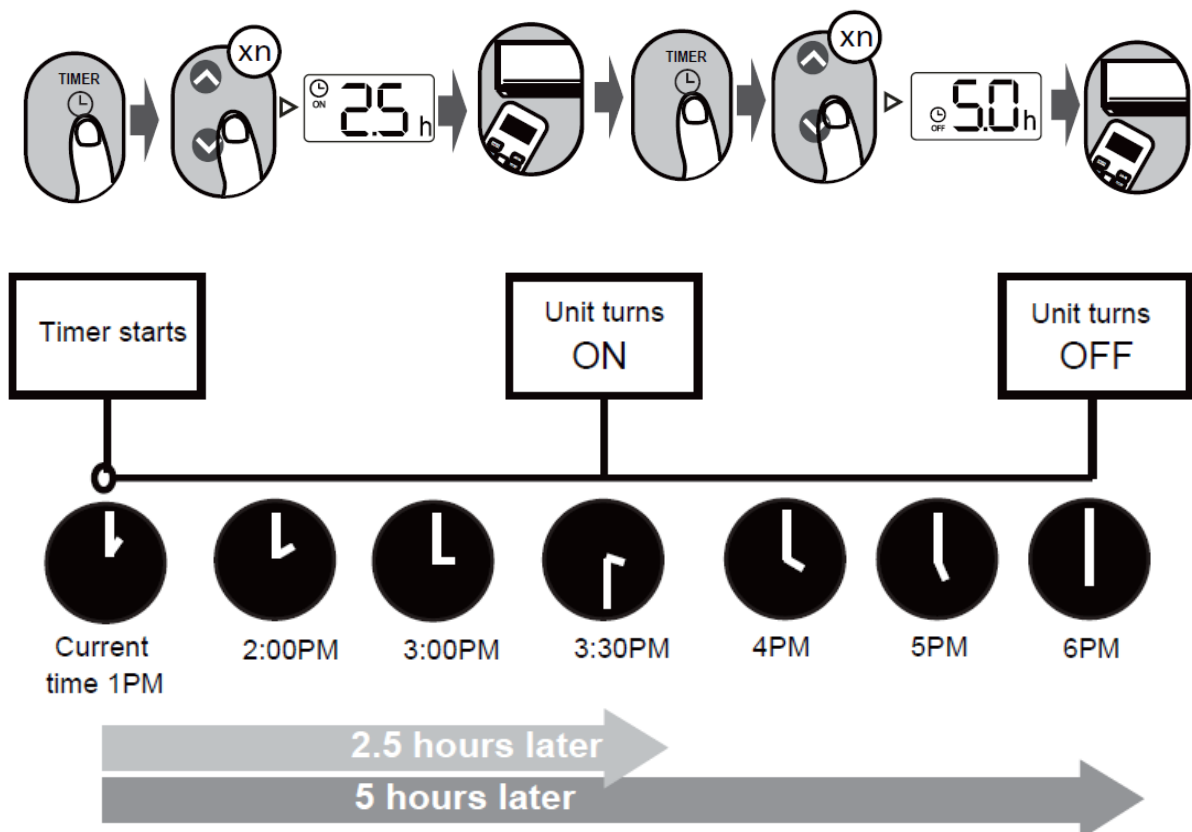


NOTE:

1. When setting the TIMER ON or TIMER OFF, the time will increase by 30 minutes increments with each press, up to 10 hours. After 10 hours and up to 24, it will increase in 1 hour increments. (For example, press 5 times to get 2.5h, and press 10 times to get 5h,) The timer will revert to 0.0 after 24.
2. Cancel either function by setting its timer to 0.0h.

TIMER ON & OFF setting (example)

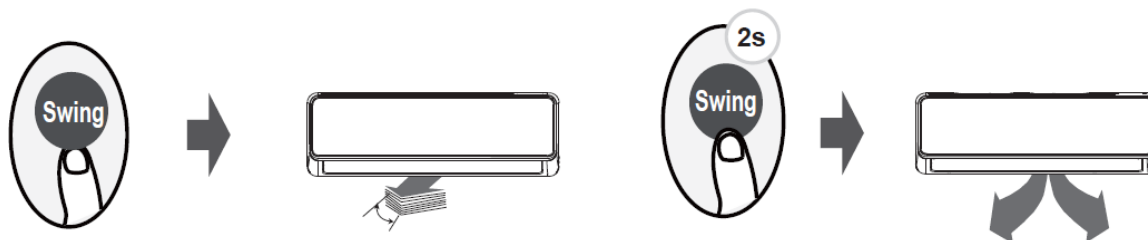
Keep in mind that the time periods you set for both functions refer to hours after the current time.



Example: If current time is 1:00PM, to set the timer as above steps, the unit will turn on 2.5h later (3:30PM) and turn off at 6:00PM.

How to use advanced functions

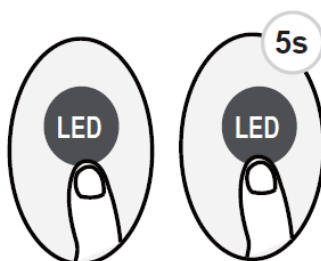
Swing function



Press Swing button. The horizontal louver will swing up and down automatically when pressing Swing button. Press again to make it stop.

Keep pressing this button more than 2 seconds, the vertical louver swing function is activated.

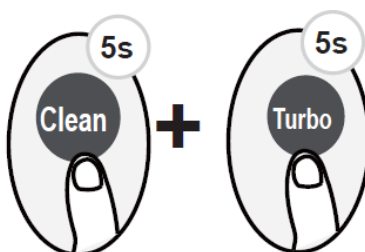
LED display



Press LED button to turn on and turn off the display on the indoor unit,

Keep pressing this button more than 5 seconds, the indoor unit will display the actual room temperature. Pressing more than 5 seconds again will revert back to display the setting temperature.

LOCK function



Press together the Clean button and Turbo button at the same time for more than 5 seconds to activate the Lock function. All buttons will not respond except pressing these two buttons for two seconds again to disable locking.

ECO/GEAR function



Press this button to enter the energy efficient mode in a sequence of following:

ECO → GEAR (75%) → GEAR (50%) → Previous setting mode → ECO

Note: This function is only available under COOL mode.

ECO operation:

Under cooling mode, press this button, the remote controller will adjust the temperature automatically to 24 °C/75 °F, fan speed of Auto to save energy (only when the set temperature is less than 24 °C/°75 F). If the set temperature is above 24 °C/°75 F, press the ECO button, the fan speed will change to Auto, the set temperature will remain unchanged.

NOTE:

Pressing the ECO/GEAR button, or modifying the mode or adjusting the set temperature to less than 24°C/75°F will stop ECO operation.

Under ECO operation, the set temperature should be 24°C/75°F or above, it may result in insufficient cooling. If you feel uncomfortable, just press the ECO button again to stop it.

GEAR operation:

Press the ECO/GEAR button to enter the GEAR operation as following:

75% (up to 75% electrical energy consumption) → 50% (up to 50% electrical energy consumption) → Previous setting mode.

Under GEAR operation, the setting temperature will revert back in the display screen after 3 seconds you select the desired electrical energy consumption operation.

SLEEP function

A mode of operation of the unit in which the temperature and fan speed are modified to provide conditions for a night's rest. This function can be activated using the remote control.

To activate, press the  button. To deactivate, press the  button again.

Note: The sleep function is not available in ventilation (FAN) and dehumidification (DRY) mode.

Silence function



Keep pressing the Fan button for more than 2 sec. to enable/disable the Silence function.

Due to low frequency operation of the compressor, it may result in insufficient cooling and heating capacity. Pressing ON/OFF, Mode, Sleep, Turbo or Clean button while operating will cancel the Silence function.

FP function



Press this button 2 times during one second under HEAT Mode with setting temperature of 16°C/60°F or to activate FP function.

Pressing ON/OFF, Sleep, Mode, Fan and Temp. button while operating will cancel this function.

TURBO Function



When you select Turbo feature in COOL mode, the unit will blow cool air with the strongest wind setting to jump-start the cooling process.

When you select Turbo feature in HEAT mode, the unit will blow heat air with the strongest wind setting to jump-start the heating process.

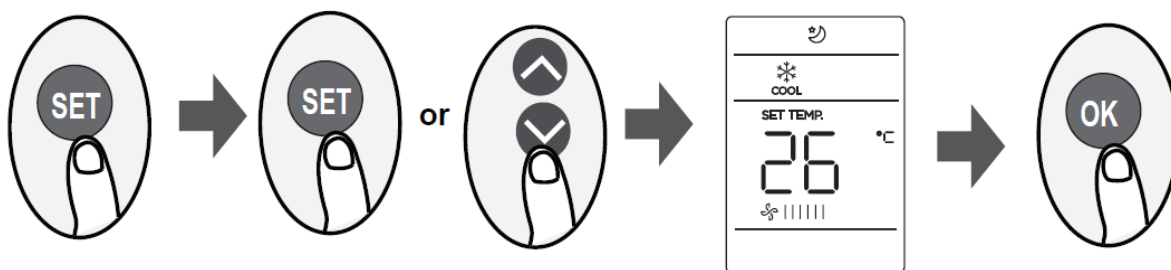
CLEAN function



Airborne bacteria can grow in the moisture that condenses around the heat exchanger in the unit. With regular use, most of this moisture is evaporated from the unit. By pressing the CLEAN button, your unit will clean itself automatically. After cleaning, the unit will turn off automatically. Pressing the CLEAN button mid-cycle will cancel the operation and turn off the unit. You can use CLEAN as often as you like.

Note: You can only activate this function in COOL or DRY mode.

SET function



- Press the SET button to enter the function setting, then press SET button or TEMP or TEMP button to select the desired function. The selected symbol will flash on the display area, press the OK button to confirm.
- To cancel the selected function, just perform the same procedures as above.
- Press the SET button to scroll through operation functions as follows:

Follow Me () → AP mode () → Follow Me () → ...

Follow me function ()

The FOLLOW ME function enables the remote control to measure the temperature at its current location and send this signal to the air conditioner in 3 minutes interval. When using AUTO, COOL or HEAT modes, measuring ambient temperature from the remote control (instead of from the indoor unit itself) will enable the air conditioner to optimize the temperature around you and ensure maximum comfort.

NOTE: Press and hold Turbo button for seven seconds to start/stop Follow Me function.

- If the feature is activated, ON displays for 3 seconds on the screen.
- If the feature is stopped, OFF displays for 3 seconds on the screen.
- While the feature is activated, pressing the ON/OFF button, shifting the mode or power failure will not cancel the Follow me function.

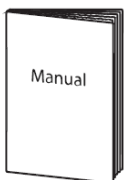
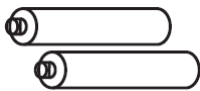
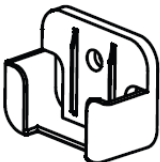
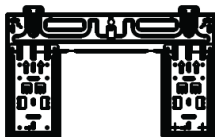
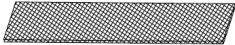
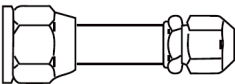
AP function ()

Choose AP mode to do wireless network configuration. For some units, it doesn't work by pressing the SET button. To enter the AP mode, continuously press the LED button seven times in 10 seconds.

