Midea

Split Tye Air Conditioner

USER MANUAL

MODEL NUMBER:
XXXXXXXXXXXXX

Warning notices: Before using this product, please read this manual carefully and keep it for future reference.
The design and specifications are subject to change without prior notice for product improvement.
Consult with your dealer or manufacturer for details.
The diagram above is just for reference. Please take the appearance of the actual product as the standard.

THANK YOU LETTER

Thank you for choosing Midea! Before using your new Midea product, please read this manual thoroughly to ensure that you know how to operate the features and functions that your new appliance offers in a safe way.

CONTENTS

SAFETY PRECAUTIONS

It's really important that you read the safety precautions before operation and installation. Incorrect installation can cause serious damage or injury.

Explanation of Symbols

⚡	**Warning of electrical voltage** This symbol indicates voltage that poses risk of death or injury.
⚠	**Warning** The "Warning" symbol indicates a hazard with a medium degree of risk which may cause death or serious injury.
⚠	**Caution** The "Caution"signal indicates a hazard with a low degree of risk which may cause moderate injury.
💡	**Attention** Important information is indicated by the "Attention" symbol where there is no danger to people but where damage may occur or it is a point of particular relevance.
🔧	**Observe** This symbol indicates that a service technician should only operate and maintain this appliance in accordance with the operating instructions.

Read these operating instructions carefully and attentively before using/commissioning the unit and keep them in the immediate vicinity of the installation site or unit for later use!

⚠ 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 without supervision(European Union countries).

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

⚠ WARNING FOR PRODUCT USE

- If an abnormal situation arises (e.g. a burning smell), immediately turn off the unit and disconnect the power. Call your dealer for instructions to avoid electric shock, fire or injury.
- Do not insert fingers, rods or other objects into the air inlet or outlet. This may cause injury, as 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 moisture can cause electrical components to short circuit.
- Do not expose your body directly to cool air for a prolonged period of time.
- Do not allow children to play with the air conditioner. Children must be supervised around the unit at all times.
- If the air conditioner is used together with burners or other heating devices, thoroughly ventilate the room to avoid oxygen deficiency.
- 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 manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The product must be properly grounded at the time of installation, or electrical shock may occur.
- For all electrical work, follow local and national wiring standards, regulations, and as well as consulting the installation manual. Connect cables properly, and clamp them securely to prevent external forces from damaging the terminal. Improper electrical connections can overheat and cause fire, and or cause electrical 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.
- Disconnection must be incorporated in the fixed wiring in accordance with the wiring regulations.
- Do not pull power cord to unplug 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 modify the length of the power supply cord or use an extension cord to power the unit.
- Do not share the electrical outlet with other appliances. Improper or insufficient power supply can cause fire or electrical shock.
- 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.
- If connecting power to fixed wiring, an all-pole disconnection device which has at least 3mm clearances in all poles, and have a leakage current that may exceed 10mA, the residual current device(RCD) having a rated residual operating current not exceeding 30mA, and disconnection must be incorporated in the fixed wiring ' in accordance with the wiring rules.

TAKE NOTE OF FUSE SPECIFICATIONS

The air conditioner's circuit board (PCB) is designed with a fuse to provide overcurrent protection. The specifications of the fuse are printed on the circuit board , for example : T3.15AL/250VAC, T5AL/250VAC, T3.15A/250VAC, T5A/250VAC, T20A/250VAC, T30A/250VAC,etc.

UV-C lamp(Applicable to the unit contains an UV-C lamp only)

This appliance contains a UV-C lamp. Read the maintenance instructions before opening the appliance.
- Do not operate UV-C lamps outside of the appliance.
- Appliances that are obviously damaged must not be operated.
- Unintended use of the appliance or damage to the housing may result in the escape of dangerous UV-C radiation. UV-C radiation may, even in small doses, cause harm to the eyes and skin.
- Before opening doors and access panels bearing the ULTRAVIOLET RADIATION hazard symbol for the conducting USER MAINTENANCE, it is recommended to disconnect the power.
- The UV-C lamp can not be cleaned, repaired and replaced.
- UV-C BARRIERS bearing the ULTRAVIOLET RADIATION hazard symbol should not be removed.

⚠ **WARNING**   This appliance contains an UV emitter. Do not stare at the light source.

⚠ PRODUCT INSTALLATION WARNING

- 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. Improper installation can cause water leakage, electrical shock, or fire.
- 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, and specified parts for installation. Using non-standard parts can cause water leakage, electrical shock, fire, and or cause the unit to fail.
- Install the unit in a sturdy 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 or 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.
- Only a qualified technician may move or relocate the air conditioner.
- Pleae read the sections covering the indoor and outdoor unit installation for additional information.

⚠ 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 unimpeded from the unit.
- Do not operate the air conditioner with wet hands. This may cause electric shock.
- Do not use the device for any purpose other 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.

CLEANING AND MAINTENANCE WARNINGS

- Turn off the device and disconnect the power before cleaning. Failure to do so can cause electrical shock.
- A moist cloth may be used to clean the device. It should not be wased with water.
- Do not clean the air conditioner with combustible cleaning agents. Combustible cleaning agents can cause fire or deformation.

Note about Fluorinated Gasses(Not applicable to units using R290 Refrigerant)

- This air-conditioning unit contains fluorinated greenhouse gasses. For specific information on the type of gas and the amount, please refer to the relevant label on the unit itself or the "Owner's Manual - Product Fiche " in the packaging of the outdoor unit. (European Union products only).
- Installation, service, maintenance and repair of this unit must be performed by a certified technician.
- Product uninstallation and recycling must be performed by a certified technician.
- For equipment that contains fluorinated greenhouse gases in quantities of 5 tonnes of CO_2 equivalent or more, but of less than 50 tonnes of CO_2 equivalent, If the system has a leak-detection system installed, it must be checked for leaks at least every 24 months.
- When the unit is checked for leaks, proper record-keeping of all checks is strongly recommended.

⚠ WARNING FOR USING R32/R290 REFRIGERANT

- When flammable refrigerants are employed, appliances shall be stored in a well ventilated area where the room size corresponds to the room area as specified for operation.
- For R32 refrigerant models:
  Appliances shall be installed, operated and stored in a room with a floor area larger than $4m^2$.
- For R290 refrigerant models, appliance shall be installed, operated and stored in a room with a floor area larger than:
  <=2.6kW units: $17.33m^2$
  >2.6kW and <=3.5kW units: $25.4m^2$
  >3.5kW and <=5.2kW units: $34.67m^2$
 >5.3kW and <=7.1kW units: $47.33m^2$
- Reusable mechanical connectors and flared joints are not allowed indoors.

SPECIFICATIONS

Product Model	xxxxxxxxx	xxxxxxxxx	xxxxxxxxxx
Power source	xxxxxxx		
Cooling capacity	xxxxxx	xxxxx	xxxxxx
Heating capacity	xxxxx	xxxx	xxxxxx
Rated current(A)	xxxx	xxxx	xxxx
Rated power input(W)	xxxx	xxxx	xxxx
Refrigerant(kg)	xxxx	xxxx	xxxx
Min. Room Area (m^2)	xxxx	xxxx	xxxx

PRODUCT OVERVIEW

(1)   (2)
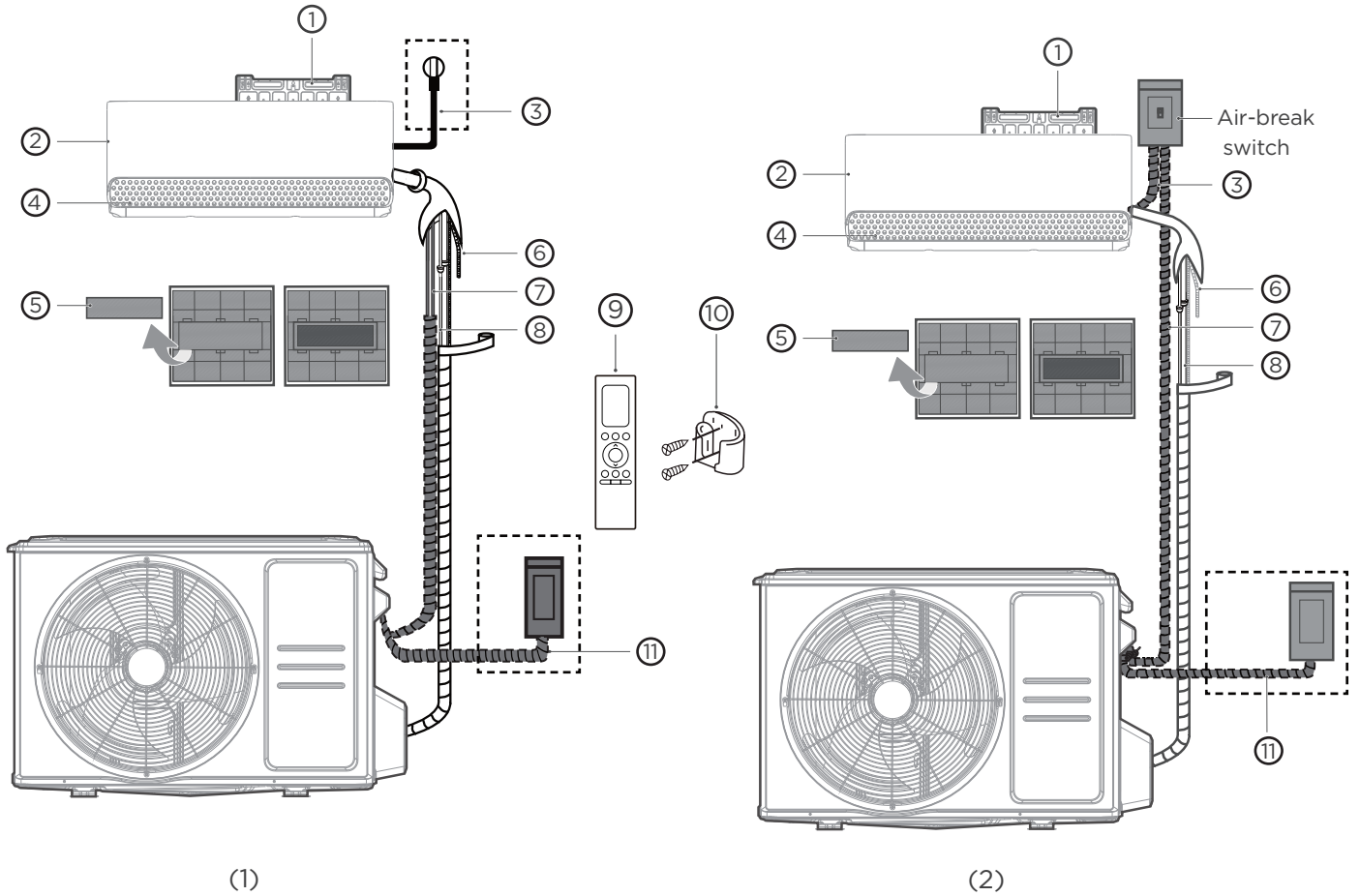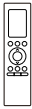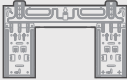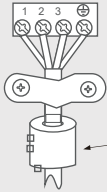
①	Wall Mounting Plate	⑤	Functional Filter (On Back of Main Filter - Some Units)	⑨	Remote Controller
②	Front Panel	⑥	Drainage Pipe	⑩	Remote controller Holder (not supplied)
③	Power Cable(not all units)	⑦	Signal Cable	⑪	Outdoor Unit Power Cable (not all units)
④	Louver	⑧	Refrigerant Piping		

PRODUCTION INSTALLATION

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 are not included with the air conditioner must be purchased separately.