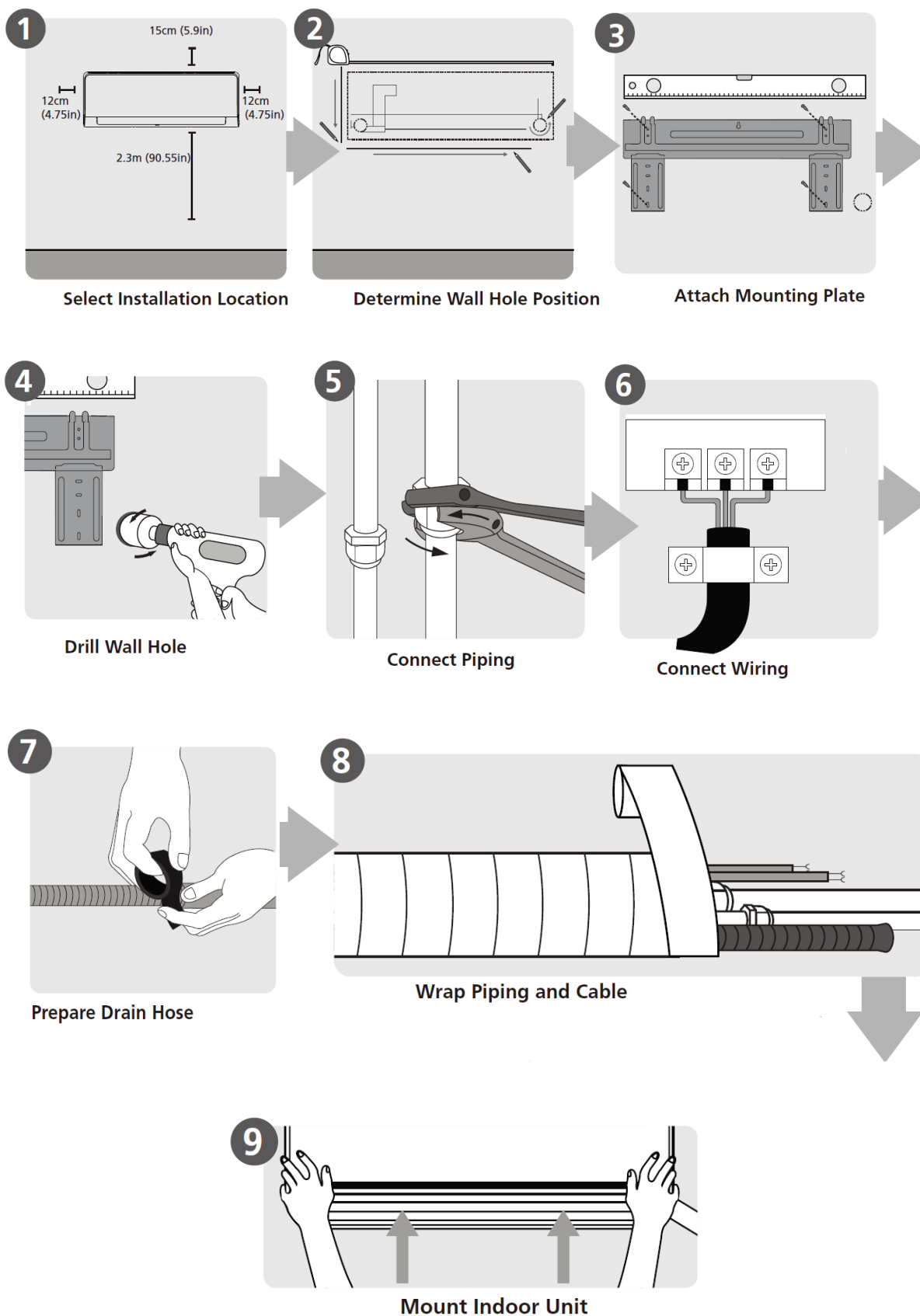
Installation manual

Accessories

The air conditioning system comes with the following accessories. Use all of the installation parts and accessories to install the air conditioner. Improper installation may result in water leakage, electrical shock and fire, or cause the equipment to fail. The items that are not included with the air conditioner must be purchased separately.

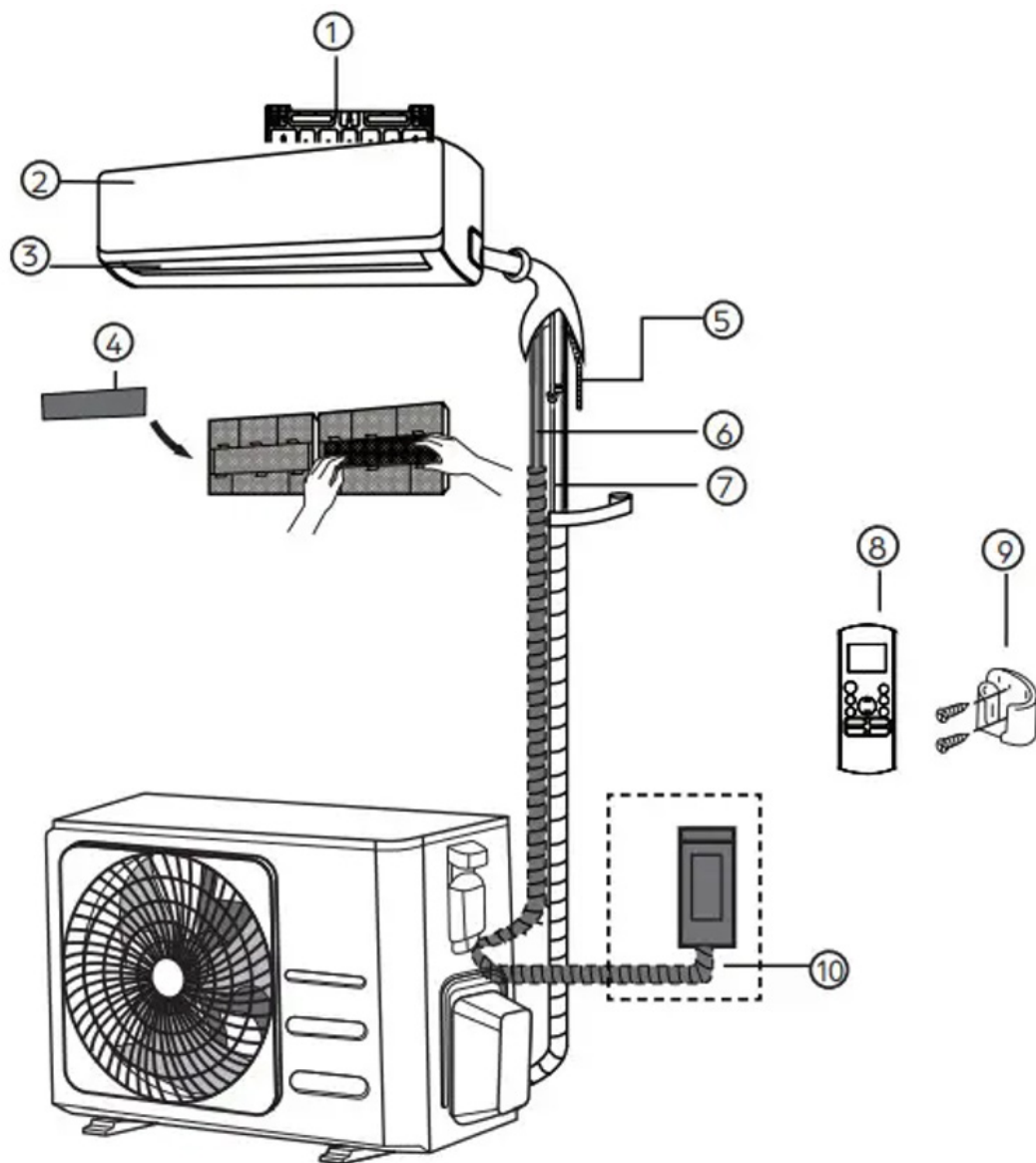
Name of the accessories	Quantity	Shape	Name of the accessories	Quantity	Shape
Manual	2-3		Remote controller	1	
Drain joint	1		Batteries	2	
Seal	1		Remote controller holder	1	
Mounting plate	1		Fixing screw for remote controller holder	2	
Anchor	5-8		Small filter	1-2	
Mounting plate fixing screw	5-8		Transfer connector	1	

Installation summary – indoor unit



Unit parts

NOTE: The installation must be performed in accordance with the requirement of local and national standards. The installation may be slightly different in different areas.



- | | |
|------------------------|-----------------------------|
| 1. Wall Mounting Plate | 6. Signal cable |
| 2. Front panel | 7. Refrigerant piping |
| 3. Louver | 8. Remote controller |
| 4. Functional filter | 9. Remote controller holder |
| 5. Drainage pipe | 10. Power cable |

NOTE: Illustrations in this manual are for explanatory purposes. The actual shape of your indoor unit may be slightly different. The actual shape shall prevail.

Indoor unit installation

Prior to installation

Before installing the indoor unit, refer to the label on the product box to make sure that the model number of the indoor unit matches the model number of the outdoor unit.

Step 1: Select installation location

Before installing the indoor unit, you must choose an appropriate location. The following standards will help you choose an appropriate location for the unit.

Proper installation locations meet the following standards:

- Good air circulation.
- Noise from the unit will not disturb other people.
- Firm and solid - the location will not vibrate.
- Strong enough to support the weight of the unit.
- A location at least one meter from all other electrical devices.

Do not install unit in the following locations:

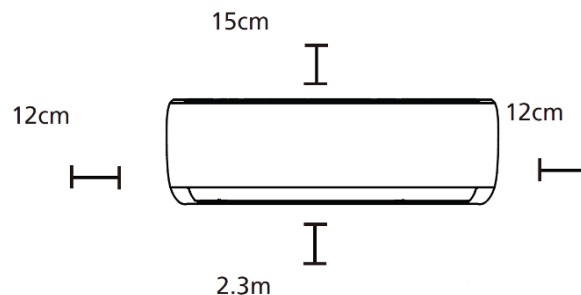
- Near any source of heat, steam, or combustible gas.
- Near flammable items.
- Near any obstacle that might block air circulation.
- Near the doorway.
- In a location subject to direct sunlight.

Note about wall hole:

If there is no fixed refrigerant piping:

While choosing a location, be aware that you should leave ample room for a wall hole (see Drill wall hole for connective piping step) for the signal cable and refrigerant piping that connect the indoor and outdoor units. The default position for all piping is the right side of the indoor unit (while facing the unit). However, the unit can accommodate piping to both the left and right.

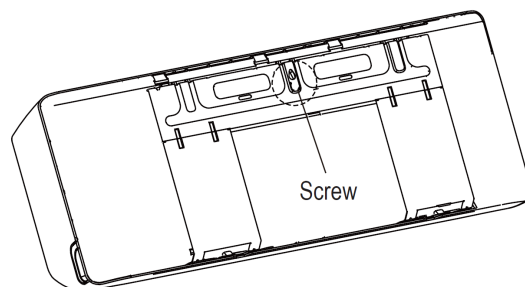
Refer to the following diagram to ensure proper distance from walls and ceiling:



Step 2: Attach mounting plate to wall

The mounting plate is the device on which you will mount the indoor unit.

- Remove the screw that attaches the mounting plate to the back of the indoor unit.



- Secure the mounting plate to the wall with the screws provided. Make sure that the mounting plate is flat against the wall.

Note for concrete or brick walls:

If the wall is made of brick, concrete, or similar material, drill 5 mm-diameter holes in the wall and insert the sleeve anchors provided. Then secure the mounting plate to the wall by tightening the screws directly into the clip anchors.

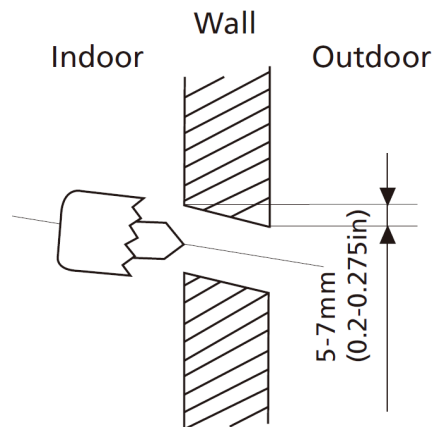
Step 3: Drill wall hole for connective piping

1. Determine the location of the wall hole based on the position of the mounting plate. Refer to Mounting Plate Dimensions.
2. Using a 65 mm or 90 mm (depending on models) drill, drill a hole in the wall. Make sure that the hole is drilled at a slight downward angle, so that the outdoor end of the hole is lower than the indoor end by about 5 mm to 7 mm. This will ensure proper water drainage.
3. Place the protective wall cuff in the hole. This protects the edges of the hole and will help seal it when you finish the installation process.

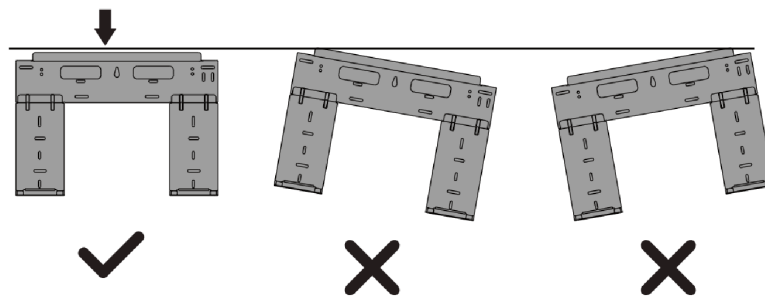


CAUTION!

When drilling the wall hole, make sure to avoid wires, plumbing, and other sensitive components.

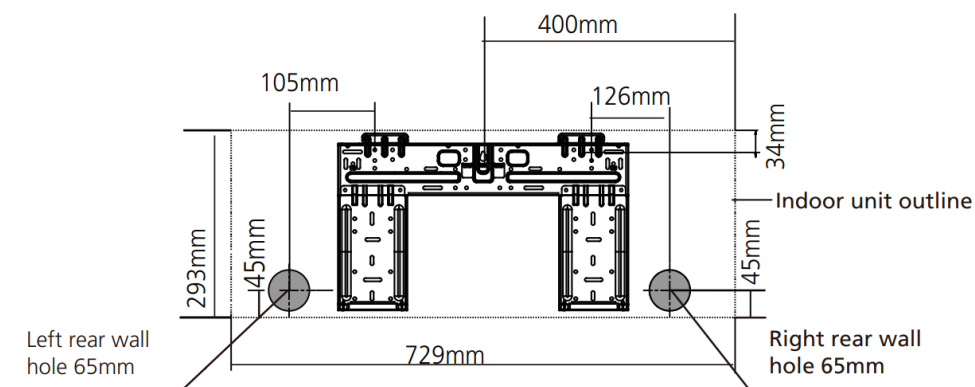


Correct orientation of mounting plate:

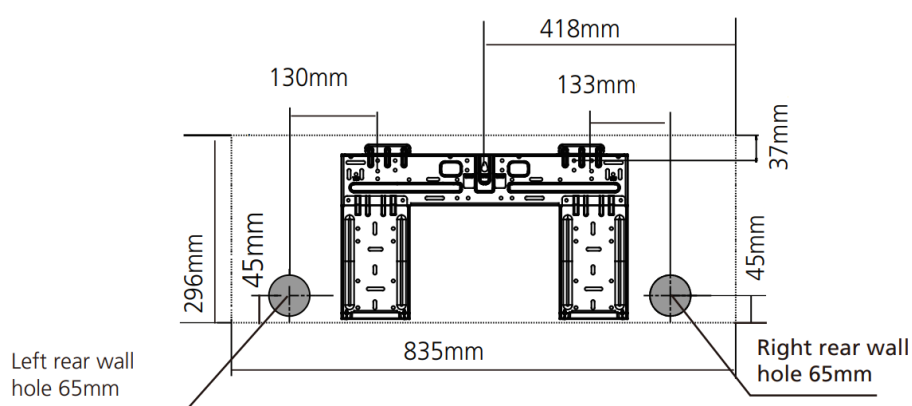


NOTE: When the gas side connective pipe is $\phi 16\text{mm}$ or more, the wall hole should be 90mm.