Name of Accessories	Q'ty(pc)	Shape	Name of Accessories	Q'ty(pc)	Shape
Manual	1-3		Remote controller	1	
Drain joint (for cooling & heating models)	1		Battery	2	
Seal (for cooling & heating models)	1		Remote controller holder(sold separately)	1	
Mounting plate	1		Fixing screw for remote controller holder(sold separately)	2	
Anchor	5~8 (depending on models)		**Small Filter** (needs to be installed behind the main air filter by an authorized technician during installation)	1~2 (depending on models)	
Mounting plate fixing screw	5~8 (depending on models)				

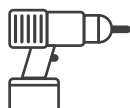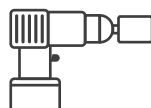| Name	Shape		Quantity(PC)
Connecting pipe assembly	Liquid side	Φ6.35(1/4in)	Connective pipes must be purchased separately. Please consult the dealer for the correct size for the unit purchased
		Φ9.52(3/8in)	
	Gas side	Φ9.52(3/8in)	
		Φ12.7(1/2in)	
		Φ16(5/8in)	
		Φ19(3/4in)	
Magnetic ring and belt (Not all units. Where applicable, please refer to the wiring diagram)		Pass the belt(packed with the magnetic ring) through the hole of the magnetic ring to fix it to the cable	Varies by model

Tools required

Gloves	Screwdriver & wrench	Hammer drill	Core drill	Goggles & masks	Vinyl tape

Installation summary - indoor unit

1

15cm (5-7/8")

12cm (4-3/4")   12cm (4-3/4")

2.3m (7/8")

Select installation location

2
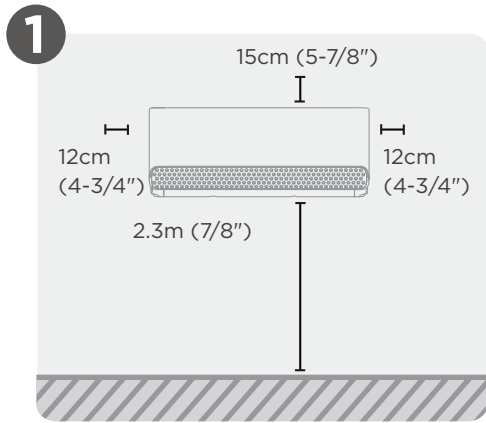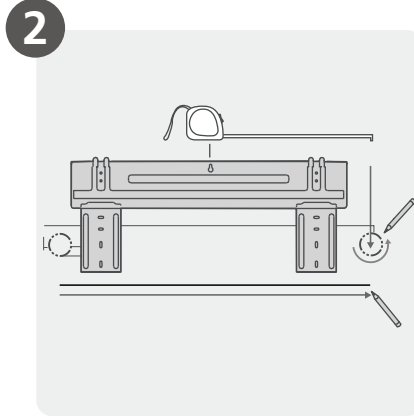
Attach mounting plate

3
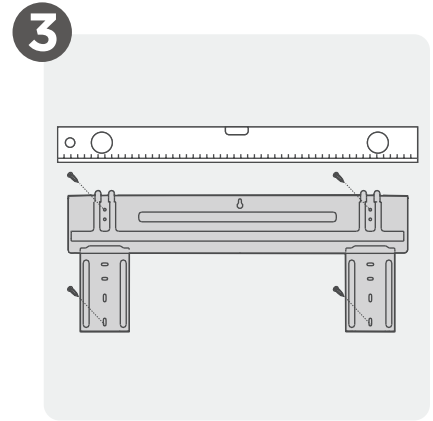
Determine wall hole position

4

Drill wall hole

5

Connect piping

6
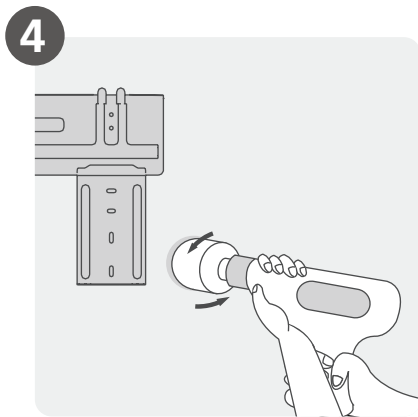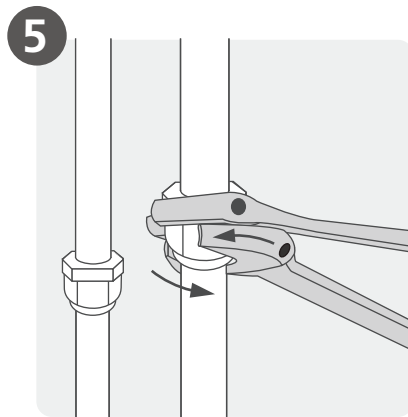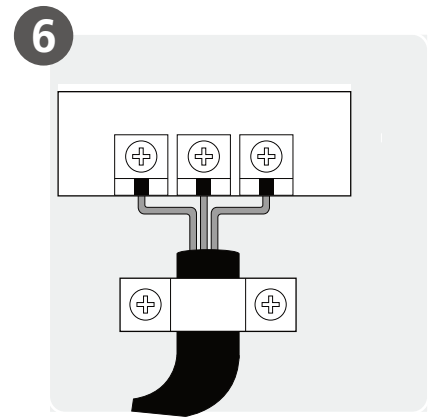
Connect wiring
(Not applicable for some
Locations in north america)

7

Prepare drain hose

8

Wrap piping and cable
（Not applicable for some locations in north america ）

9

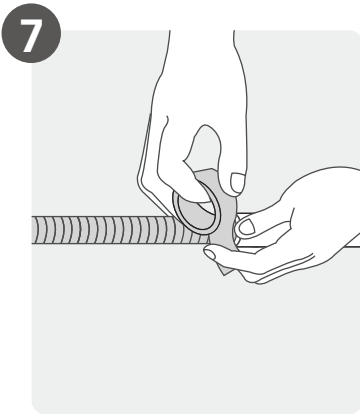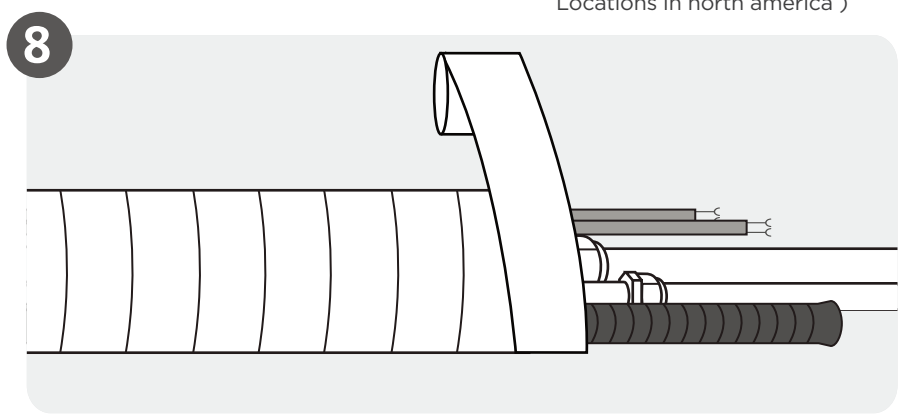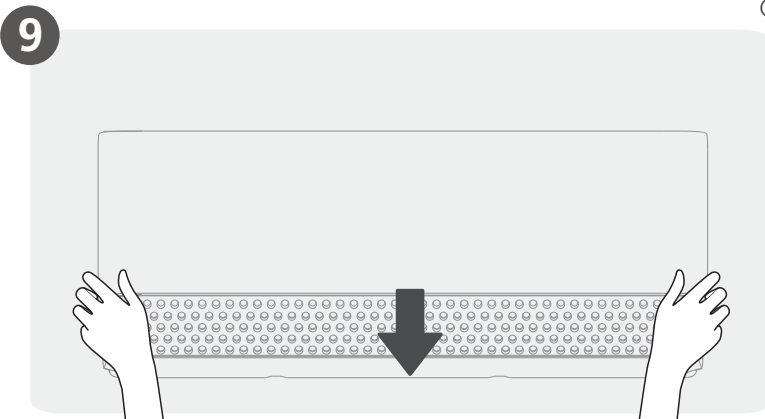Mount indoor unit

Installation Of Indoor Unit

1   **Select installation location**

💡 **NOTE** **: 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.

The following are standards that will help you choose an appropriate location for the unit.

Proper installation locations meet the following standards:

☑ Good air circulation
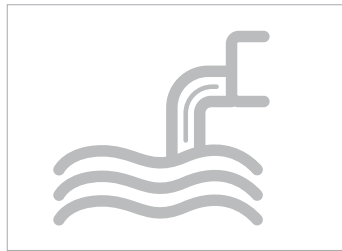
☑ Convenient drainage

☑ Noise from the unit will not disturb other people.
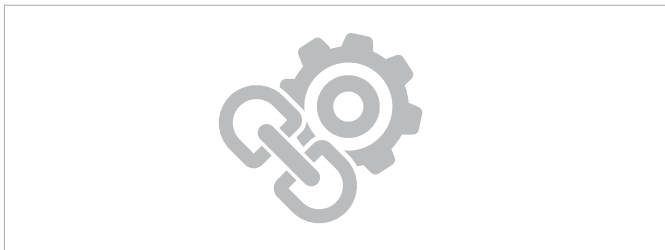
☑ Firm and solid—the location will not vibrate

☑ Strong enough to support the weight of the unit
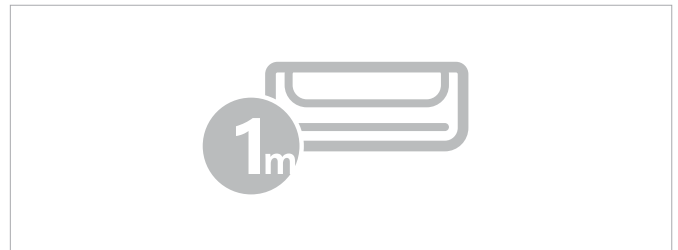
☑ A location at least one meter from all other electrical devices (e.g., TV, radio, computer)

DO NOT **install unit in the following locations:**

🚫 Near any source of heat, steam, or combustible gas

🚫 Near flammable items such as curtains or clothing

🚫 Near any obstacle that might block air circulation

🚫 Near the doorway

🚫 In a location subject to direct sunlight

💡 **NOTE: For product installation**

If there is no fixed refrigerant piping:
When 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.

Determine wall hole location

💡 **NOTE　: THE WALL HOLE SIZE**

The size of the wall hole is determined by the connective pipes. When the size of the gas side connective pipe is Φ16mm(5/8″) or more, the wall hole should be 90mm(3-9/16″). For the size of connective pipe is less than Φ16mm(5/8″), the wall hole should be 65mm(2-1/2″).

Step 1:

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

Screw

Step 2:

Different models have different mounting plates. For the different customization requirements, the shape of the mounting plate may be slightly different. But the installation dimensions are the same for the same size of indoor unit.
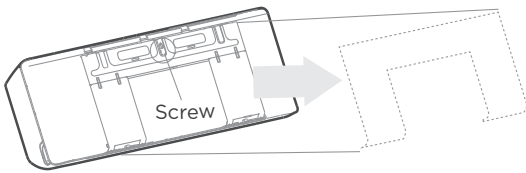See Type A and Type B for example.
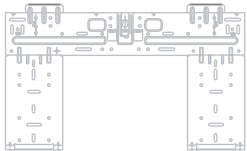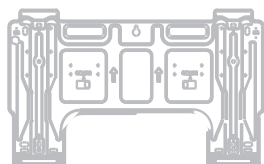
Type A　　　　　Type B

Step 3:

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

✓　　✗　　✗
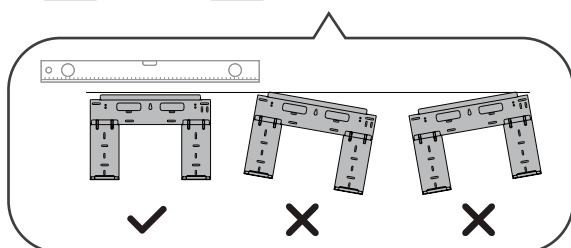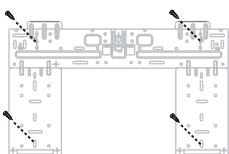
Correct orientation of Mounting Plate

NOTE : FOR CONCRETE OR BRICK WALLS

If the wall is made of brick, concrete, or similar material, drill 5mm-diameter (0.2in-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 4:

Confirm the mounting plate you own. Determine the location of the wall hole based on the position of the mounting plate.The dotted rectangular box above shows the size of your product.

426mm(16.8in)
153mm(6.0in) 169mm(6.6in) 169mm(6.6in) 140mm(5.5in)
39mm(1.5in)
43mm(1.7in)
Wall hole Φ65mm(2.56in)

Indoor unit demensions(WxH):
812mm(40.0in)x299mm(11.8in)

91mm(3.6in)　561mm(22.1in)　253mm(9.97in)
132mm(5.2in)
39mm(1.5in)
43mm(1.7in)
Wall hole Φ65mm(2.56in)
W

Indoor unit demensions(WxH):
968mm(38.1in)x322mm(12.7in)
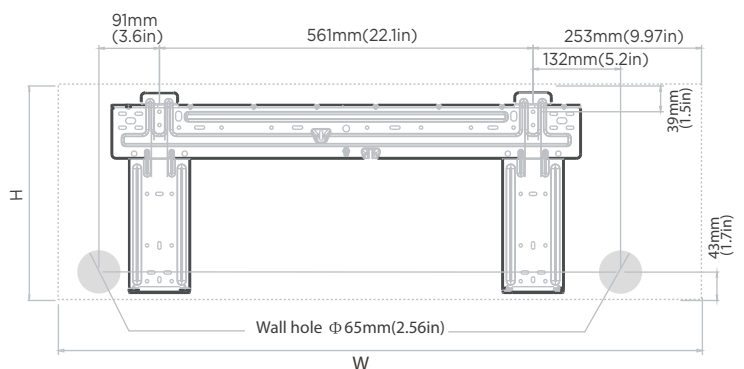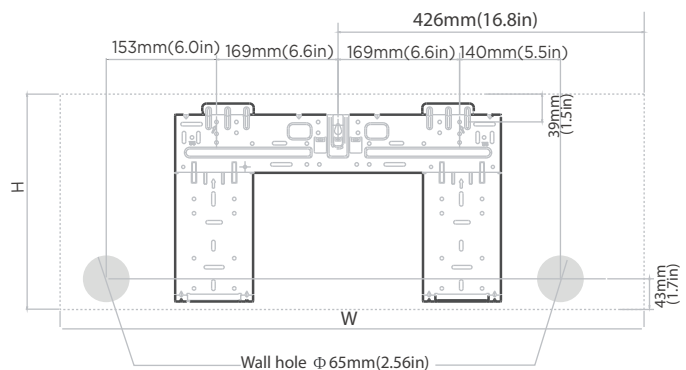
⚠ **CAUTION**

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

Drill wall hole

Φ 65mm
(2-1/2″)

Φ 90mm
(3-9/16″)
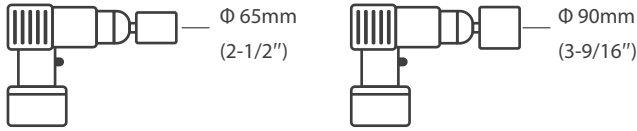
Using a 65mm (2-1/2″) or 90mm(3-9/16″)
core drill(depending on models)

▼

Wall

Indoor   Outdoor

5-7mm
(3/16-5/16″)
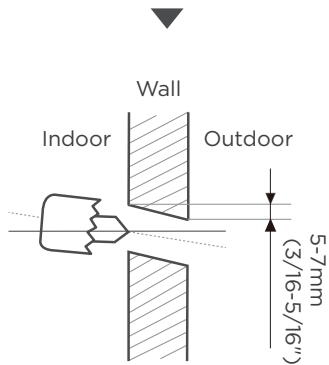
Drill the wall hole

Step 1:

Using a 65mm (2.5″) or 90mm(3.54″) core drill(depending on models), 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 5mm to 7mm (3/16-5/16″). This will ensure proper water drainage.

the protective
wall cuff

wall hole.
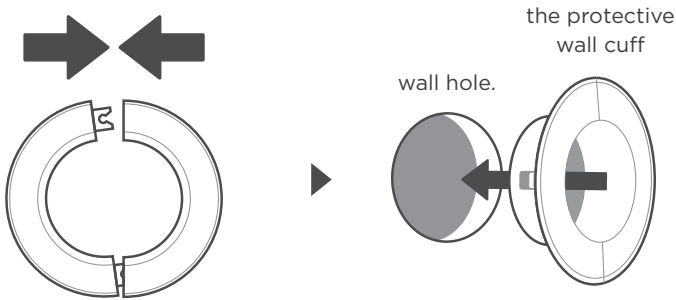
Place the protective wall cuff in the hole.

Step 2:

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.

💡 NOTE

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.

Prepare refrigerant piping

Left-hand side

Right-hand side

Left rear

Right rear
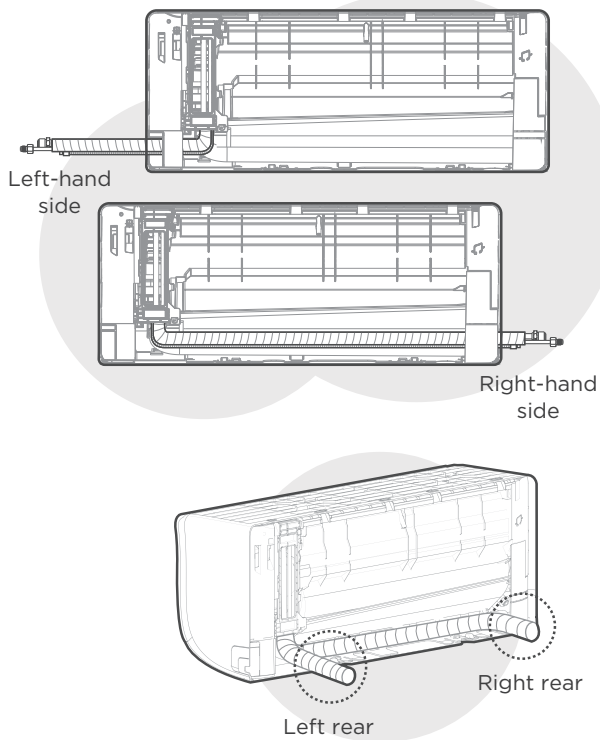
Four chooses to exit the piping

Knock-out Panel on the left & right side

Knock-out Panel

needle nose pliers

Step 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. You have four options for the exit direction of the piping. The description of the piping angle below for details.
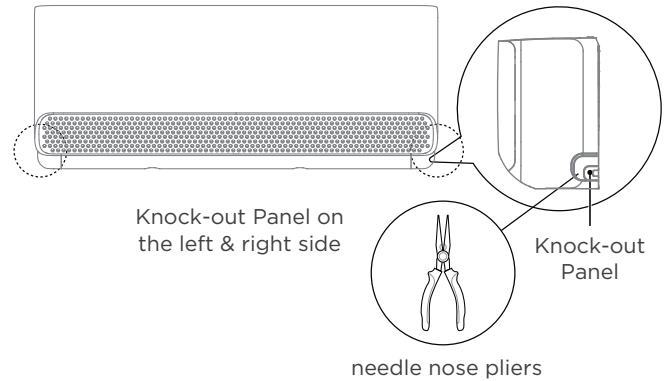
Step 2:

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.Use needle nose pliers if the plastic panel is too difficult to remove by hand.

Note: Groove has been made in the knock-out panel in order to cut it conveniently. The size of the slot is determined by the diameter of pipings.

Step 3:

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: If existing connective piping is already embedded in the wall, proceed directly to the **Connect Drain Hose** step.

⚠ CAUTION

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

Drain hose

vinyl tape

Connecting cable

Gas side piping

Drain hose

Liquid side piping

Make sure the drain hose is at the bottom

Drain pipe

Vinyl tape(narrow)

Drain pipe extension
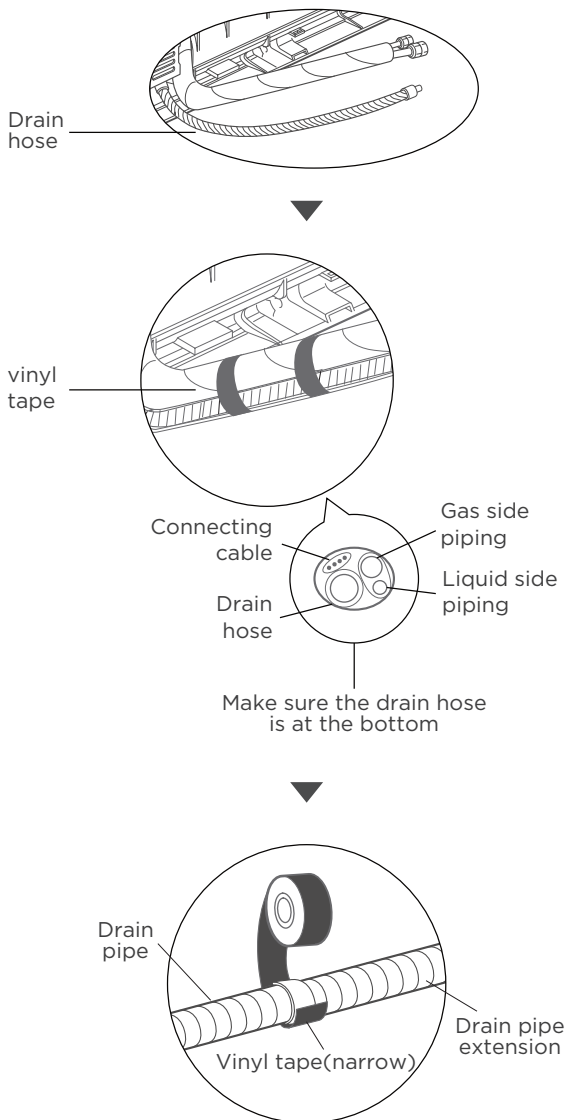
Step 1:

The drain hose can be attached to the left or right side. To ensure proper drainage, attach the drain hose on the same side as the refrigerant piping. Attach the drain hose extension (purchased separately) to the end of the 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.
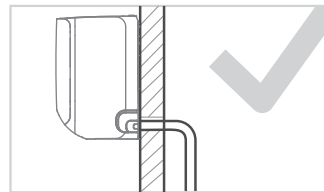
CORRECT
Make sure there are no kinks or dent in drain hose to ensure proper drainage.
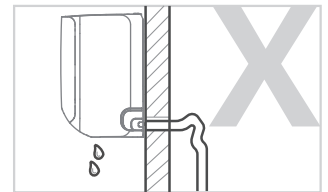
NOT CORRECT
Kinks in the drain hose will create water traps.
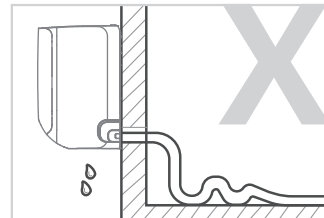
NOT CORRECT
Kinks in the drain hose will create water traps.
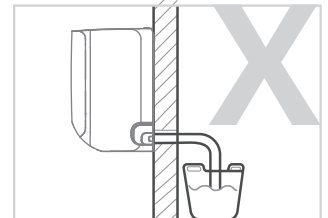
NOT CORRECT
Do not place the end of the drain hose in water or in containers that collect water. This will prevent proper drainage.

⚠ **CAUTION**

PLUG THE UNUSED DRAIN HOLE
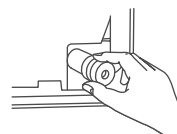
To prevent unwanted leaks you must plug the unused drain hole with the rubber plug provided.

⚠ WARNING

- **Before performing any electrical work, read these instructions.**
- **Before performing any electrlcal or wiring work, turn off the main power to the system.**

1. All wiring must comply with local and national electrical codes, and 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 the situation to the client, and cease installation until the safety issue is properly resolved.
4. If connecting power to fixed wiring, a switch or circuit breaker that disconnects all poles and has a contact separation of at least 1/8in (3mm) must be incorporated in the fixed wiring. The qualified technician must use an approved circuit breaker or switch.
5. Only the unit and no other appliance or power point must be connected to an individual branch circuit outlet.
6. Make sure to properly ground the air conditioner.
7. Every wire must be firmly connected. Loose wiring can cause the terminal to overheat, resulting in product malfunction and possible fire.
8. Do not let wires touch or rest against refrigerant tubing, the compressor, or any moving parts within the unit.
9. 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.
10 Power voltage should be within 90-110% of rated voltage. Insufficient power supply can cause malfunction, electrical shock, or fire.

⚠ WARNING

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

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.

Cable Types(Not applicable for North America)

- Indoor Power Cable (if applicable): H05VV-F or H05V2V2-F
- Outdoor Power Cable: H07RN-F or H05RN-F
- Signal Cable: H07RN-F

Minimum Cross-Sectional Area of

Power and Signal Cables (For reference)

Rated Current of Appliance (A)	Nominal Cross-Sectiona Area (mm^2)
> 3 and ⩽6	0.75
> 6 and ⩽10	1
> 10 and ⩽16	1.5
> 16 and ⩽25	2.5
> 25 and ⩽32	4
> 32 and ⩽40	6

CHOOSE THE RIGHT CABLE SIZE

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. Refer to this nameplate to choose the right cable, fuse, or switch.

1. Open front panel of the indoor unit.
2. Using a screwdriver, open the wire box cover on the right side of the unit. This will reveal the terminal block.
3. Unscrew the cable clamp below the terminal block and place it to the side.

4. Remove the plastic panel on the bottom left-hand side(facing the back of the unit).
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 down each wire to its corresponding terminal.
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 clamp down tightly.
8. Replace the wire cover on the front of the unit and the plastic panel on the back.

Terminal block
Wire cover
Screw
Cable clamp
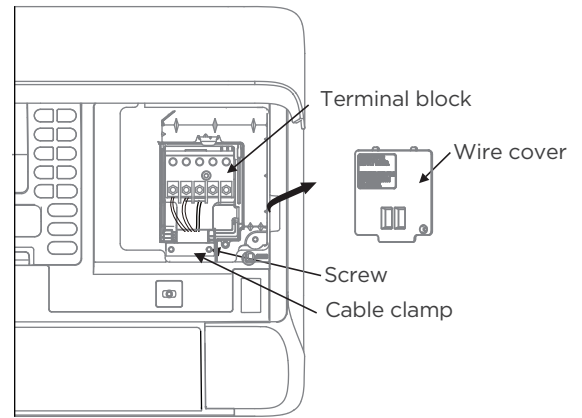
In North America

NOTE: Choose the cable type according to the local electrical codes and regulations. Please choose the right cable size according to the Minimum Circuit Ampacity indicated on the nameplate of the unit.