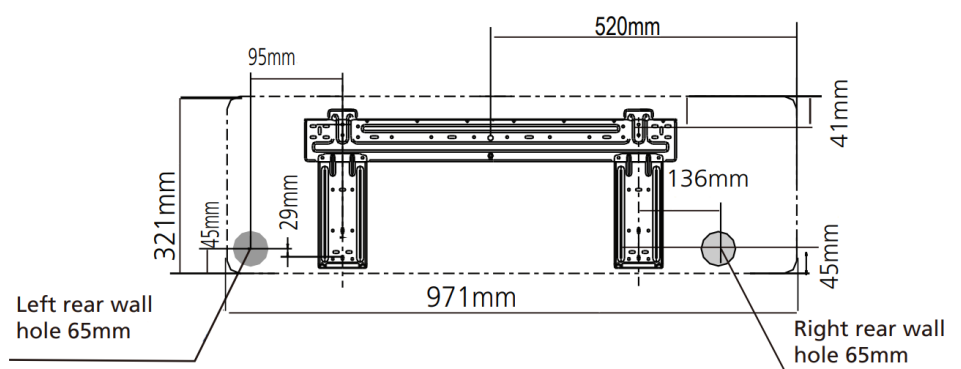
For model 2,6 kW:



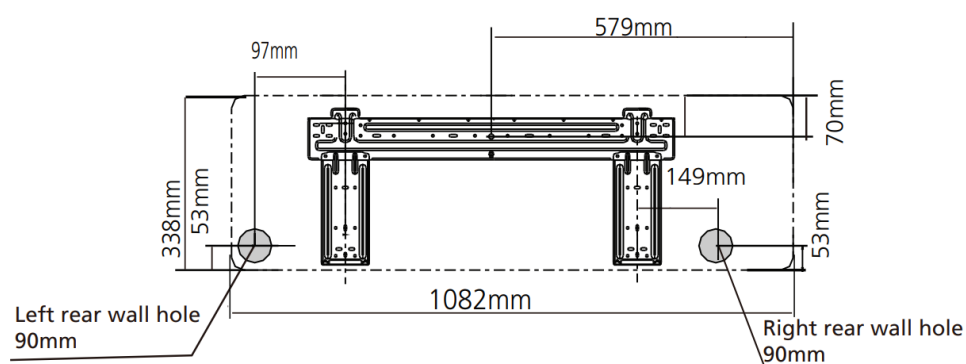
For model 3,5 kW:



For model 5,3 kW:



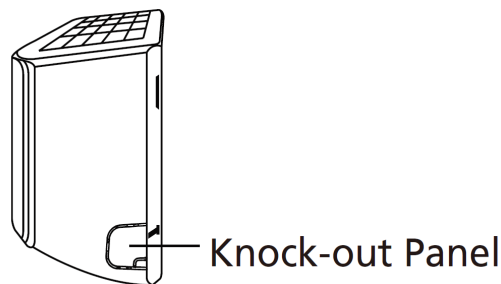
For model 7 kW:



Step 4: Prepare refrigerant piping

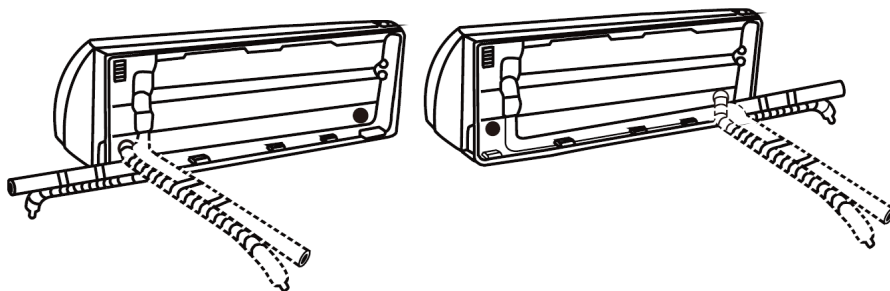
The refrigerant piping is inside an insulating sleeve attached to the back of the unit. You must prepare the piping before passing it through the hole in the wall.

1. Based on the position of the wall hole relative to the mounting plate, choose the side from which the piping will exit the unit.
2. If the wall hole is behind the unit, keep the knock-out panel in place. If the wall hole is to the side of the indoor unit, remove the plastic knock-out panel from that side of the unit. This will create a slot through which your piping can exit the unit. Use needle nose pliers if the plastic panel is too difficult to remove by hand. Grooves have been made in the knock-out panel in order to cut it conveniently. The diameter of the piping determines the size of the slot.



3. If existing connective piping is already embedded in the wall, proceed directly to the Connect Drain Hose step. If there is no embedded piping, connect the indoor unit's refrigerant piping to the connective piping that will join the indoor and outdoor units. Refer to the Refrigerant Piping Connection section of this manual for detailed instructions.

NOTE ON PIPING ANGLE: Refrigerant piping can exit the indoor unit from four different angles: Left-hand side, Right-hand side, Left rear, Right rear.



CAUTION!

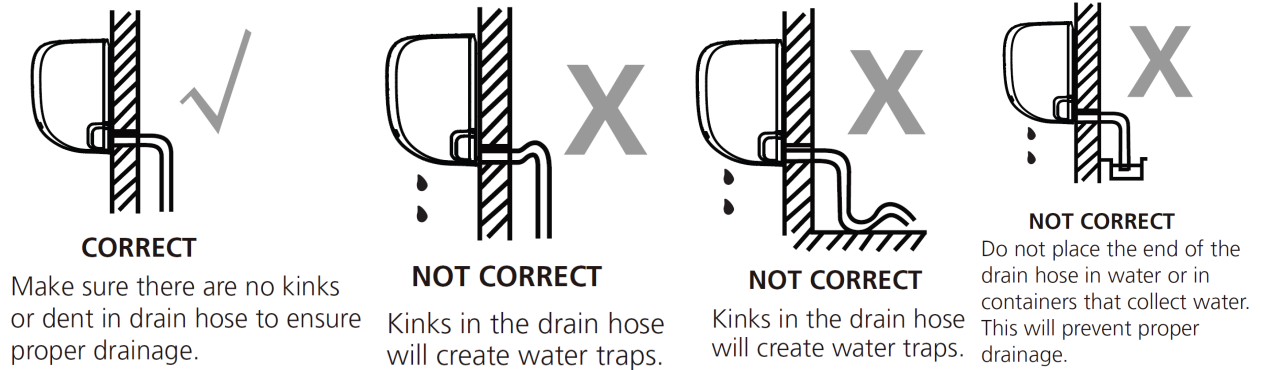
Be extremely careful not to dent or damage the piping while bending them away from the unit. Any dents in the piping will affect the unit's performance.

Step 5: Connect drain hose

By default, the drain hose is attached to the left hand side of the unit (when you're facing the back of the unit). However, it can also be attached to the right-hand side.

- To ensure proper drainage, attach the drain hose on the same side that your refrigerant piping exits the unit.
- Attach drain hose extension (purchased separately) to the end of drain hose.
- Wrap the connection point firmly with Teflon tape to ensure a good seal and to prevent leaks.
- For the portion of the drain hose that will remain indoors, wrap it with foam pipe insulation to prevent condensation.
- Remove the air filter and pour a small amount of water into the drain pan to make sure that water flows from the unit smoothly.

NOTE ON DRAIN HOSE PLACEMENT: Make sure to arrange the drain hose according to the following figures.



To prevent unwanted leaks you must plug the unused drain hole with the rubber plug provided.



WARNING!

Before performing any electrical or wiring work, read these regulations and turn off the main power to the system.

1. All wiring must comply with local and national electrical codes, regulations and must be installed by a licensed electrician.
2. All electrical connections must be made according to the Electrical Connection Diagram located on the panels of the indoor and outdoor units.
3. If there is a serious safety issue with the power supply, stop work immediately. Explain your reasoning to the client, and refuse to install the unit until the safety issue is properly resolved.
4. Power voltage should be within 90-110% of rated voltage. Insufficient power supply can cause malfunction, electrical shock, or fire.
5. If connecting power to fixed wiring, a surge protector and main power switch should be installed.
6. If connecting power to fixed wiring, a switch or circuit breaker that disconnects all poles and has a contact separation of at least 3 mm must be incorporated in the fixed wiring. The qualified technician must use an approved circuit breaker or switch.
7. Only connect the unit to an individual branch circuit outlet. Do not connect another appliance to that outlet.
8. Make sure to properly ground the air conditioner.
9. Every wire must be firmly connected. Loose wiring can cause the terminal to overheat, resulting in product malfunction and possible fire.
10. Do not let wires touch or rest against refrigerant tubing, the compressor, or any moving parts within the unit.
11. If the unit has an auxiliary electric heater, it must be installed at least 1 meter away from any combustible materials.
12. To avoid getting an electric shock, never touch the electrical components soon after the power supply has been turned off. After turning off the power, always wait 10 minutes or more before you touch the electrical components.

Step 6: Connect signal and power cables

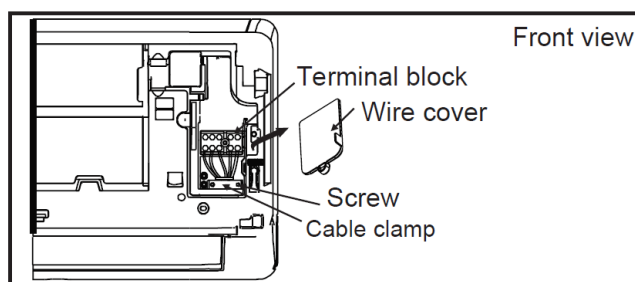
The signal cable enables communication between the indoor and outdoor units. You must first choose the right cable size before preparing it for connection. Recommended cable cross-section area 2.5 m² and fuse B16. The size of the power supply cable, signal cable, fuse, and switch needed is determined by the maximum current of the unit. The maximum current is indicated on the nameplate located on the side panel of the unit.



WARNING!

All wiring must be performed strictly in accordance with the wiring diagram located on the back of the indoor unit's front panel.

1. Open front panel of the indoor unit.
2. Using a screwdriver, open the wire box cover on the right side of the unit.



3. Unscrew the cable clamp below the terminal block and place it to the side.
4. Facing the back of the unit, remove the plastic panel on the bottom left-hand side.
5. Feed the signal wire through this slot, from the back of the unit to the front.
6. Facing the front of the unit, connect the wire according to the indoor unit's wiring diagram, connect the u-lug and firmly screw each wire to its corresponding terminal.



CAUTION!

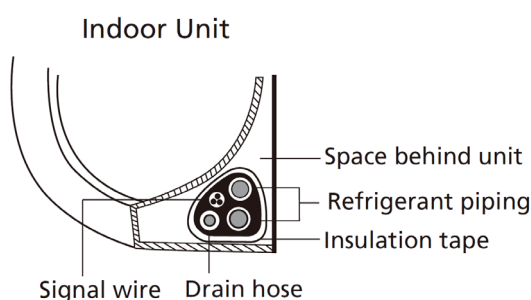
Do not mix up live and null wires. This is dangerous, and can cause the air conditioning unit to malfunction.

7. After checking to make sure every connection is secure, use the cable clamp to fasten the signal cable to the unit. Screw the cable clam down tightly.
8. Replace the wire cover on the front of the unit, and the plastic panel on the back.

Step 7: Wrap piping and cables

Before passing the piping, drain hose, and the signal cable through the wall hole, you must bundle them together to save space, protect them, and insulate them.

1. Bundle the drain hose, refrigerant pipes, and signal cable as shown below:



Make sure that the drain hose is at the bottom of the bundle. Putting the drain hose at the top of the bundle can cause the drain pan to overflow, which can lead to fire or water damage. While bundling these items together, do not intertwine or cross the signal cable with any other wiring.

2. Using adhesive vinyl tape, attach the drain hose to the underside of the refrigerant pipes.
3. Using insulation tape, wrap the signal wire, refrigerant pipes, and drain hose tightly together. Double-check that all items are bundled.

When wrapping the bundle, keep the ends of the piping unwrapped. You need to access them to test for leaks at the end of the installation process (refer to the Electrical Checks and Leak Checks section of this manual).

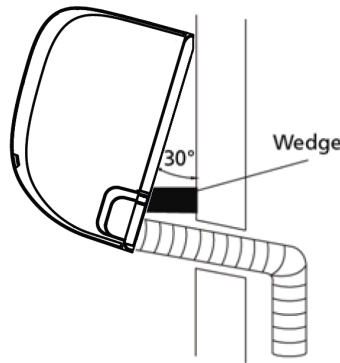
Step 8: Mount indoor unit

If you installed new connective piping to the outdoor unit, do the following:

1. If you have already passed the refrigerant piping through the hole in the wall, proceed to Step 4.
2. Otherwise, double-check that the ends of the refrigerant pipes are sealed to prevent dirt or foreign materials from entering the pipes.
3. Slowly pass the wrapped bundle of refrigerant pipes, drain hose, and signal wire through the hole in the wall.
4. Hook the top of the indoor unit on the upper hook of the mounting plate.
5. Check that unit is hooked firmly on mounting by applying slight pressure to the left and right-hand sides of the unit. The unit should not jiggle or shift.
6. Using even pressure, push down on the bottom half of the unit. Keep pushing down until the unit snaps onto the hooks along the bottom of the mounting plate.
7. Again, check that the unit is firmly mounted by applying slight pressure to the left and the right-hand sides of the unit.

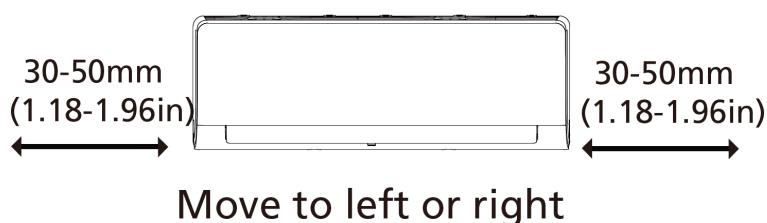
If refrigerant piping is already embedded in the wall, do the following:

1. Hook the top of the indoor unit on the upper hook of the mounting plate.
2. Use a bracket or wedge to prop up the unit, giving you enough room to connect the refrigerant piping, signal cable, and drain hose.



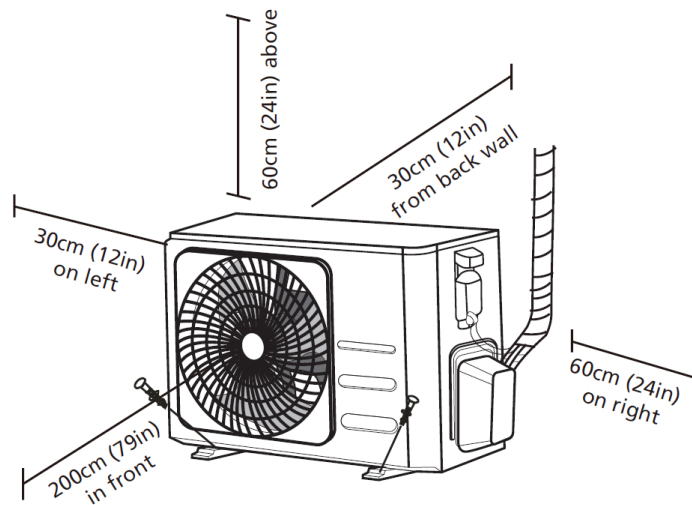
3. Connect drain hose and refrigerant piping (refer to Refrigerant Piping Connection section of this manual for instructions).
4. Keep the pipe connection point exposed to perform the leak test (refer to Electrical Checks and Leak Checks section of this manual).
5. After the leak test, wrap the connection point with insulation tape.
6. Remove the bracket or wedge that is propping up the unit.
7. Using even pressure, push down on the bottom half of the unit. Keep pushing down until the unit snaps onto the hooks along the bottom of the mounting plate.

Keep in mind that the hooks on the mounting plate are smaller than the holes on the back of the unit. If you find that you don't have ample room to connect assembled pipes to the indoor unit, the unit can be adjusted left or right by about 30-50 mm.



Outdoor unit installation

Install the unit in accordance with local codes and regulations, which may vary slightly between regions.



Step 1: Select installation location

Before installing the outdoor unit, you must choose an appropriate location. The following standards will help you choose an appropriate location for the unit:

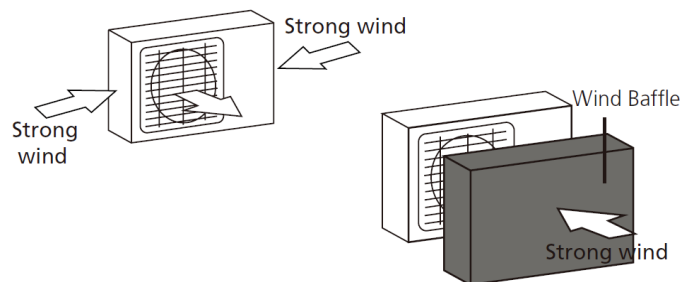
- Meets all spatial requirements shown in Installation Space Requirements above.
- Good air circulation and ventilation.
- Firm and solid—the location can support the unit and will not vibrate.
- Noise from the unit will not disturb others.
- Protected from prolonged periods of direct sunlight or rain.
- Where snowfall is anticipated, take appropriate measures to prevent ice buildup.

DO NOT install unit in the following locations:

- Near an obstacle that will block air inlets and outlets.
- Near a public street, crowded areas, or where noise from the unit will disturb others.
- Near animals or plants that will be harmed by hot air discharge.
- Near any source of combustible gas.
- In a location that is exposed to large amounts of dust.
- In a location exposed to excessive amounts of salty air.

Special considerations for extreme weather

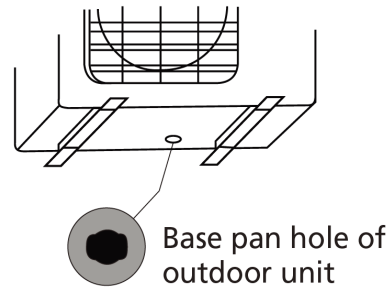
If the unit is exposed to heavy wind: Install the unit so that the air outlet fan is at a 90° angle to the direction of the wind. If needed, build a barrier in front of the unit to protect it from extremely heavy winds. See Figures below.



If the unit is frequently exposed to heavy rain or snow: Build a shelter above the unit to protect it from the rain or snow. Be careful not to obstruct the airflow around the unit.

Step 2: Install drain joint (heating mode)

Before bolting the outdoor unit in place, you must install the drain joint at the bottom of the unit. Connect a drain hose extension (not included) to the drain joint to redirect water from the unit during heating mode.



Step 3: Anchor outdoor unit

The outdoor unit can be anchored to the ground or to a wall-mounted bracket with a bolt (M10). Prepare the installation base of the unit according to the dimensions below. If you will install the unit on the ground or on a concrete mounting platform, do the following:

1. Mark the positions for four expansion bolts based on the dimensions chart.
2. Pre-drill holes for expansion bolts.
3. Place a nut on the end of each expansion bolt.
4. Hammer expansion bolts into the pre-drilled holes.
5. Remove the nuts from expansion bolts, and place the outdoor unit on bolts.
6. Put washer on each expansion bolt, then replace the nuts.
7. Using a wrench, tighten each nut until snug.

Remember to mount the device on vibration isolators and raise it above ground level.



WARNING!

When drilling into concrete, eye protection is recommended at all times.



CAUTION!

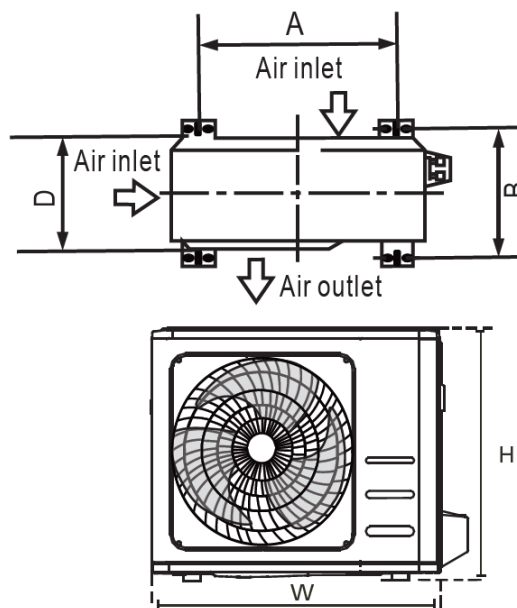
Make sure that the wall is made of solid brick, concrete, or of similarly strong material. The wall must be able to support at least four times the weight of the unit. Remember to mount the device on vibration isolators.

If you will install the unit on a wall-mounted bracket, do the following:

1. Mark the position of bracket holes based on dimensions chart.
2. Pre-drill the holes for the expansion bolts.
3. Place a washer and nut on the end of each expansion bolt.
4. Thread expansion bolts through holes in mounting brackets, put mounting brackets in position, and hammer expansion bolts into the wall.
5. Check that the mounting brackets are level.
6. Carefully lift the unit and place its mounting feet on brackets.
7. Bolt the unit firmly to the brackets.
8. If allowed, install the unit with rubber gaskets to reduce vibrations and noise.

Unit mounting dimensions

The following is a list of different outdoor unit sizes and the distance between their mounting feet. Prepare the installation base of the unit according to the dimensions below.



Model	Dimensions (mm) W x H x D	Distance A	Distance B
Veles 2.6, Veles 3.5	720x495x270	452	255
Veles 5.3	805x554x330	511	317
Veles 7	890x673x342	633	354

Step 4: Connect signal and power cables

The outside unit's terminal block is protected by an electrical wiring cover on the side of the unit. A comprehensive wiring diagram is printed on the inside of the wiring cover.



WARNING!

Before performing any electrical or wiring work, turn off the main power to the system.

Choose the right size of cable

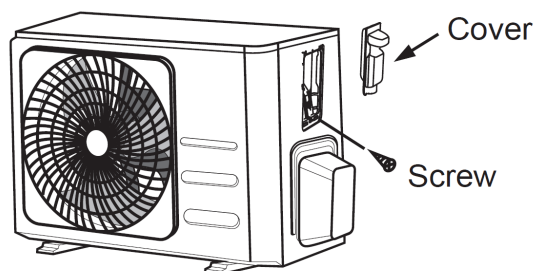
The size of the power supply cable, signal cable, fuse, and switch needed is determined by the maximum current of the unit. The maximum current is indicated on the nameplate located on the side panel of the unit.

1. Prepare the cable for connection:
 - a. Using wire strippers, strip the rubber jacket from both ends of cable to reveal about 40mm of the wires inside.
 - b. Strip the insulation from the ends of the wires.
 - c. Using a wire crimper, crimp u-lugs on the ends of the wires.

Pay attention to live wire. While crimping wires, make sure you clearly distinguish the Live ("L") Wire from other wires.

2. Unscrew the electrical wiring cover and remove it.
3. Unscrew the cable clamp below the terminal block and place it to the side.
4. Connect the wire according to the wiring diagram, and firmly screw the u-lug of each wire to its corresponding terminal.
5. After checking to make sure every connection is secure, loop the wires around to prevent rain water from flowing into the terminal.

6. Using the cable clamp, fasten the cable to the unit. Screw the cable clamp down tightly.
7. Insulate unused wires with PVC electrical tape. Arrange them so that they do not touch any electrical or metal parts.
8. Replace the wire cover on the side of the unit, and screw it in place.



Refrigerant piping connection

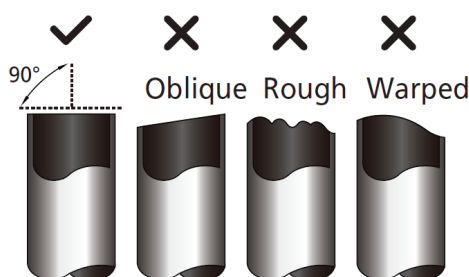
When connecting refrigerant piping, do not let substances or gases other than the specified refrigerant enter the unit. The presence of other gases or substances will lower the unit's capacity, and can cause abnormally high pressure in the refrigeration cycle. This can cause an explosion and injury.

Capacity (kW)	Max. length (m)	Max. drop height (m)
< 4.4	25	10
≥ 4.4 and < 7	30	20

Step 1: Cut pipes

When preparing refrigerant pipes, take extra care to cut and flare them properly. This will ensure efficient operation and minimize the need for future maintenance.

1. Measure the distance between the indoor and outdoor units.
2. Using a pipe cutter, cut the pipe a little longer than the measured distance.
3. Make sure that the pipe is cut at a perfect 90° angle.



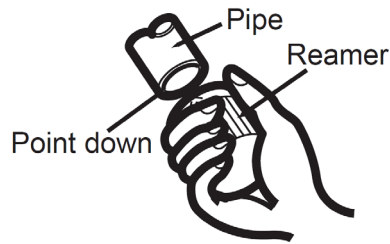
Be extra careful not to damage, dent, or deform the pipe while cutting. This will drastically reduce the efficiency of the unit.

Step 2: Remove burrs

Burrs can affect the air-tight seal of refrigerant piping connection. They must be completely removed.

1. Hold the pipe at a downward angle to prevent burrs from falling into the pipe.

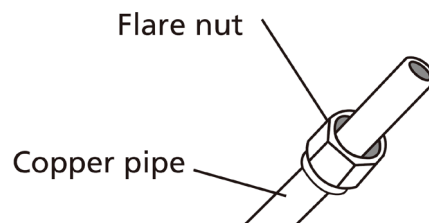
- Using a reamer or deburring tool, remove all burrs from the cut section of the pipe.