1. Facing the back of the unit, remove the plastic panel on the bottom left-hand side.
2. As shown in the illustration, insert the wires including the ground wire into the conduit and secure them with the lock nut onto the conduit mounting plate.
3. Match wire colors with terminal numbers on the indoor and outdoor unit's terminal blocks and firmly screw down the wires to the corresponding terminals.
4. Connect the ground wires to the corresponding terminals.
5. Pull the wires and check that the wires are securely fixed to the terminal block.

Conduit
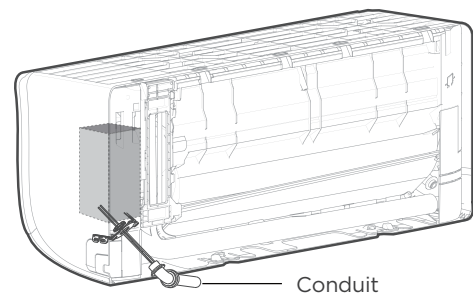
⚠ **DO NOT MIX UP LIVE AND NULL WIRES**
This is dangerous and can cause the air conditioning unit to malfunction.

💡 **NOTE**

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

Indoor Unit

Space behind unit

Signal wire

Refrigerant piping

Insulation tape
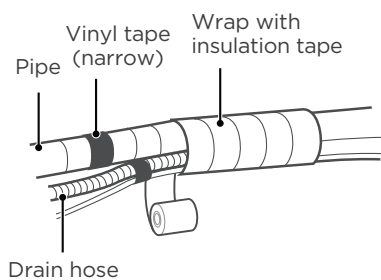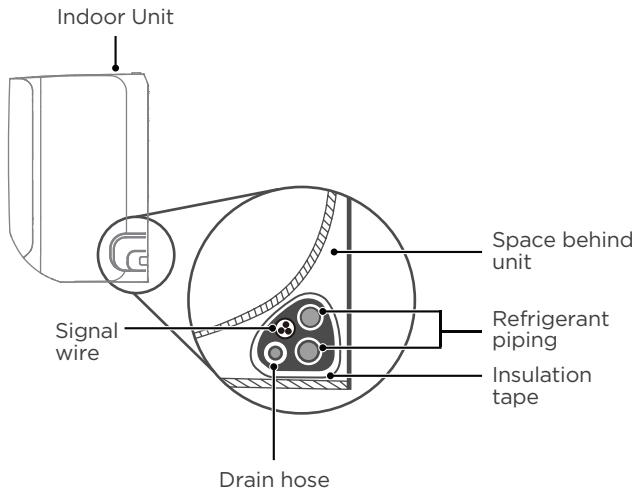
Drain hose

Step 1:

Bundle the drain hose, refrigerant pipes, and signal cable as shown in the figure(Not applicable for some locations in North America).

Step 2:

Using adhesive vinyl tape, attach the drain hose to the underside of the refrigerant pipes.

Pipe

Vinyl tape (narrow)

Wrap with insulation tape

Drain hose

Step 3:

Using insulation tape, wrap the refrigerant pipes, signal wire and drain hose tightly together.
Double-check that all items are bundled.

Do not intertwine signal cable with other wires

While bundling these items together,do not intertwine or cross the signal cable with any other wiring.

THE DRAIN HOSE MUST BE ON THE BOTTOM

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.

DO NOT WRAP THE ENDS OF THE PIPING

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 Electrical Checks and Leak Checks section of this manual).

6   Mount indoor unit

Put pipes in wall hole

Hook it and press down lightly to secure

Check that the unit is firmly mounted
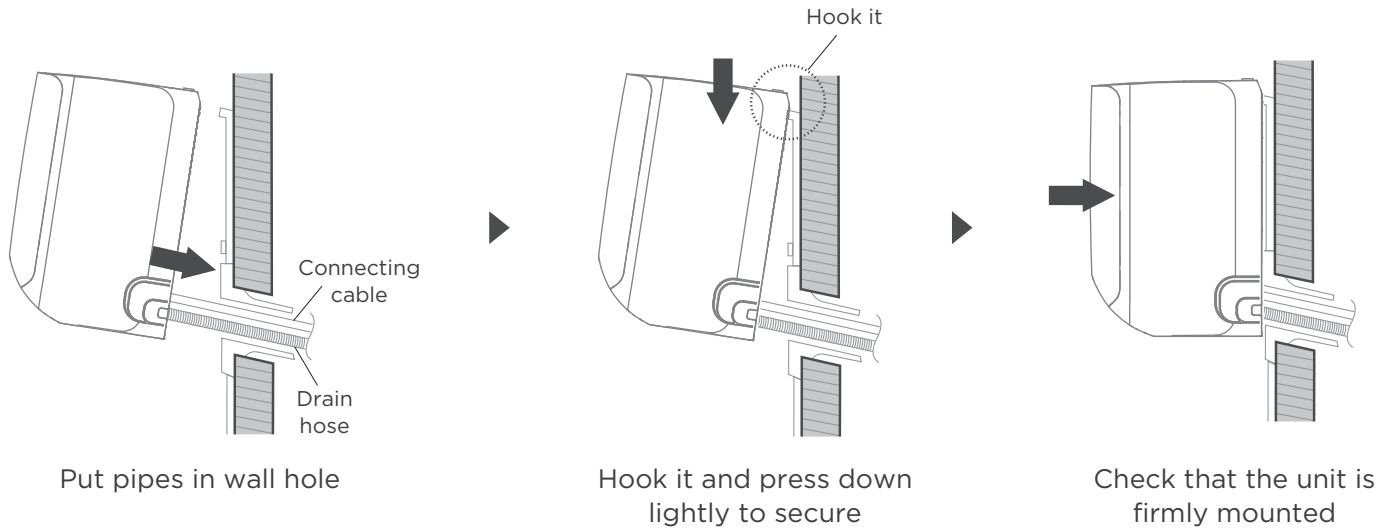
If you installed new connective piping to the outdoor unit, do the following:

- If you have already passed the refrigerant piping through the hole in the wall, proceed to Step 4.
- Otherwise, double-check that the ends of the refrigerant pipes are sealed to prevent dirt or foreign materials from entering the pipes.
- Slowly pass the wrapped bundle of refrigerant pipes, drain hose and signal wire through the hole in the wall.
- Hook the top of the indoor unit on the upper hook of the mounting plate.
- Check that the unit is hooked firmly on the mounting plate by applying slight pressure to the left and right-hand sides of the unit. The unit should not jiggle or shift.
- 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.
- Again, check that the unit is firmly mounted by applying slight pressure to the left and the right-hand sides of the unit.

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

- Hook the top of the indoor unit on the upper hook of the mounting plate.
- Use a bracket or wedge to prop up the unit, giving you enough room to connect the refrigerant piping, signal cable and drain hose.
- Connect drain hose and refrigerant piping (refer to **Refrigerant Piping Connection** section of this manual for instructions).
- Keep the pipe connection point exposed to perform the leak test (refer to **Electrical Checks** and **Leak Checks section** of this manual).
- After the leak test, wrap the connection point with insulation tape.
- Remove the bracket or wedge that is propping up the unit.
- 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.

Wedge

30°
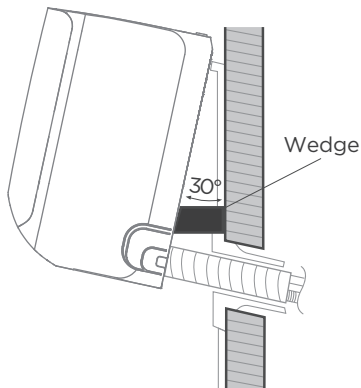
💡 NOTE : UNIT IS ADJUSTABLE

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 embedded pipes to the indoor unit, the unit can be adjusted left or right by about 30-50mm (1.18-1.96in), depending on the model.

30-50mm
(1-3/16~2in)

30-50mm
(1-3/16~2in)

Move to left or right
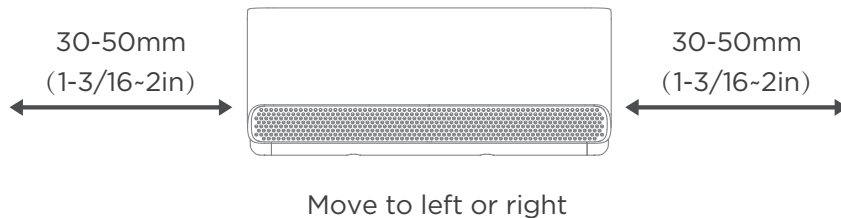
⚠ CAUTION

For the units adopt the following pipe connectors, please strictly perform the piping work in accordance with the following instructions.

Red point protruding

Connector A

Connector B
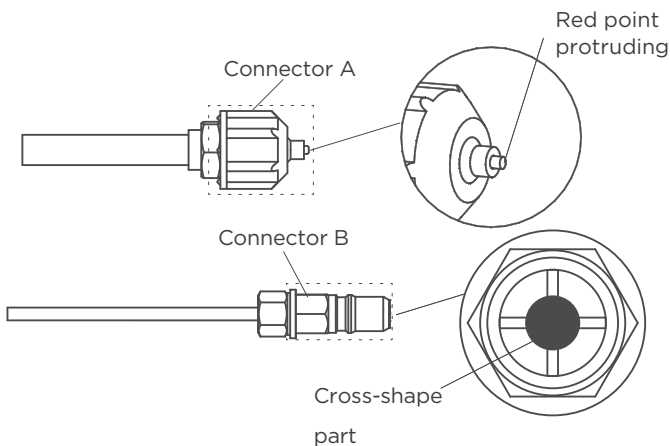
Cross-shape part

- Before performing the refrigerant piping connection, always wear work gloves and goggles and remember that the connectors A and B are not allowed to face people directly.
- Keep pressing the cross-shape part of connector B with a tool for about 5~10 seconds until the red protruding point of connector A retracts completely.
- Remove connectors A and B, then perform the refrigerant piping connection between indoor unit and outdoor unit.

Installation Of Outdoor Unit

1   **Select installation location**

💡 **NOTE** : PRIOR TO INSTALLATION

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

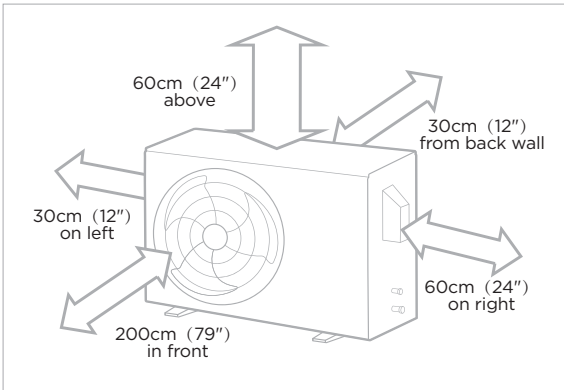**Proper installation locations meet the following standards:**

60cm（24″）above

30cm（12″）from back wall

30cm（12″）on left

60cm（24″）on right

200cm（79″）in front

☑ 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 other people.

Long-term

☑ Meets all spatial requirements shown in Installation Space Requirements above.

☑ Protected from prolonged periods of direct sunlight or rain.

☑ Where snowfall is anticipated, take appropriate measures to prevent ice buildup and coil damage.

● **NOTE** Install the unit by following local codes and regulations , there may be differ slightly between different regions.

⚠ **CAUTION:**

SPECIAL CONSIDERATIONS FOR EXTREME WEATHER

**If the unit is exposed to heavy wind:**

Install unit so that 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 illustrations 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 air flow around the unit.

If the unit is frequently exposed to salty air(seaside):

Use outdoor unit that is specially designed to resist corrosion.

Strong wind

Strong wind

90° angle to the direction of the wind
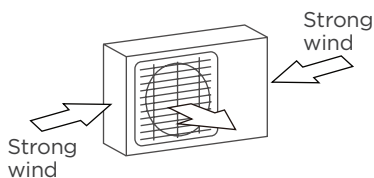
Wind Baffle

Strong wind
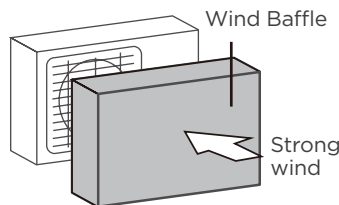
Build a wind Baffle to protect the unit
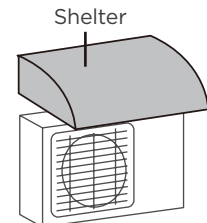
Shelter

Build a shelter to protect the unit

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 a excessive amounts of salty air.