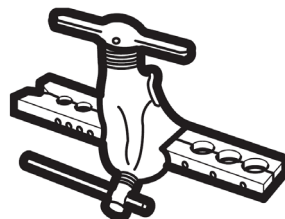
Step 3: Flare pipe ends

Proper flaring is essential to achieve an airtight seal.

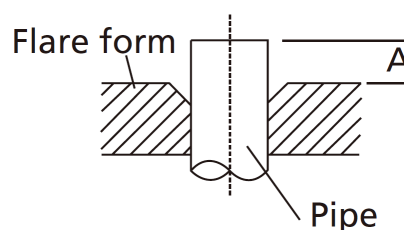
- After removing burrs from the cut pipe, seal the ends with PVC tape to prevent foreign materials from entering the pipe.
- Sheath the pipe with insulating material.
- Place flare nuts on both ends of the pipe. Make sure they are facing in the right direction, because you can't put them on or change their direction after flaring.



- Remove PVC tape from ends of pipe when ready to perform flaring work.
- Clamp flare forms on the end of the pipe. The end of the pipe must extend beyond the edge of the flare form in accordance with the dimensions shown in the table below.



Outer diameter of pipe (mm)	A (mm)	
	Min.	Max.
Ø6,35	0,7	1,3
Ø9,52	1,0	1,6
Ø12,7	1,0	1,8
Ø16	2,0	2,2
Ø19	2,0	2,4

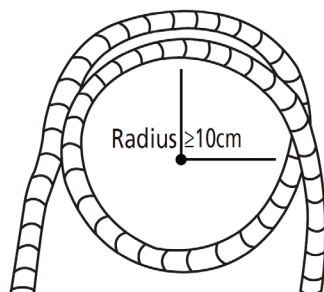


- Place the flaring tool onto the form.

7. Turn the handle of the flaring tool clockwise until the pipe is fully flared.
8. Remove the flaring tool and flare form, then inspect the end of the pipe for cracks and even flaring.

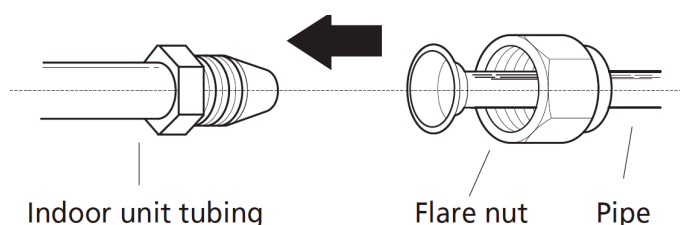
Step 4: Connect pipes

When connecting refrigerant pipes, be careful not to use excessive torque or to deform the piping in any way. You should first connect the low-pressure pipe, then the high-pressure pipe. When bending connective refrigerant piping, the minimum bending radius is 10 cm.

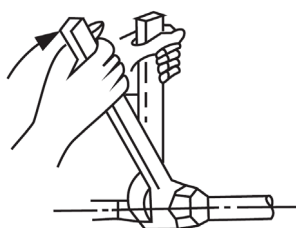


Instructions for Connecting Piping to Indoor Unit

1. Align the center of the two pipes that you will connect.



2. Tighten the flare nut as tightly as possible by hand.
3. Using a spanner, grip the nut on the unit tubing. Using a spanner, grip the nut on the unit tubing.
4. While firmly gripping the nut on the unit tubing, use a torque wrench to tighten the flare nut according to the torque values in the Torque Requirements table below. Loosen the flaring nut slightly, then tighten again.



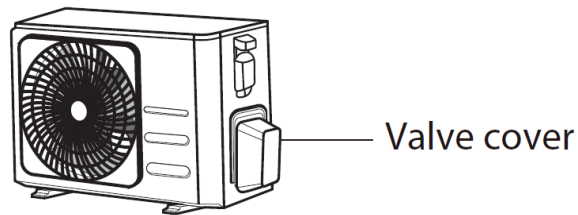
Torque requirements

Outer diameter of pipe (mm)	Tightening torque (Nm)	Flare dimension B (mm)	Flare shape
Ø6,35	18~20	8,4~8,7	
Ø9,52	32~39	13,2~13,5	
Ø12,7	49~59	16,2~16,5	
Ø16	57~71	19,2~19,7	
Ø19	67~101	23,2~23,7	

Excessive force can break the nut or damage the refrigerant piping. You must not exceed torque requirements shown in the table above.

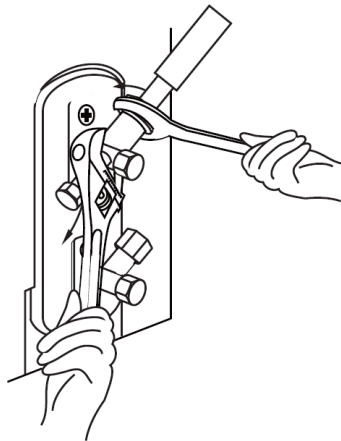
Instructions for Connecting Piping to Outdoor Unit

1. Unscrew the cover from the packed valve on the side of the outdoor unit.
2. Remove protective caps from ends of valves.
3. Align flared pipe ends with each valve, and tighten the flare nut as tightly as possible by hand.
4. Using a spanner, grip the body of the valve. Do not grip the nut that seals the service valve.



5. While firmly gripping the body of the valve, use a torque wrench to tighten the flare nut according to the correct torque values.
6. Loosen the flaring nut slightly, then tighten again.
7. Repeat Steps 3 to 6 for the remaining pipe.

Use spanner to grip main body of valve. Torque from tightening the flare nut can snap off other parts of the valve.



Air evacuation

Preparations and precautions

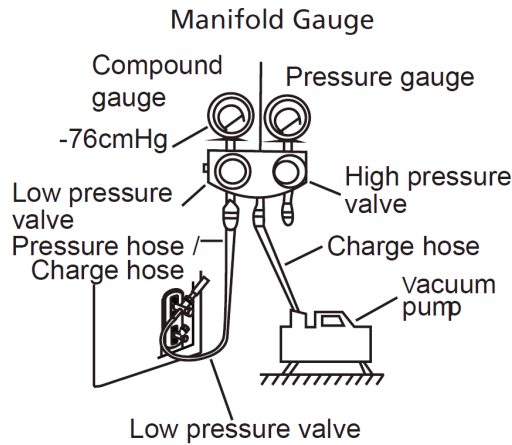
Air and foreign matter in the refrigerant circuit can cause abnormal rises in pressure, which can damage the air conditioner, reduce its efficiency, and cause injury. Use a vacuum pump and manifold gauge to evacuate the refrigerant circuit, removing any non-condensable gas and moisture from the system.

Evacuation should be performed upon initial installation and when the unit is relocated. Before performing evacuation:

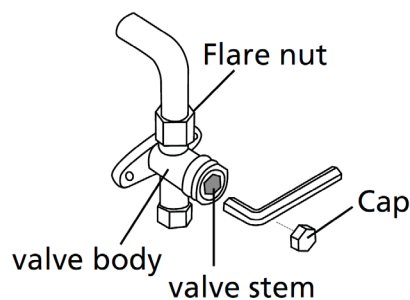
- Check to make sure the connective pipes between the indoor and outdoor units are connected properly.
- Check to make sure all wiring is connected properly.

Evacuation Instructions

1. Connect the charge hose of the manifold gauge to the service port on the outdoor unit's low pressure valve.
2. Connect another charge hose from the manifold gauge to the vacuum pump.
3. Open the Low Pressure side of the manifold gauge. Keep the High Pressure side closed.
4. Turn on the vacuum pump to evacuate the system. Run the vacuum for at least 15 minutes, or until the Compound Meter reads -76 cmHG (-10^5 Pa).



5. Close the Low Pressure side of the manifold gauge, and turn off the vacuum pump.
6. Wait for 5 minutes, then check that there has been no change in system pressure.
7. If there is a change in system pressure, refer to the Gas Leak Check section for information on how to check for leaks. If there is no change in system pressure, unscrew the cap from the packed valve (high pressure valve). Insert hexagonal wrench into the packed valve (high pressure valve) and open the valve by turning the wrench in a 1/4 counterclockwise turn. Listen for gas to exit the system, then close the valve after 5 seconds.
8. Watch the Pressure Gauge for one minute to make sure that there is no change in pressure. The Pressure Gauge should read slightly higher than atmospheric pressure.
9. Remove the charge hose from the service port.



10. Using a hexagonal wrench, fully open both the high pressure and low pressure valves.
 11. Tighten valve caps on all three valves (service port, high pressure, low pressure) by hand. You may tighten it further using a torque wrench if needed.
- Open valve stems gently. When opening the valve stems, turn the hexagonal wrench until it hits against the stopper. Do not try to force the valve to open further.

Note on adding refrigerant

Some systems require additional charging depending on pipe lengths. The refrigerant should be charged from the service port on the outdoor unit's low pressure valve. The additional refrigerant to be charged can be calculated using the following formula:

- $\varnothing 6.35$ (Pipe length – standard length) x 12 g/m
- $\varnothing 9.52$ (Pipe length – standard length) x 24 g/m

Electrical and gas leak checks

Before test run

Only perform test run after you have completed the following steps:

- Electrical safety checks – Confirm that the unit's electrical system is safe and operating properly
- Gas leak checks – Check all flare nut connections and confirm that the system is not leaking
- Confirm that gas and liquid (high and low pressure) valves are fully open

Electrical safety checks

After installation, confirm that all electrical wiring is installed in accordance with local and national regulations, and according to the Installation Manual.

Check grounding work

Measure grounding resistance by visual detection and with grounding resistance tester. Grounding resistance must be less than 0.1 Ω .

Check for Electrical Leakage

During the Test Run, use an electroprobe and multimeter to perform a comprehensive electrical leakage test. If electrical leakage is detected, turn off the unit immediately and call a licensed electrician to find and resolve the cause of the leakage.



WARNING!

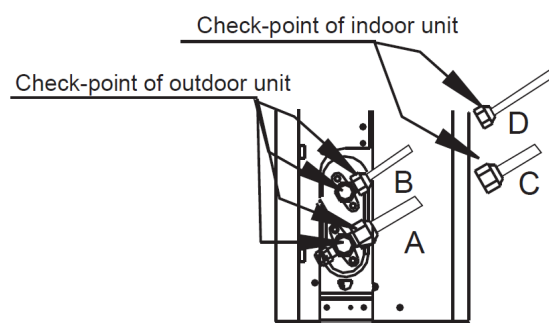
Risk of electric shock. All wiring must comply with local and national electrical codes, and must be installed by a licensed electrician.

Gas leak checks

There are two different methods to check for gas leaks:

- Soap and water method – Using a soft brush, apply soapy water or liquid detergent to all pipe connection points on the indoor unit and outdoor unit. The presence of bubbles indicates a leak.
- Leak detector method – If using a leak detector, refer to the device's operation manual for proper usage instructions.

After confirming that the all pipe connection points DO NOT leak, replace the valve cover on the outside unit.



A: Low pressure stop valve
B: High pressure stop valve
C & D: Indoor unit flare nuts

Test run

You should perform the Test Run for at least 30 minutes.

1. Connect power to the unit.
2. Press the ON/OFF button on the remote controller to turn it on.

3. Press the MODE button to scroll through the following functions, one at a time:
 - COOL – Select lowest possible temperature
 - HEAT – Select highest possible temperature
4. Let each function run for 5 minutes, and perform the following checks:

List of checks to perform	Pass/Fail	
No electrical leakage		
Unit is properly grounded		
All electrical terminals properly covered		
Indoor and outdoor units are solidly installed		
All pipe connection points do not leak	Outdoor (2):	Indoor (2):
Water drains properly from drain hose		
All piping is properly insulated		
Unit performs COOL function properly		
Unit performs HEAT function properly		
Indoor unit louvers rotate properly		
Indoor unit responds to remote controller		

During operation, the pressure of the refrigerant circuit will increase. This may reveal leaks that were not present during your initial leak check. Take time during the Test Run to double-check that all refrigerant pipe connection points do not have leaks.

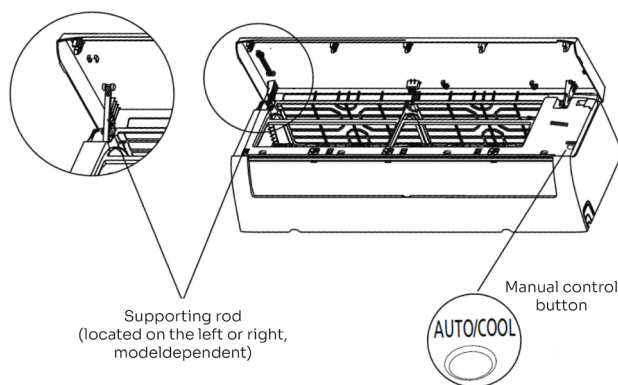
5. After the Test Run is successfully completed, and you confirm that all checks points in List of Checks to Perform have PASSED, do the following:
 - Using remote control, return the unit to normal operating temperature.
 - Using insulation tape, wrap the indoor refrigerant pipe connections that you left uncovered during the indoor unit installation process.

You can't use the remote controller to turn on the COOL function when the ambient temperature is below 16°C. In this instance, you can use the MANUAL CONTROL button to test the COOL function.

1. Lift the front panel of the indoor unit.

NOTE: For some units, there is a supporting rod located on the left or right side. Please use it to prop up the panel.

2. The MANUAL CONTROL button is located on the right-hand side of the unit. Press it 2 times to select the COOL function.
3. Perform Test Run as normal.



Operating manual for the wireless module and NetHome Plus APP

Precautions

Declaration of conformity

Hereby, we declare that this WiFi module is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Applicable system: iOS, Android

- Please keep your APP up to date with the latest version.
- Due to a special situation that may have occurred, we explicitly claim below: Not all of the Android and iOS systems are compatible with APP. We will not be responsible for any issue as a result of the incompatibility.

Wireless safety strategy

Appliances only support WPA-PSK/WPA2-PSK/WPA3-SAE encryption. WPA-PSK/WPA2-PSK/ WPA3-SAE encryption is recommended. Kensol air conditioners work with external applications. The developers of the applications are responsible for their operation. In case of problems, please contact the developer directly.

Cautions

- Due to different network situations, control processes may return time-out sometimes. If this situation occurs, the display between board and App may not be the same, please do not feel confused.
- Due to different network situations, sometimes, request time-out could happen, thus, it is necessary to do network configuration again.
- The App system is subject to update without prior notice for product function improvement. The actual network configuration process may be slightly different from the manual, the actual process shall prevail.
- Smartphone camera needs to be 5 million pixels or above to make sure to scan QR code well.
- Only operate the device in accordance with the instructions supplied.

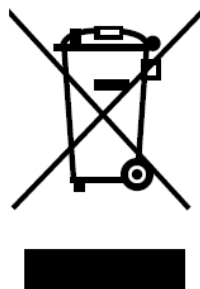
Disposal

When disposing of this appliance, the law requires special collection and treatment. Do not dispose of this product as household waste or unsorted municipal waste.

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

- Dispose of the appliance at designated municipal electronic waste collection facility.
- When buying a new appliance, the retailer will take back the old appliance free of charge.
- The manufacturer will take back the old appliance free of charge.
- Sell the appliance to certified scrap metal dealers.

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

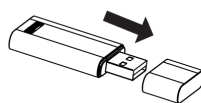


Specification

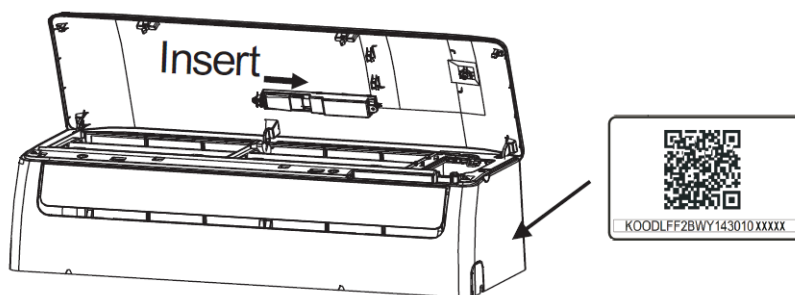
Model	EU-OSK105, EU-OSK106, EU-OSK109
Antenna type	PCB Antenna
Frequency	2400 - 2483.5 MHz
Operation temperature	0°C ~ 45°C / 32°F ~ 113°F
Operation humidity	10% ~ 85%
Power input	DC 5V/500 mA
Maximum TX power	< 20 dBm

Module installation

1. Remove the protective cap of the wireless module.



2. Open the front panel and insert the wireless module into the reserved interface.
3. Attach the QR code packed with a wireless module to the side panel of the machine or other convenient location, ensuring it is convenient to be scanned by the mobile phone.



Note: Illustrations in this manual are for explanatory purposes. The actual shape of your indoor unit may be slightly different. The actual shape shall prevail.



WARNING!

This interface is only compatible with wireless modules provided by the manufacturer. Replacement, maintenance operations must be carried out by professional staff.

Download and install the application



CAUTION!

The following QR Code is only available for downloading APP. It is totally different from the QR code packed with wireless modules.



Android

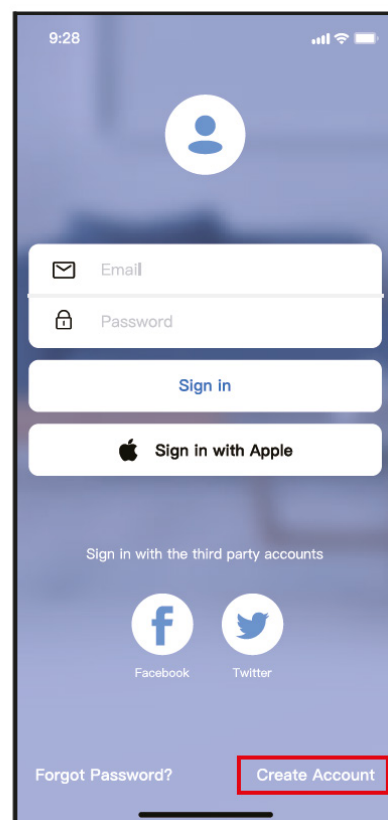
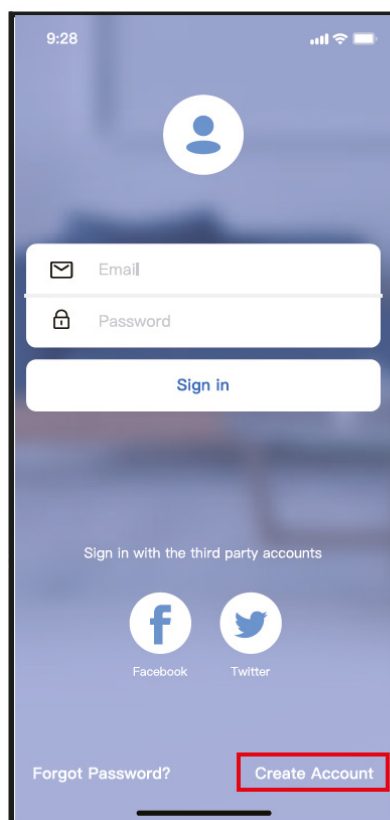


iOS

- Android users: scan Android QR code or go to Google Play, search „NetHome Plus” app and download it.
- iOS users: scan iOS QR code or go to the APP Store, search „NetHome Plus” app and download it.

User registration

- Please ensure your mobile device is connected to Wireless router. Also, the Wireless router has already connected to the Internet before doing user registration and network configuration.
 - If you cannot remember the password for an existing account, use the „Forgot Password” option. You can log in using third-party accounts.
1. Click „Create account”.



Android / iOS

2. Enter your email address and password and then click “Register”.

9:41

Create Account

Enter your Email address

Password

Confirm Password

Password need 6–20 characters,must contain letters and numbers.

Register

☐ I have read and agree to the terms and privacy

Network configuration

Cautions

- It is necessary to forget any other network nearby and make sure the Android or iOS device only connects to the Wireless network you want to configure.
 - Make sure the Android or iOS device Wireless function works well and can be connected back to your original wireless network automatically.
 - User must finish all the steps in 8 minutes after powering on the air conditioner, otherwise you need to power on it again.
1. Make sure your mobile device has already been connected to the Wireless network which you want to use. Also, you need to forget other irrelevant Wireless networks in case it influences your configuration process.
 2. Disconnect the power supply of AC.
 3. Connect the power supply of AC, and continuously press the LED button seven times in 10 seconds.
 4. When the AC displays „AP”, it means that the device has already entered into “AP” mode.

Note:

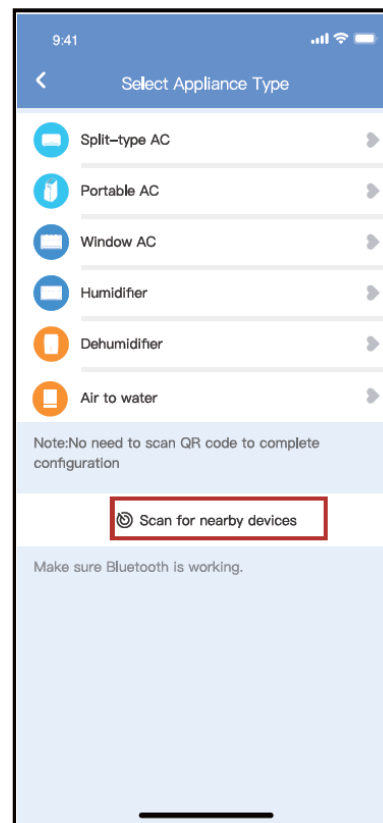
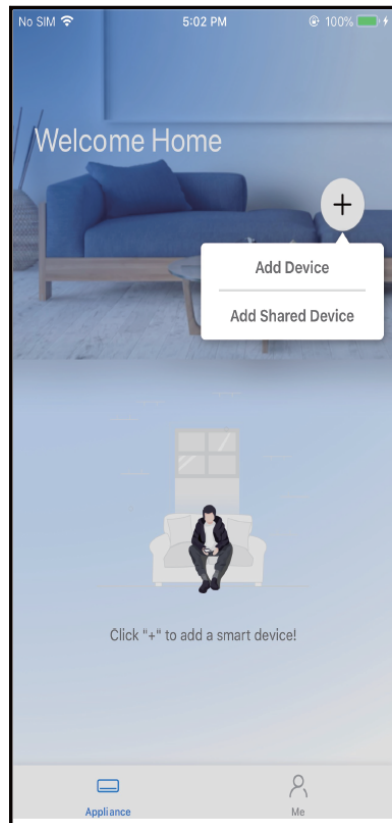
There are two ways to finish the network configuration:

- Network configuration by Bluetooth scan.
- Network configuration by selecting appliance type.

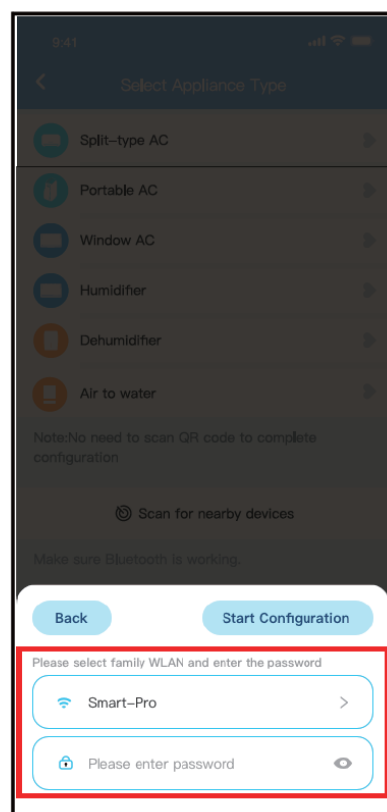
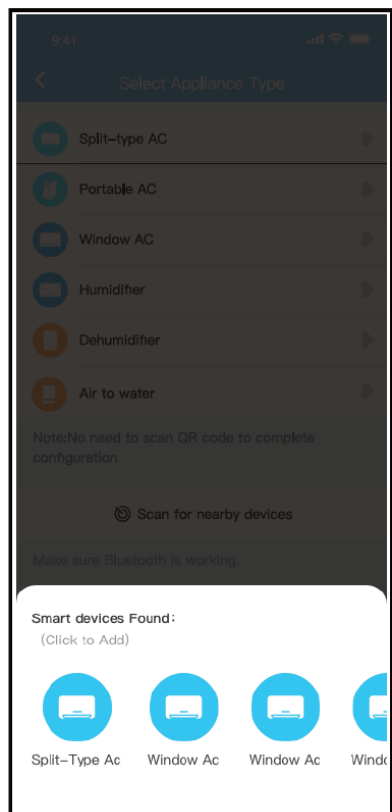
Network configuration by Bluetooth

Note: Make sure the Bluetooth of your mobile device is working.

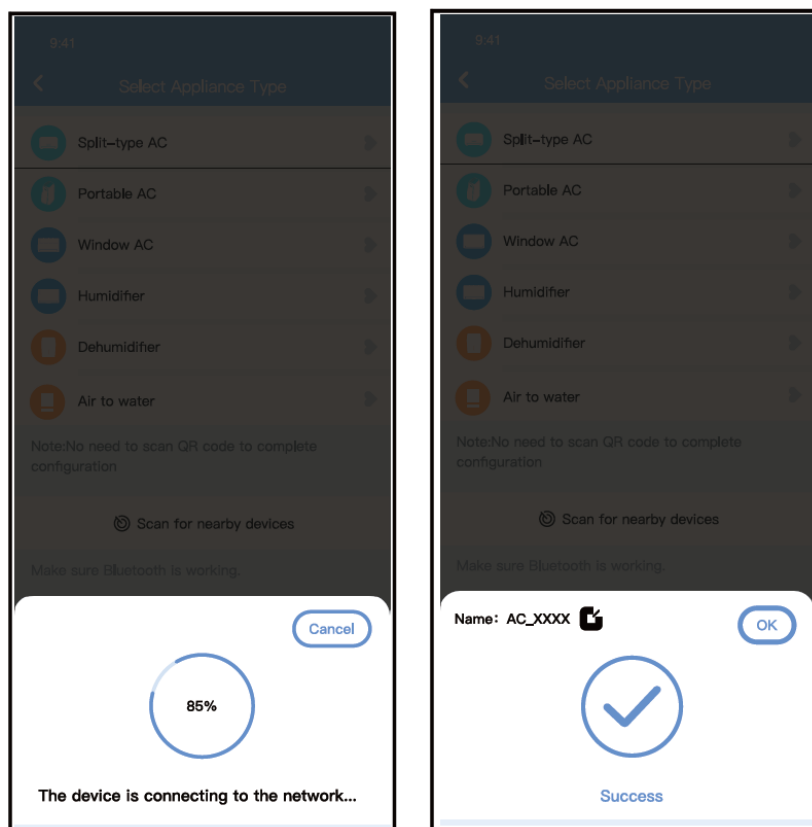
1. Press “+ Add Device”.
2. Press “Scan for nearby devices”.