2 **Install drain joint(Heat pump unit only)**

Base pan hole of
outdoor unit
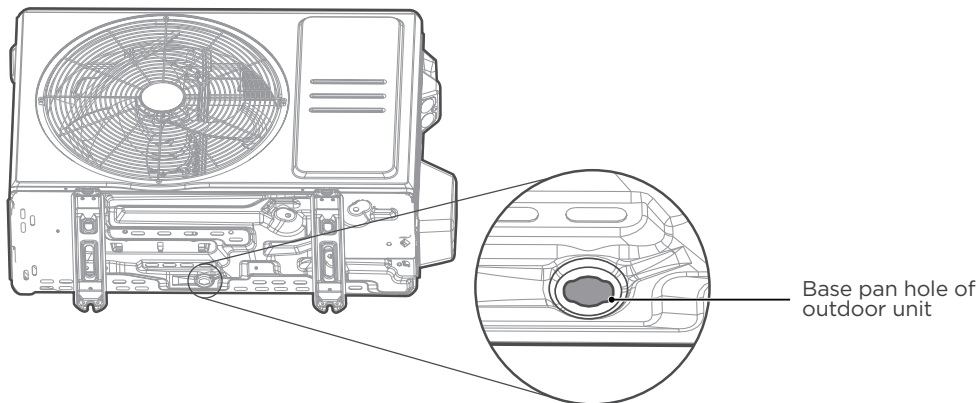
Step 1:

Find out the base pan hole of outdoor unit.
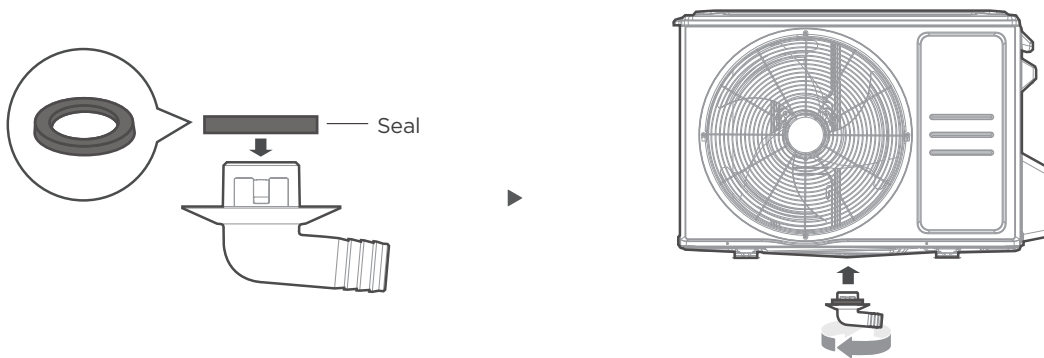
Seal

Step 2:

- Fit the rubber seal on the end of the drain joint that will connect to the
  outdoor unit.
- Insert the drain joint into the hole in the base pan of the unit. The drain joint
  will click in place.
- Connect a drain hose extension (not included) to the drain joint to redirect
  water from the unit during heating mode.

⚠ **WARNING**

WHEN DRILLING INTO CONCRETE, EYE PROTECTION IS RECOMMENDED AT ALL TIME.

- The outdoor unit can be anchored to the ground or to a wall-mounted bracket with bolt(M10). Prepare the installation base of the unit according to the dimensions below.

- The following is a list of different outdoor unit sizes and the distance between their mounting feet.

Top view   Front view

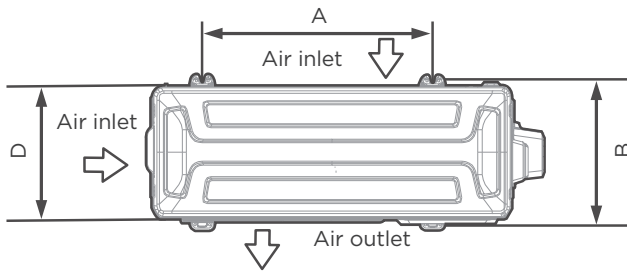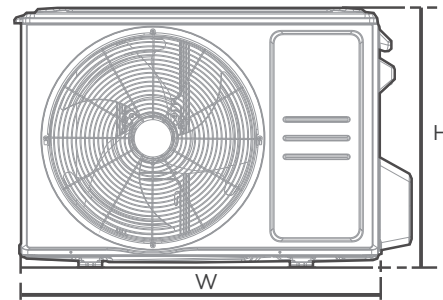| Outdoor Unit Dimensions (mm)	Mounting Dimensions	
W x H x D	Distance A (mm)	Distance B (mm)
680x542x248 (26.8"x 21.3"x 9.8")	452 (17.8")	230 (9.1")
720x495x270 (28.3"x 19.5"x 10.6")	452 (17.8")	255 (10.0")
765x555x303 (30.1"x 21.8"x 11.9")	452 (17.8")	286(11.3")
805x554x330 (31.7"x 21.8"x 12.9")	511 (20.1")	317 (12.5")
890x673x342 (35.0"x 26.5"x 13.5")	663 (26.1")	354 (13.9")
946x810x420 (37.2"x 31.9"x 16.5")	673 (26.5")	403 (15.9")
946x810x410 (37.2"x 31.9"x 16.1")	673 (26.5")	403 (15.9")

If you install the unit on the ground or on a concrete mounting platform, do the following:

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

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

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

⚠ **CAUTION**

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

⚡ **WARNING - Before the Operation**

- All wiring work must be performed strictly in accordance with the wiring diagram located inside of the wire cover of the outdoor unit.
- Before performing any electrical or wiring work,turn off the main power to the system.

Prepare the cable for connection

Please choose the right cable according to the "Cable types" on page 24.

- Using wire strippers, strip the rubber jacket from both ends of cable to reveal about 40mm (1.57in) of the wires inside.
- Strip a few millimetres of insulation from the ends of the wires.
- Using a wire crimper, crimp u-lugs on the ends of the wires.

Pay attention to the live wire

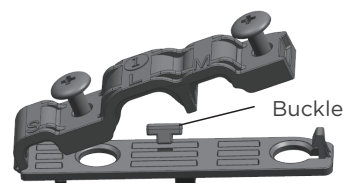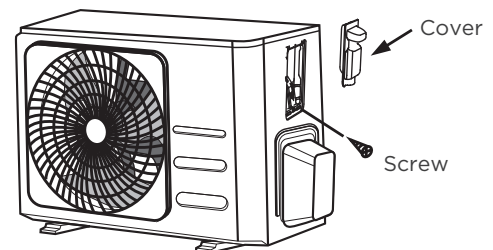While crimping wires, make sure you clearly distinguish the live ("L") wire from other wires.

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.

- Unscrew the electrical wiring cover and remove it.
- Unscrew the cable clamp below the terminal block and place it to the side.
- Connect the wire according to the wiring diagram and firmly screw the u-lug of each wire to its corresponding terminal.
- After checking to make sure every connection is secure, loop the wires around to prevent rain water from flowing into the terminal.
- Using the cable clamp, fasten the cable to the unit. Screw the cable clamp down tightly.
- Insulate unused wires with PVC electrical tape. Arrange them so that they do not touch any electrical or metal parts.
- Replace the wire cover on the side of the unit and screw it in place.

NOTE: If the cable clamp looks like the illustration on the right, please select the appropriate through-hole according to the diameter of the wire.

Choose the right cable size

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.

Cover

Screw

Buckle

Three hole size: Small, Large, Medium
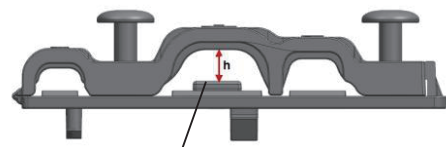
If the cable is not secured well, use the buckle to prop it up , so it can be clamped tightly.

In North America

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

- Remove the wire cover from the unit by loosening the 3 screws.
- Dismount caps on the conduit panel.
- Temperarily mount the conduit tubes(not included) on the conduit panel.
- Properly connect both the power supply and low voltage lines to the corresponding terminals on the terminal block.
- Ground the unit in accordance with local codes.
- Be sure to size each wire allowing several inches longer than the required length for wiring.
- Use lock nuts to secure the conduit tubes.

  NOTE: Please choose the right cable size according to the Minimum Circuit Ampacity indicated on the nameplate of the unit.

Please select the appropriate through-hole according to the diameter of the wire.
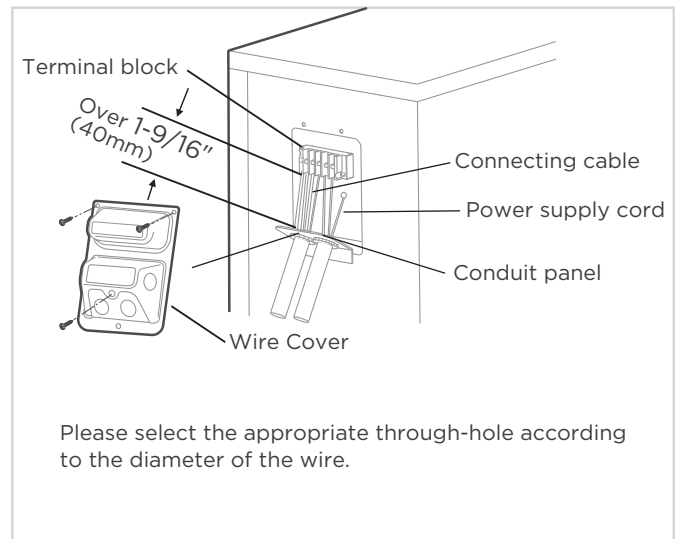
How to properly connect the wire lines.
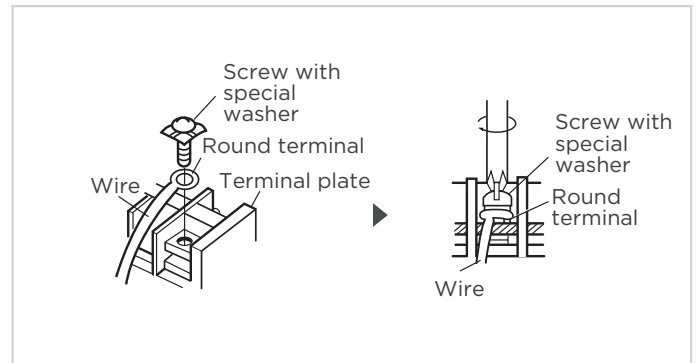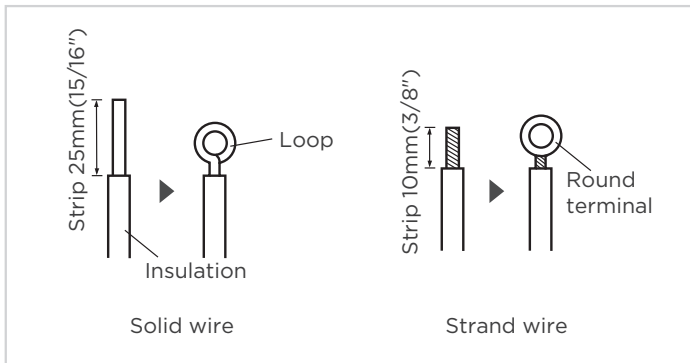
Step 1:

Termination of wire:

Step 2:

Connecting the line to the corresponding terminals on the terminal block.

(A)

(B)

24

Refrigerant Piping Connection

1 | **Piping Connection Precautions**

⚠ WARNING

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 EXPLOSION AND INJURY.

Note on Pipe Length

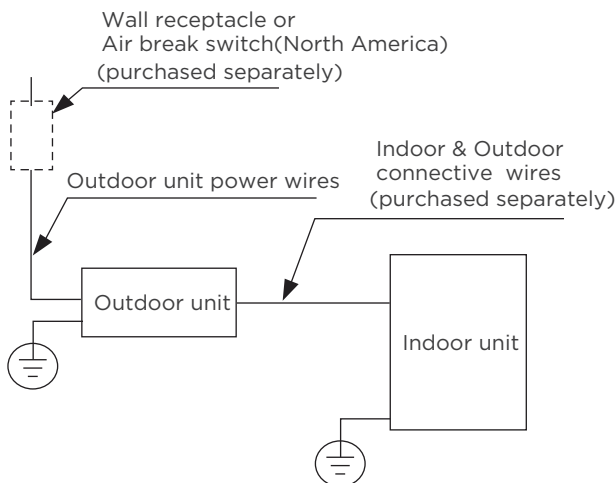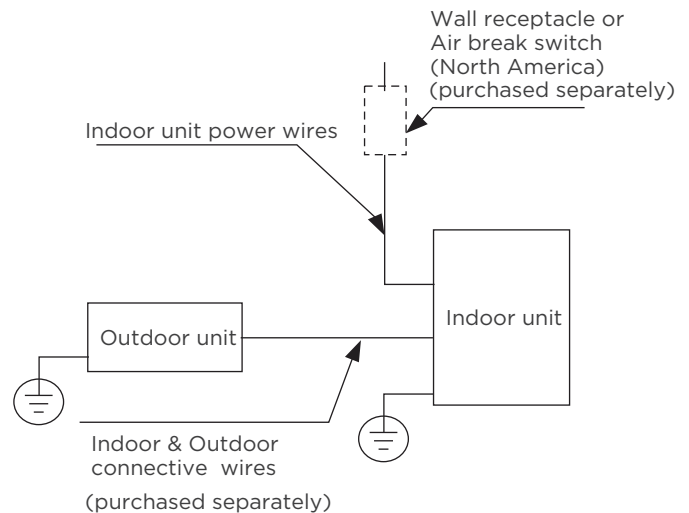The length of refrigerant piping will affect the performance and energy efficiency of the unit. Nominal efficiency is tested on units with a pipe length of 5 meters (16.5ft). A minimum pipe run of 3 metres is required to minimise vibration & excessive noise.

Maximum Length and Drop Height of Refrigerant Piping per Unit Model

Model	Capacity (BTU/h)	Max. Length (m)	Max. Drop Height (m)
R410A,R32 Inverter Split Air Conditioner	< 15,000	25 (82ft)	10 (33ft)
	≥ 15,000 and < 24,000	30 (98.5ft)	20 (66ft)
	≥ 24,000 and < 36,000	50 (164ft)	25 (82ft)
	≥ 36,000 and < 60,000	65 (213ft)	30 (98.5ft)
R22 Fixed-speed Split Air Conditioner	< 18,000	10 (33ft)	5 (16ft)
	≥ 18,000 and < 21,000	15 (49ft)	8(26ft)
	≥ 21,000 and < 35,000	20 (66ft)	10(33ft)
	≥ 35,000 and < 41,000	25 (82ft)	10 (33ft)
R410A, R32 Fixed-speed Split Air Conditioner	< 18,000	20 (66ft)	8(26ft)
	≥ 18,000 and < 36,000	25 (82ft)	10(33ft)
	≥ 36,000 and < 60,000	30 (98.5ft)	15 (49ft)

Connection Instructions – Refrigerant Piping

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.

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

✓ 90°   ✗ Oblique   ✗ Rough   ✗ Warped
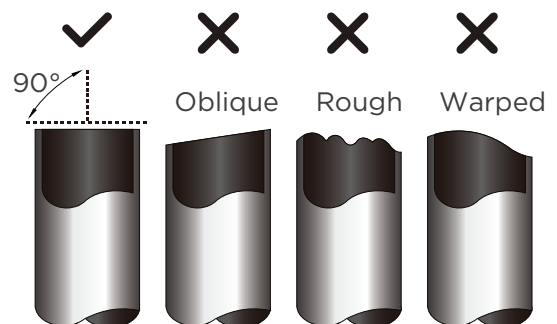
🚫 DO NOT DEFORM PIPE WHILE CUTTING

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

⚠ CAUTION

CHECK THAT PIPE WAS FLARED EVENLY AND THAT THERE ARE NO CRACKS. ENSURE THE PIPE IS SEALED.
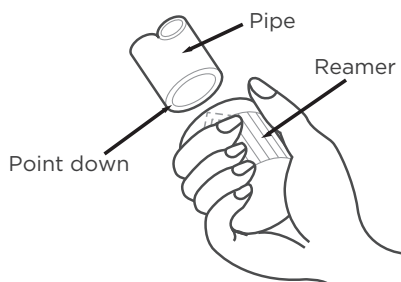
Step 2: Remove burrs

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

- 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.

Pipe

Reamer

Point down

Step 3: Flare pipe ends

Proper flaring is essential to achieve an airtight seal.

- After removing burrs from 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 pipe. Make sure they are facing in the right direction, because you can't put them on or change their direction after flaring.

Flare nut

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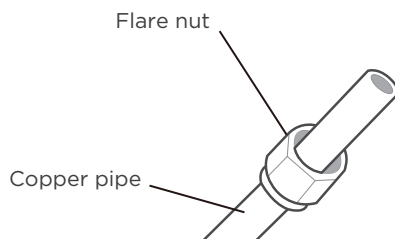
- Remove PVC tape from ends of the pipe when ready to perform the flaring process.
- Clamp flare form on the end of the pipe. The end of the pipe must extend beyond the edge of the flare form in accordance with the dimensions shown in the table below.

Handle

Bar

Yoke

Cone

Clamp handle

Red arrow mark
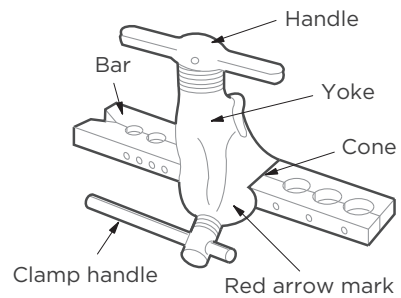
PIPING EXTENSION BEYOND FLARE FORM

Outer Diameter of Pipe (mm)	A (mm)	
	Min.	Max.
Ø 6.35 (Ø 1/4")	0.7 (0.0275")	1.3 (0.05")
Ø 9.52 (Ø 3/8")	1.0 (0.04")	1.6 (0.063")
Ø12.7 (Ø 1/2")	1.0 (0.04")	1.8 (0.07")
Ø 16 (Ø 5/8")	2.0 (0.078")	2.2 (0.086")
Ø 19 (Ø 3/4")	2.0 (0.078")	2.4 (0.094")

Flare form

A
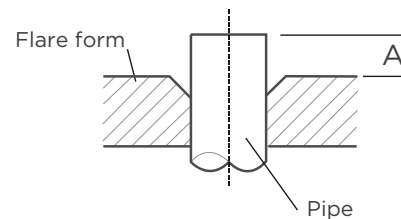
Pipe

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

2 **Refer to Torque Requirement to connect pipes**

⚠ CAUTION

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.

MINIMUM BEND RADIUS

When bending connective refrigerant piping, the minimum bending radius is 10cm.

Radius ⩾10cm (4″)

Instructions for Connecting Piping to Indoor Unit

Step 1:

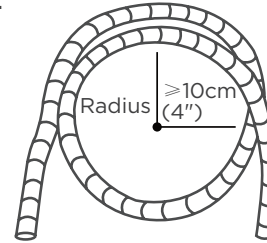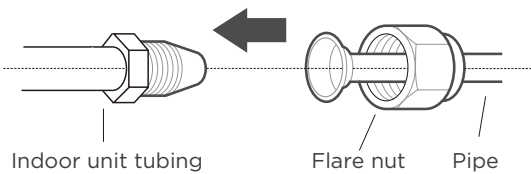- Align the center of the two pipes that you will connect.

Indoor unit tubing   Flare nut   Pipe

Step 2:

- Tighten the flare nut as tightly as possible by hand.
- Using a spanner, grip the nut on the unit tubing.
- 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.

Spanner (fixed)
Flare nut
Connection pipe
Torque wrench
Indoor unit tubing
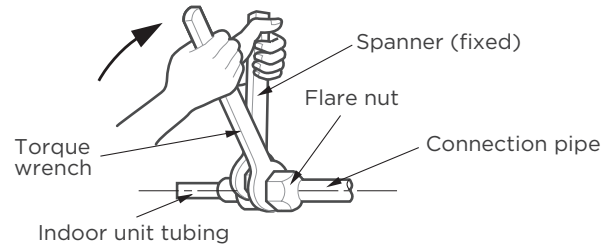
TORQUE REQUIREMENTS

Outer Diameter of Pipe(mm)	Tightening Torque(N•m)	Flare dimension(B)(mm)	Flare shape
Ø 6.35 (Ø 1/4")	18~20(180~200kgf.cm)	8.4~8.7 (0.33~0.34")	
Ø 9.52 (Ø 3/8")	32~39(320~390kgf.cm)	13.2~13.5 (0.52~0.53")	90$\pm$4°
Ø 12.7 (Ø 1/2")	49~59(490~590kgf.cm)	16.2~16.5 (0.64~0.65")	45$\pm$2° B
Ø 16 (Ø 5/8")	57~71(570~710kgf.cm)	19.2~19.7 (0.76~0.78")	R0.4~0.8
Ø 19 (Ø 3/4")	67~101(670~1010kgf.cm)	23.2~23.7 (0.91~0.93")	

🚫 DO NOT USE EXCESSIVE TORQUE

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

NOTE

This section still needs to be operated according to the **TORQUE REQUIREMENTS** chart on the previous page.

Unscrew
the cover
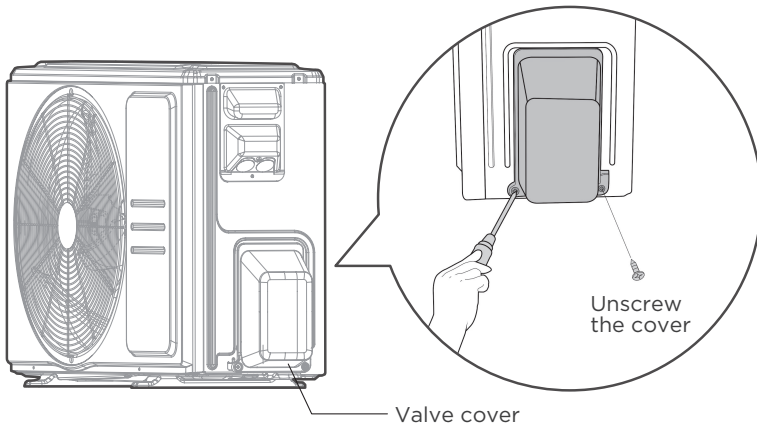
Valve cover

Step 1:

- Unscrew the cover from the packed valve on the side of the outdoor unit.

Torque wrench

Step 2:

- Remove protective caps from ends of valves.
- Align flared pipe end with each valve, and tighten the flare nut as tightly as possible by hand.
- Using a spanner, grip the body of the valve. **Do not** grip the nut that seals the service valve.
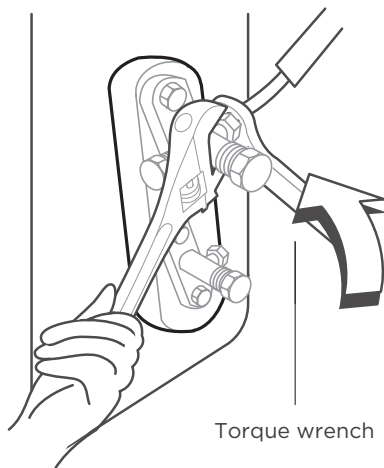
! USE SPANNER TO GRIP MAIN BODY OF VALVE

Torque from tightening the flare nut can snap off other parts of valve.

Connect all
pipes
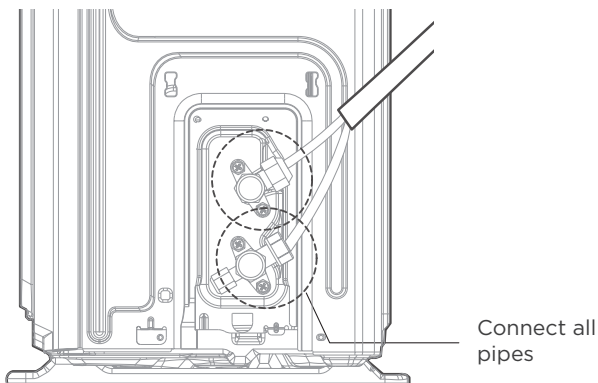
Step 3:

- While firmly gripping the body of the valve, use a torque wrench to tighten the flare nut according to the correct torque values.
- Loosen the flaring nut slightly, then tighten again.
- Repeat Steps 1 to 3 for the remaining pipe.

Air Evacuation

💡 NOTE ：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 or if the unit is relocated.