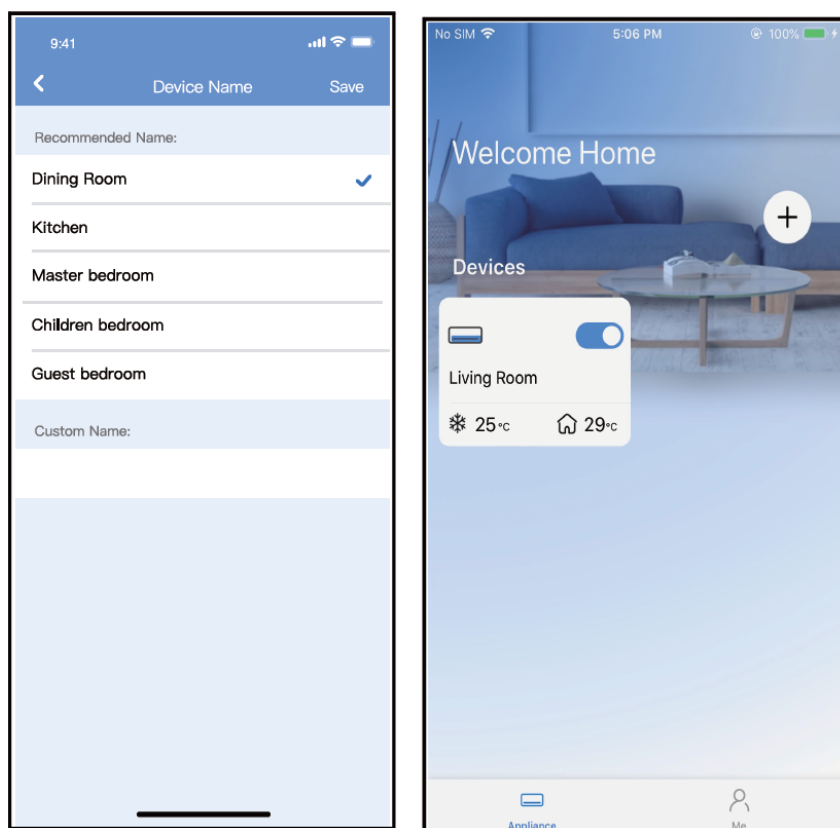
3. Wait until the device is found and then click to add it.
4. Select home wireless, enter the password.



5. Wait for the connection to the network.
6. Configuration Success, you can modify the default name.



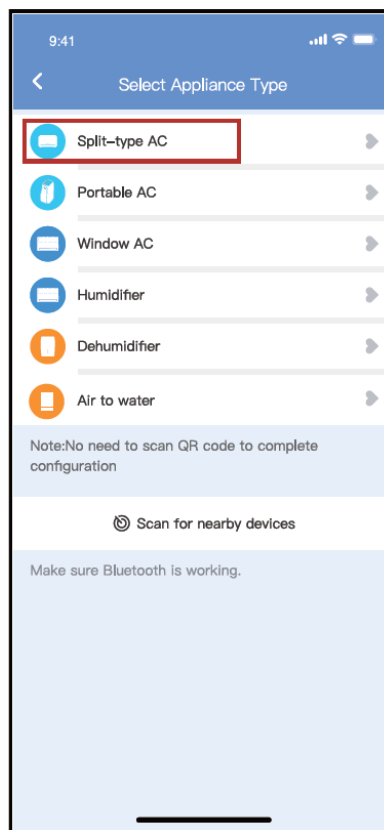
7. You can choose an existing name or customize a new name.
8. Bluetooth network configuration is successful, now you can see the device in the list.



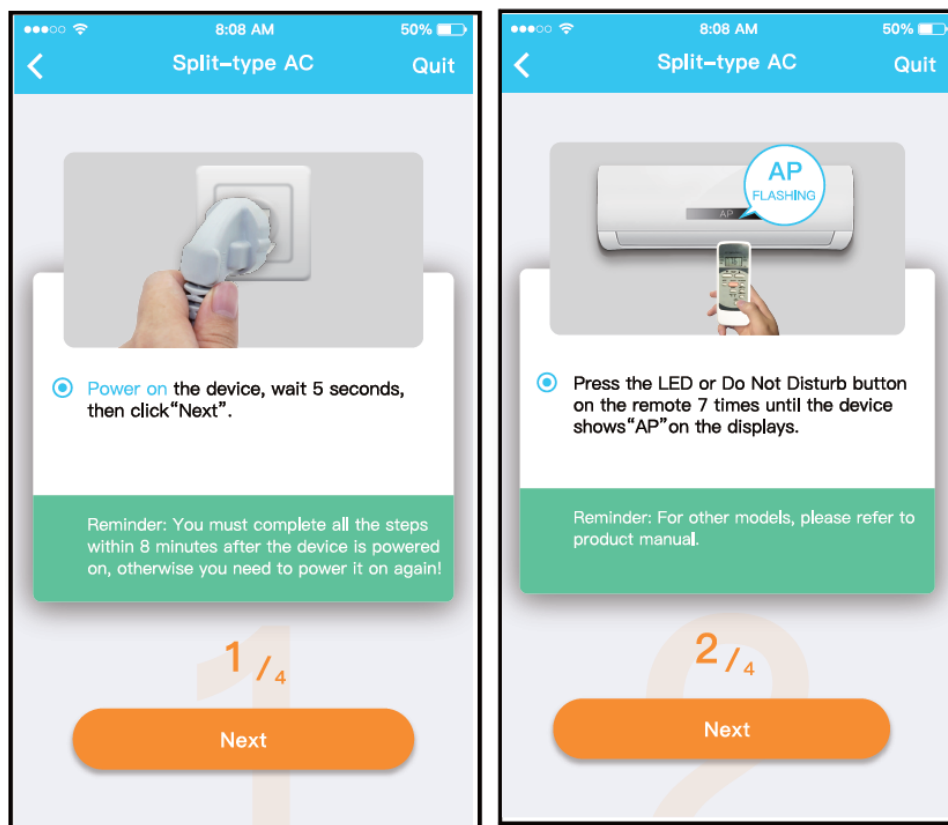
Network configuration by select appliance type

Note: Choose this configuration method if the Bluetooth network configuration fails.

1. Select the appliance type.



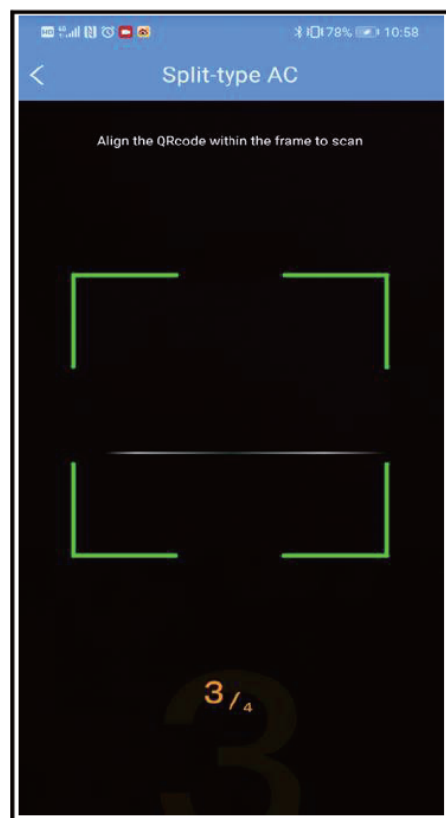
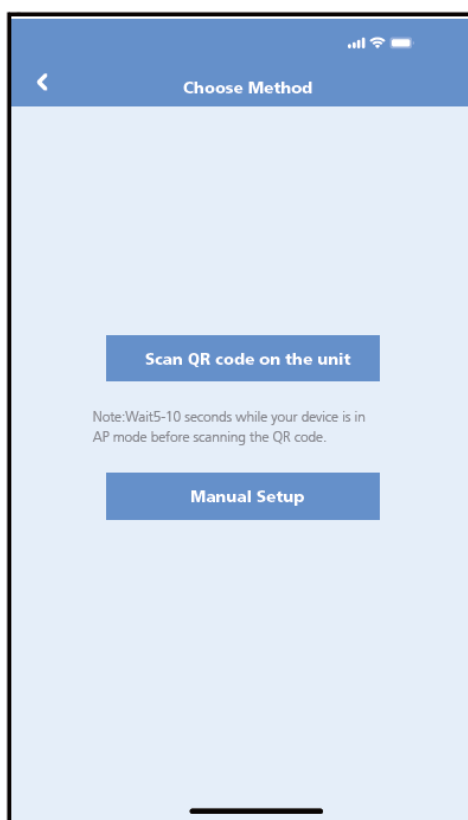
2. Follow the steps to enter "AP" mode.



3. Choose the network configuration method.

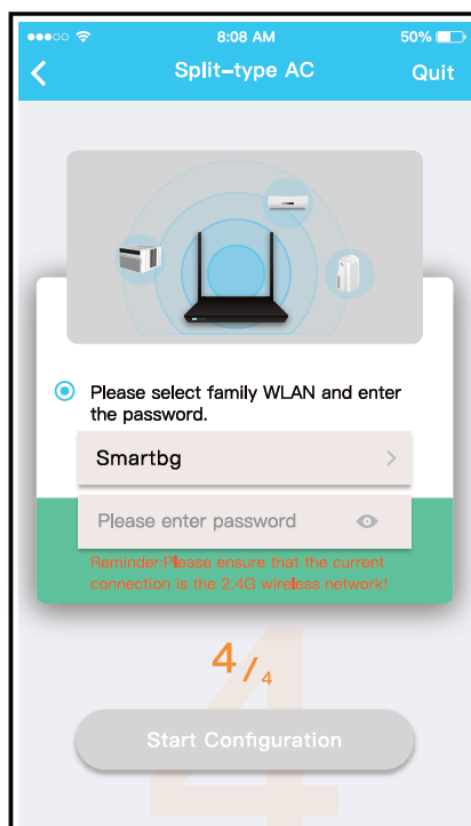
4. Choose the “Scan the QR code” method.

NOTE: Steps 3 and 4 are applicable to Android only. The iOS system does not need these two steps.