❗ BEFORE PERFORMING EVACUATION

☑ 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

Indoor unit

Outdoor unit

Manifold valve

-76cmHg

Compound gauge

Pressure gauge

Low pressure valve

High pressure valve

Pressure hose or Charge hose
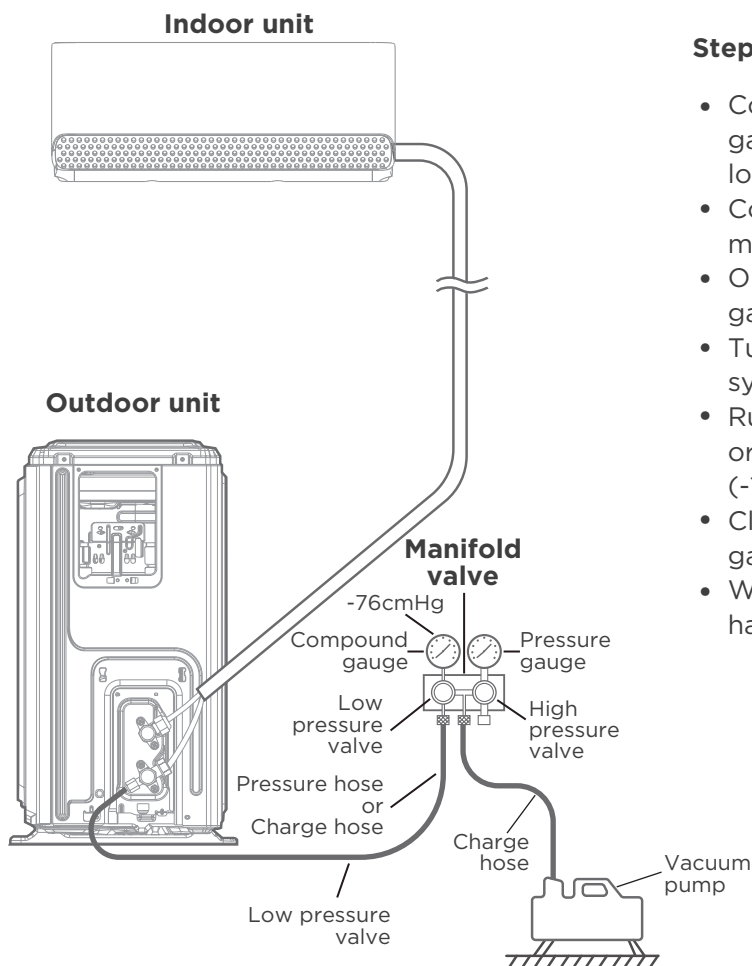
Charge hose

Vacuum pump

Low pressure valve

Step 1:

- Connect the charge hose of the manifold gauge to the service port on the outdoor unit's low pressure valve.
- Connect another charge hose from the manifold gauge to the vacuum pump.
- Open the low pressure side of the manifold gauge. Keep the high pressure side closed.
- Turn on the vacuum pump to evacuate the system.
- Run the vacuum pump for at least 15 minutes, or until the compound meter reads -76cmHG (-10 Pa).
- Close the Low Pressure side of the manifold gauge and turn off the vacuum pump.
- Wait for 5 minutes, then check that there has been no change in system pressure.

Step 2:

Flare nut

Cap

valve body

valve stem
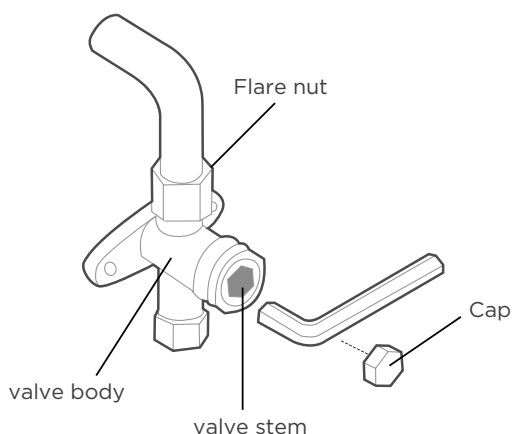
- If there has been a change in system pressure, refer to the Gas Leak Check section for information on how to check for leaks.
- If there is no change in system pressure, unscrew the cap from the packed valve (high pressure valve).
  Insert hexagonal wrench into the packed valve(high pressure valve) and open the valve by turning the wrench in a 1/4 counter clockwise turn. Listen for gas to exit the system, then close the valve after 5 seconds.
- 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.
- Remove the charge hose from the service port.
- Using a hexagonal wrench, fully open both the high pressure and low pressure valves.
- Tighten valve caps on all three valves (service port, high pressure and low pressure) by hand. You may tighten it further using a torque wrench if needed.

❗ OPEN VALVE STEMS GENTLY

When opening 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 standard pipe length varies according to local regulations. For example, in North America, the standard pipe length is 7.5m (25'). In other areas, the standard pipe length is 5m (16'). 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:

ADDITIONAL REFRIGERANT PER PIPE LENGTH

Connective Pipe Length (m)	Air Purging Method	Additional Refrigerant	
⩽ Standard pipe length	Vacuum Pump	N/A	
> Standard pipe length	Vacuum Pump	Liquid Side: Ø 6.35 (1/4") R410A: (Pipe length – standard length) x 15g/m (Pipe length – standard length) x 0.16oZ/ft R32: (Pipe length – standard length) x 12g/m (Pipe length – standard length) x 0.13oZ/ft R22: (Pipe length – standard length) x 20g/m (Pipe length – standard length) x 0.21oZ/ft	Liquid Side: Ø 9.52 (3/8") R410A: (Pipe length – standard length) x 30g/m (Pipe length – standard length) x 0.32oZ/ft R32: (Pipe length – standard length) x 24g/m (Pipe length – standard length) x 0.26oZ/ft R22: (Pipe length – standard length) x 40g/m (Pipe length – standard length) x 0.42oZ/ft

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🚫 DO NOT MIX REFRIGERANT TYPES.

Electrical and Gas Leak Checks

⚠ WARNING - RISK OF ELECTRIC SHOCK

ALL WIRING MUST COMPLY WITH LOCAL AND NATIONAL ELECTRICAL CODES AND MUST BE INSTALLED BY A LICENSED ELECTRICIAN.

🛈 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.

BEFORE TEST RUN

Check Grounding Work

Measure grounding resistance by visual detection and with grounding resistance tester.

DURING TEST RUN

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.

**Note:** This may not be required for some locations in North America.

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 leak detector, refer to the device's operating manual for proper usage instructions.
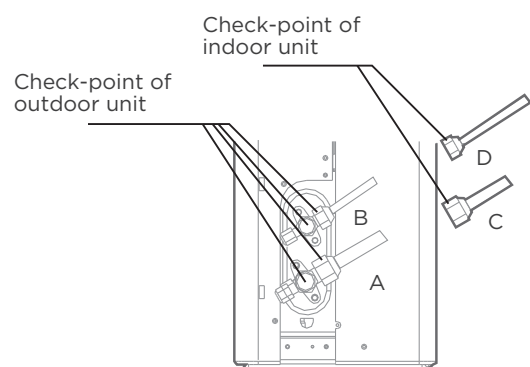
A: Low pressure stop valve
B: High pressure stop valve
C& D: Indoor unit flare nuts

AFTER PERFORMING GAS LEAK CHECKS

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

Test Run

Test Run Instructions

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

- Connect power to the unit.
- Press the **ON/OFF** button on the remote controller to turn it on.
- Press the **MODE** button to scroll through the following functions, one at a time:
  - COOL–Select lowest possible temperature
  - HEAT–Select highest possible temperature
- 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		

DOUBLE-CHECK PIPE CONNECTIONS

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. Refer to **Gas Leak Check** section for instructions.

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

IF AMBIENT TEMPERATURE IS BELOW 16°C(60°F)

You can't use the remote controller to turn on the COOL function when the ambient temperature is below 16°C/62°F. In this instance, you can use the **MANUAL CONTROL** button to test the COOL function.

- Lift the front panel of the indoor unit and raise it until it clicks in place.
- The **MANUAL CONTROL** button is located on the right-hand side of the unit. Press it 2 times to select the COOL function.
- Perform Test Run as normal.

Manual control button
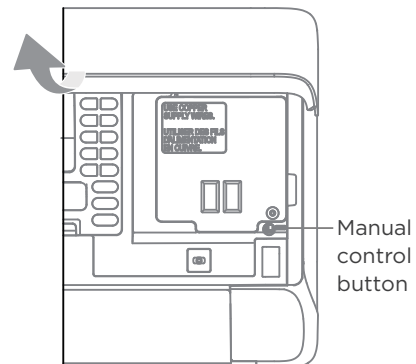
Packing and Unpacking the Unit

Instructions for packing and unpacking the unit:

Unpacking:
Indoor unit:
1. Cut the sealing tape on the carton with a knife, one cut on the left, one cut in the middle and one cut on the right.
2. Use a pair of pliers to take out the sealing nails on the top of the carton.
3. Open the carton.
4. Take out the middle support plate if it is included.
5. Take out the accessory package and take out the connecting wire if it is included.
6. Lift the machine out of the carton and lay it flat.
7. Remove the left and right packaging foam or the upper and lower packaging foam, untie the packaging bag.

Outdoor Unit
1. Cut the packing belt.
2. Take the unit out of the carton.
3. Remove the foam from the unit.
4. Remove the packaging bag from the unit.

Packing:
Indoor unit:
1. Put the indoor unit into the packing bag.
2. Attach the left and right packaging foam or the upper and lower packaging foam to the unit.
3. Put the unit into the carton, then put the accessory package in.
4. Close the carton and seal it with the tape.
5. Using the packing belt if necessary.

Outdoor unit:
1. Put the outdoor unit into the packaging bag.
2. Put the bottom foam into the box.
3. Put the unit into the carton, then put the upper packaging foam on the unit.
4. Close the carton and seal it with the tape.
5. Using the packing belt if necessary.

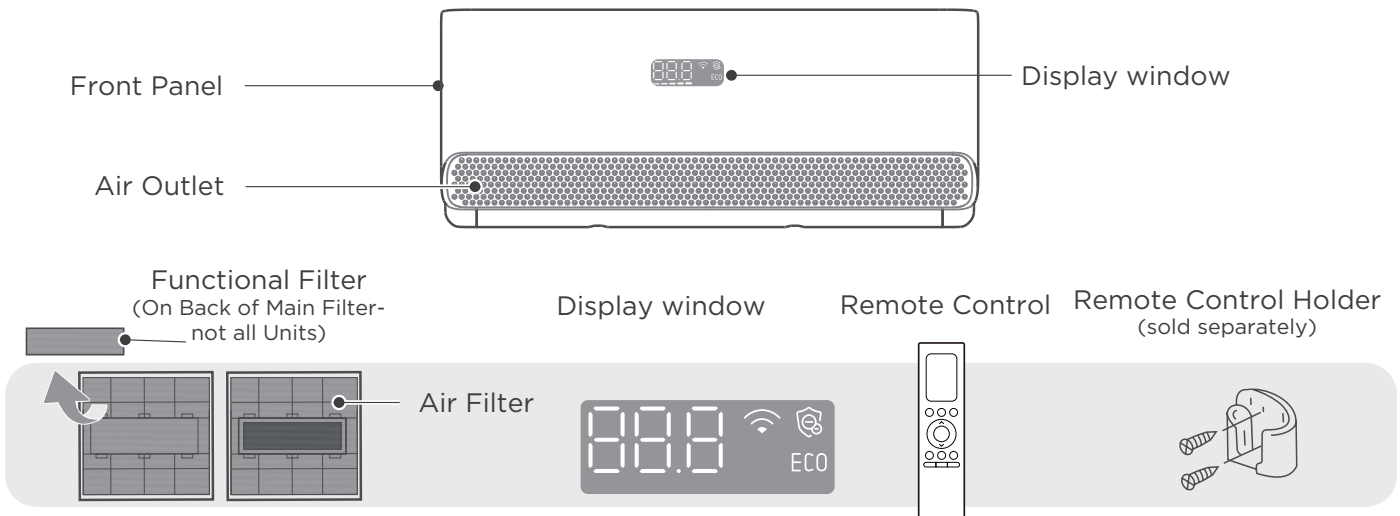**NOTE:** Please keep all packaging items if you may need then in the future.

OPERATION INSTRUCTIONS

> 💡 **NOTE**
> - Different models have different front panels and display window. Some features described below may not be applicable to the air conditioner you purchased. Please check the indoor display window of the unit you purchased.
> - Illustrations in this manual are for explanatory purposes. The actual shape of your indoor unit may be slightly different.

Indoor Unit Display

Front Panel

Display window

Air Outlet

Functional Filter
(On Back of Main Filter-
not all Units)

Display window

Remote Control

Remote Control Holder
(sold separately)

Air Filter

Display Code	Display Code Meanings
88.8	• Displays temperature, operation feature and Error codes.
📶	• When Wireless Control feature is activated.
🛡	• When Air magic or UV-C lamp(if any) feature is activated.
ECO	• When ECO feature is activated.
ON (for 3s when)	• TIMER ON is set (if the unit is OFF, " ON " remains on when TIMER ON is set). • UV-C lamp, Fresh, Brezzeless, SWING, TURBO, or SILENT features is turned on.
OF (for 3s when)	• TIMER OFF is set. • UV-C lamp, Fresh, Brezzeless, SWING, TURBO, or SILENT features is turned off.
dF	• When defrosting(cooling & heating units).
CL	• When active clean function is turned on.
FP	• When 8°C(46°F) heating mode is turned on.

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 stop operation.