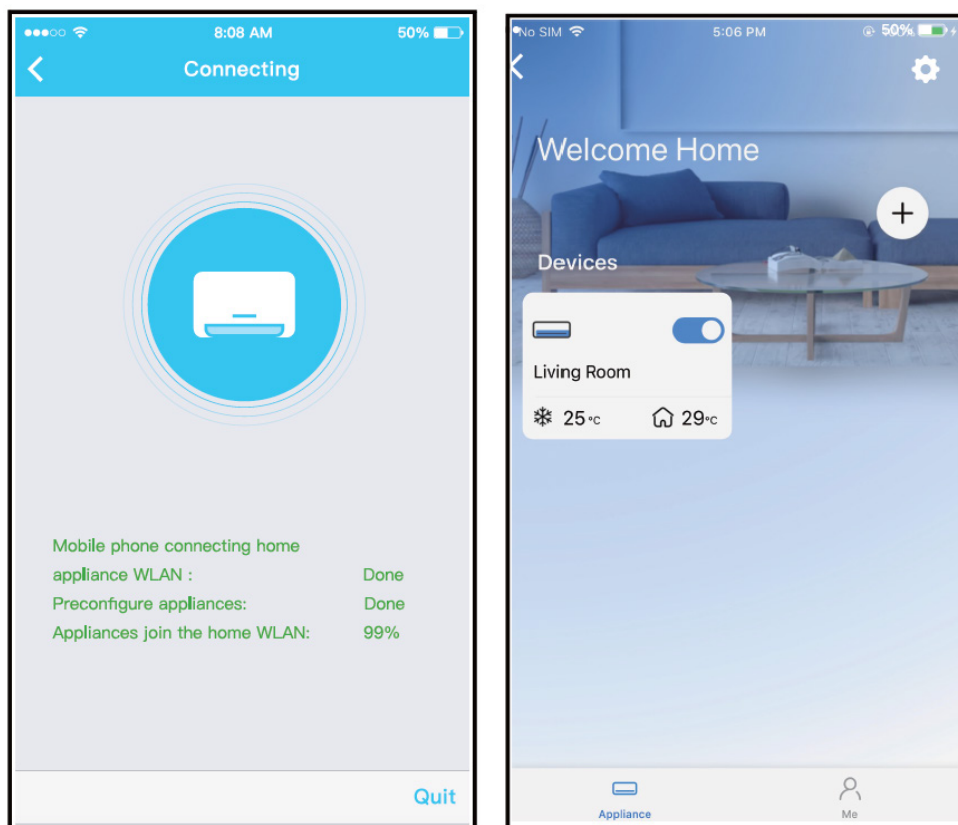


5. After choosing the “Manual Setup” method, connect to the wireless network (iOS).

6. Enter the password.



7. The network configuration was successful.
8. After successful configuration, you can find the device in the list.



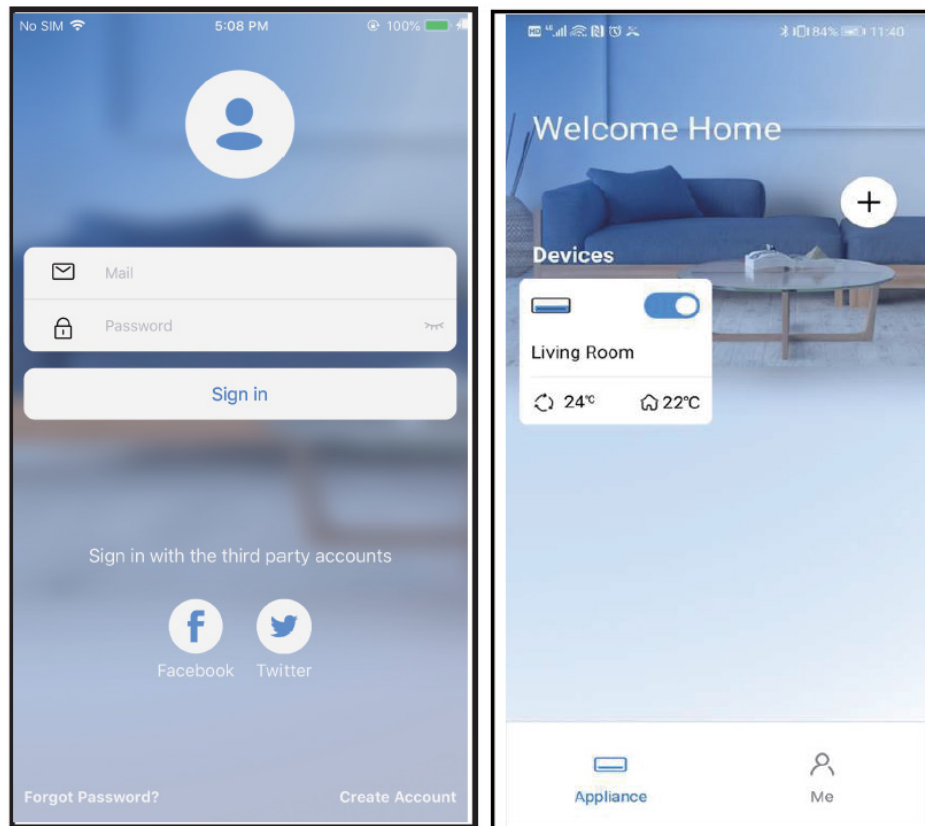
NOTE:

- When finishing network configuration, APP will display success cue words on the screen.
- Due to different internet environments, it is possible that the device status still displays “offline”. If this situation occurs, it is necessary to pull and refresh the device list on the APP and make sure the device status becomes “online”. Alternatively, the user can turn off the AC power and turn it on again, the device status will become “online” after a few minutes.

Using the application

Please ensure both your mobile device and air conditioner are connected to the Internet before using app to control the air conditioner via internet, please follow the next steps:

1. Click "Sign in".
2. Choose the air conditioner.



3. Thus, the user can control air conditioners on/off status, operation mode, temperature, fan speed and so on.

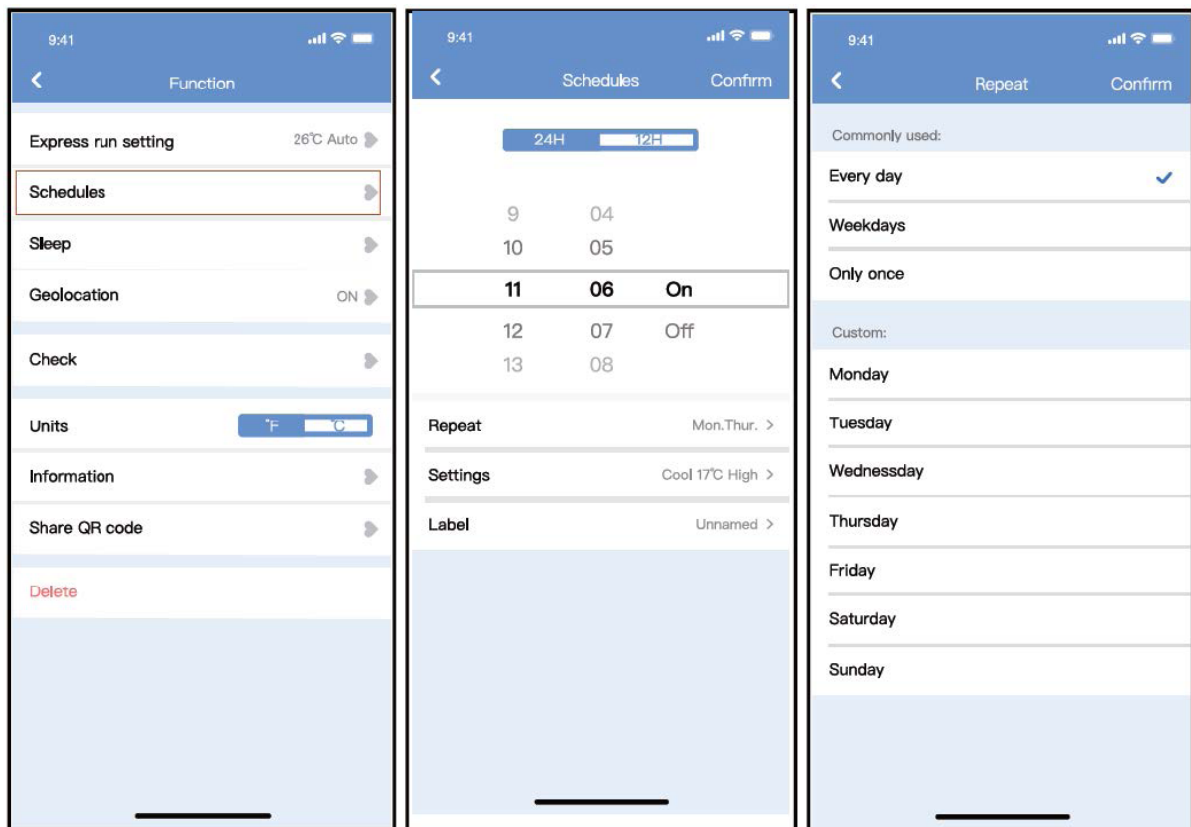
NOTE: Not all the functions of the APP are available on air conditioners. For example: ECO, Turbo, Swing function, please check the user manual to find more information.



Special functions

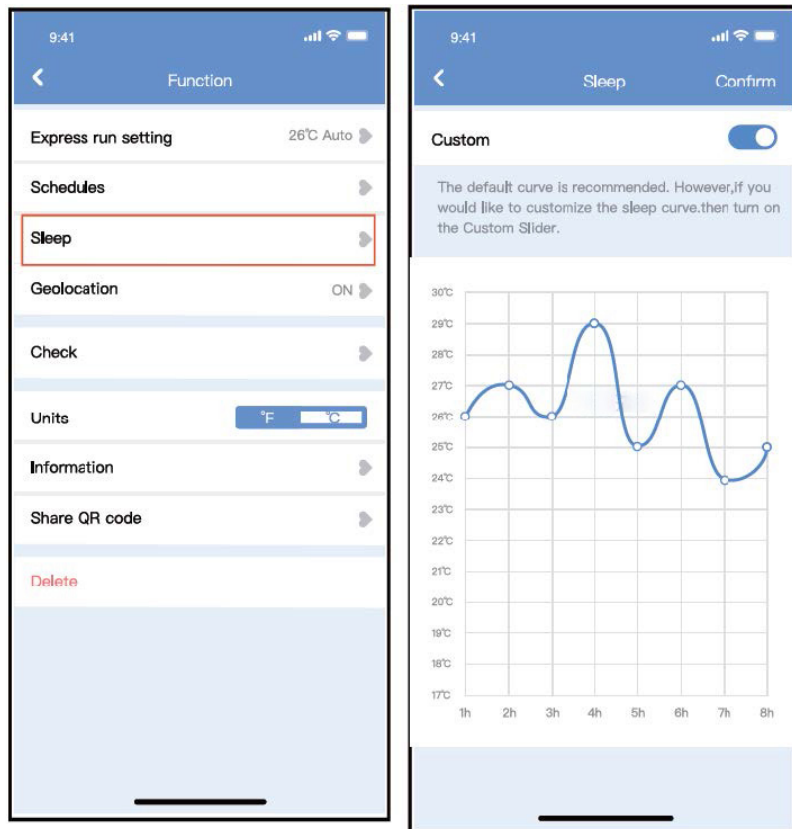
Schedule

Weekly, the user can make an appointment to turn on or off AC at a specific time. The user also can choose circulation to keep the AC under schedule control every week.



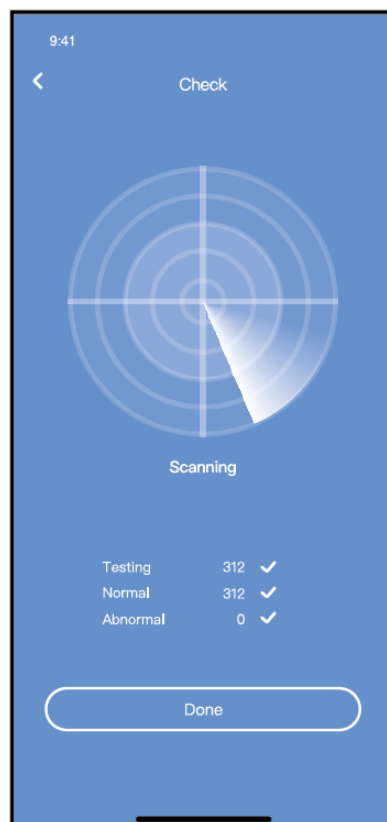
Sleep

The user can customize their own comfortable sleep by setting target temperature.



Check

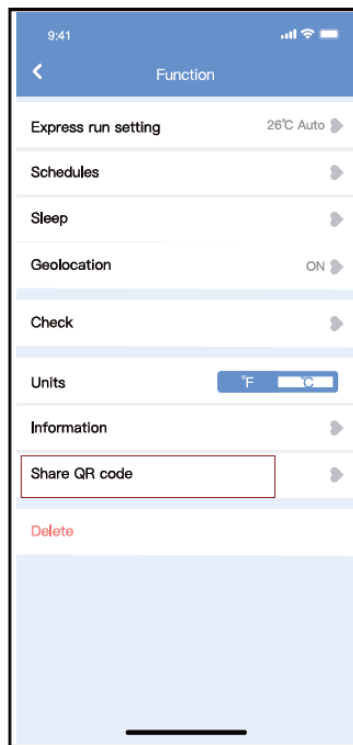
The user can simply check the AC running status with this function. When finishing this procedure, it can display the normal items, abnormal items, and detailed information.



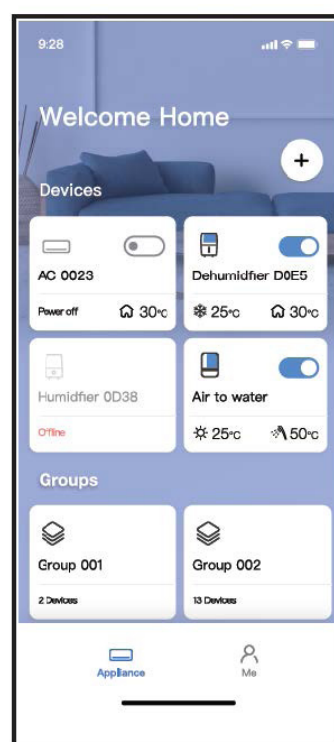
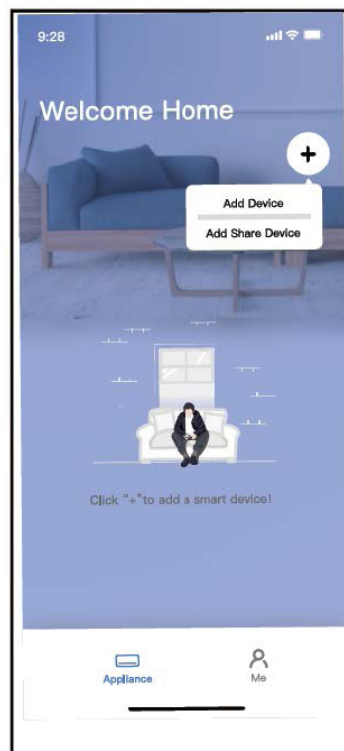
Share device

The air conditioner can be controlled by multiple users at the same time by Share Device function.

1. Click "Share QR code".
2. QR code display.



3. The other users must log in to the Nethome Plus app first, then click Add Share Device on their own mobile, then ask them to scan the QR code.
4. Now the other users can add the shared device.





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