Inverter Split Type

	COOL Mode	HEAT Mode	DRY Mode
Room Temp.	16°C~32°C(60°F~90°F)	0°C~30°C(32°F~86°F)	10°C~32°C(50°F~90°F)
Outdoor Temp.	0°C~50°C(32°F~122°F)	-15°C~24°C(5°F~75°F)	0°C~50°C(32°F~122°F)
	-15°C~50°C(5°F~122°F) For models with low temp. cooling systems.		
	-15°C~50°C(5°F~122°F) For special tropical models	-15°C~24°C(5°F~75°F)	0°C~52°C(32°F~126°F) For special tropical models

FOR OUTDOOR UNITS WITH AUXILIARY ELECTRIC HEATER

When the outside temperature is below 0°C (32°F), we strongly recommend keeping the unit plugged in at all time to ensure smooth ongoing performance.

Fixed-speed Type

	COOL Mode	HEAT Mode	DRY Mode
Room Temp.	16°C~32°C (60°F~90°F)	0°C~30°C (32°F~86°F)	10°C~32°C(50°F~90°F)
Outdoor Temp.	18°C~43°C (64°F~109°F)	-7°C~24°C(19°F~75°F)	11°C~43°C (52°F~109°F)
	-7°C~43°C (19°F~109°F) For models with low-temp cooling systems		18°C~43°C (64°F~109°F)
	18°C~52°C (64°F~126°F) For special tropical models	-15°C~24°C(5°F~75°F)	18°C~52°C (64°F~126°F) For special tropical models

NOTE: If the air conditioner is operated when the relative humidity of the room is more than 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 the fan mode to HIGH.

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.

More features

- **Auto-Restart**
  If the unit loses power, it will automatically restart with its prior settings once power has been restored.

- **Anti-mildew(not all units)**
  When turning off the unit from COOL, AUTO (COOL), or DRY modes, the air conditioner will continue to operate at a very low power and dry up condensed water and prevent mildew growth.

- **Wireless Control (model dependent)**
  Wireless control allows you to control your air conditioner using your mobile phone and a wireless connection.
  USB device access, parts replacement and maintenance operations must be carried out by qualified staff.

- **Active Clean function(not all units)**
  -- The Active Clean Technology washes away dust when it adheres to the heat exchanger by automatically freezing and then rapidly thawing the frost. A "beep-beep" sound will be heard. The Active clean operation is used to produce more condensed water to improve the cleaning effect and cold air will blow out. After cleaning, the internal fan then keeps operating with hot air to dry the evaporator, thus keeping the inside clean.
  -- When this function is turned on, the indoor unit display window displays "CL ", after 20 to 130 minutes, the unit will turn off automatically and terminate Active Clean function.
  -- For some units, the system will start the high-temperature cleaning process and the temperature of the air coming out may be very high. Please keep your distance. This will likely lead to an increase in room temperature.

- **Louver Angle Memory**
  When turning on your unit, the louver will automatically resume its former angle.

- **Air Magic+ function(not all units)**
  An outer double tube emitter produces an electric field to form millions of negative ions. The super negative ion shochwave purifies the air in the room.

- **Cool Flash function**
  Cool Flash technology can very rapidly cool an entire room. This is achieved by producing a large air volume and high flow of air.

- **Heat Flash function**
  Similarly, a fast and strong flow of heated air can warm up an entire room in a short time.

- **Refrigerant Leakage Detection**
  The indoor unit will automatically display "EL0C" when it detects refrigerant leakage.

- **UV-C lamp function(not all units)**
  When the UV lamp function is initiated, the UV lamp emits UV-C radiation to help purify the air inside.

- **Breezeless function**
  - The revolutionary double deflectors can alter, redirect and disperse the airflow. The air flow can be softened to the level preferred.
  - Enjoy the fresh, cool air with as much or as little direct breeze as you like.
  - The deflector consist of thousands of mini-holes that can transform the strong airflow into thousands of tiny streams of air giving you a subtle cooling sensation.
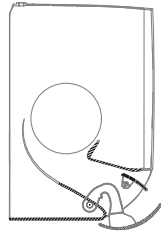
- **Breezeless Operation**

  The air conditioner will adjust the louver angle and fan speed automatically on the basis of room temperature and humidity. There are four different operation states, See Fig. 1-4 .
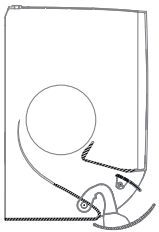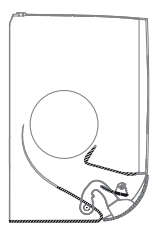
  Breeze billowing away   Mild breeze

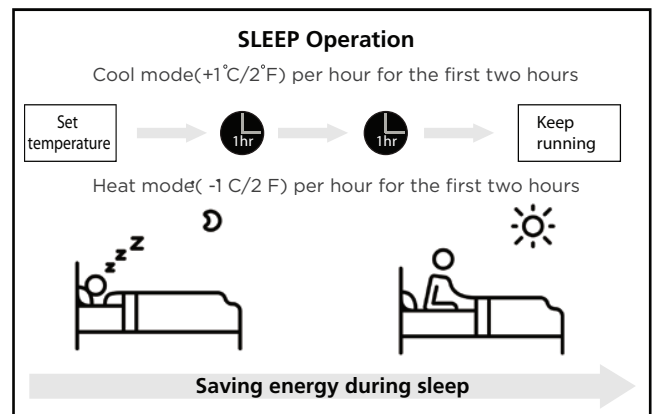 **Fig. 1**   **Fig. 2**
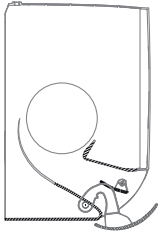
  Breezeless   Breezeless

  Fig. 3   **Fig. 4**

  NOTE: For rooms requiring a lot of cooling or if the the outdoor temperature is very high, breezeless operationis not recommended, as this may result in discomfort.

- **Sleep Operation**

  The SLEEP function is used to decrease energy use while you sleep (less cooling or heating is required during the bodies sleep cycle).

  Press the **SLEEP** button on the remote control when in COOL mode. The unit will increase the temperature by 1°C (2°F) after the first hour. It will increase an additional 1°C (2°F) after another hour. The fan speed is automatically adjusted to LOW .
  When in HEAT mode, the SLEEP function will decrease the temperature by 1°C (2°F) after the first hour. It will decrease the temperature by an additional 1°C (2°F) after another hour. The fan speed is automatically adjusted to LOW .
  Then the air conditioner will operate at the new temperature for another six hours. After that, the SLEEP function will stop, the fan speed will revert back to the original setting.

SLEEP Operation

Cool mode(+1°C/2°F) per hour for the first two hours

| Set temperature | → | 1hr | → | 1hr | → | Keep running |

Heat mode(-1 C/2 F) per hour for the first two hours

Saving energy during sleep

Setting Angle of Air Flow

**NOTE : SETTING THE ANGLE OF AIR-FLOW(REMOTE CONTROL)**

While the unit is on, use the SWING button on the remote control to set the direction (vertical/horizontal angle) of airflow. Please refer to the section Remote Control operation for more details.

NOTE ON LOUVER ANGLES

- Do not set louver at too vertical an angle for long periods of time when using COOL or DRY mode. Condensation will form on the louver blade, which will drip on the floor or furnishings.

- Setting the louver at too small an angle when using COOL or HEAT mode, can reduce the performance of the AC due to restricted air flow.
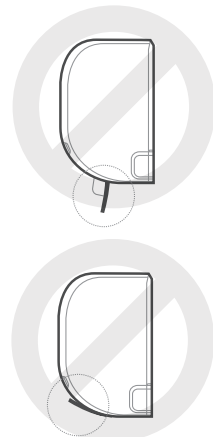
- According to the relative standards requirement, please sets the vertical air flow louver to its maximum angle during the heating capacity test.

Heating Capacity Test
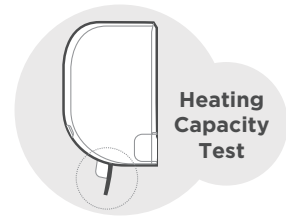
💡 NOTE

Do not move louver by hand. This will cause the louver to become out of sync. If this occurs, turn off the unit and unplug it for a few seconds, then restart the unit. This will reset the louver.

⚠ CAUTION

Do not put your fingers in or near the blower and suction side of the unit. The high-speed fan inside the unit may cause injury.

Manual Operation(without remote)

⚠ CAUTION : FOR PRODUCT USE

The manual button is intended for testing purposes and 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 manua operation.

To operate the unit manually:

- Open the front panel of the indoor unit.
- Locate the **MANUAL CONTROL button** on the right-hand side of the unit.
- Press the **MANUAL CONTROL button** once to activate FORCED AUTO mode.
- Press the **MANUAL CONTROL button** a second time to activate FORCED COOLING mode.
- Press the **MANUAL CONTROL button** a third time to turn the unit off.
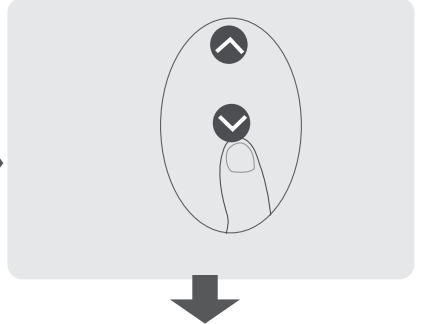- Close the front panel.

Manual control button
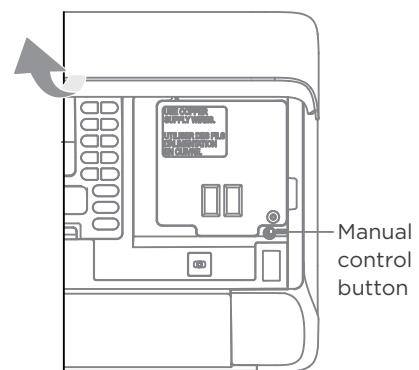
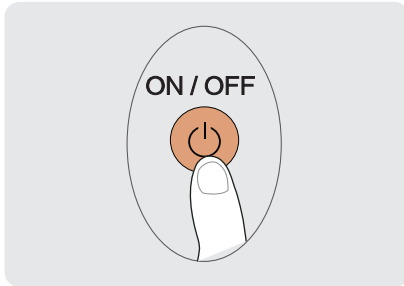# Remote Control Operation

Quick Start Guide

1 FIT BATTERIES

2 SELECT MODE

AUTO
COOL
DRY
HEAT
FAN
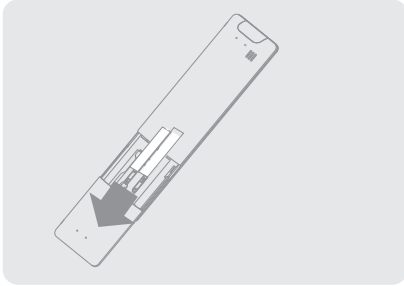
Mode
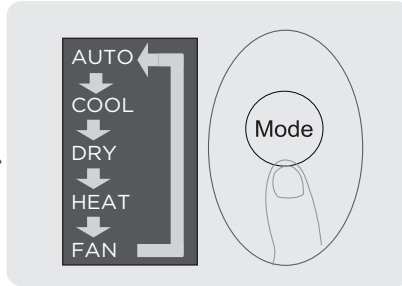
3 SELECT TEMPERATURE

6 PRESS POWER BUTTON

ON / OFF

5 POINT REMOTE TOWARD UNIT

4 SELECT FAN SPEED

AU-100%
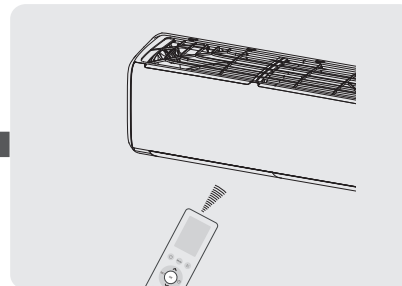
FUNCTION EXPLANATION

Refer to the How to Use Basic Functions and How to Use Advanced Functions sections of this manual for a more 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

Your air conditioning unit may come with two batteries(not all units). 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.
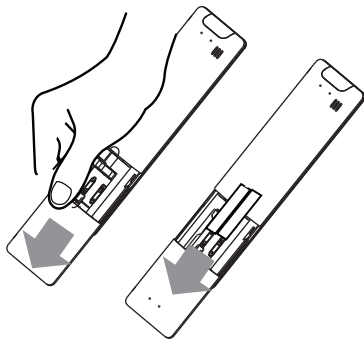
💡 BATTERY NOTES

For optimal product performance:
• Do not mix old and new batteries or different brands of batteries.
• Do not leave batteries in the remote control if you don't plan on using the device for more than 2 months.

💡 BATTERY DISPOSAL

Do not dispose of batteries in normal household 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 the 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 a long time.

NOTES FOR USING REMOTE CONTROL

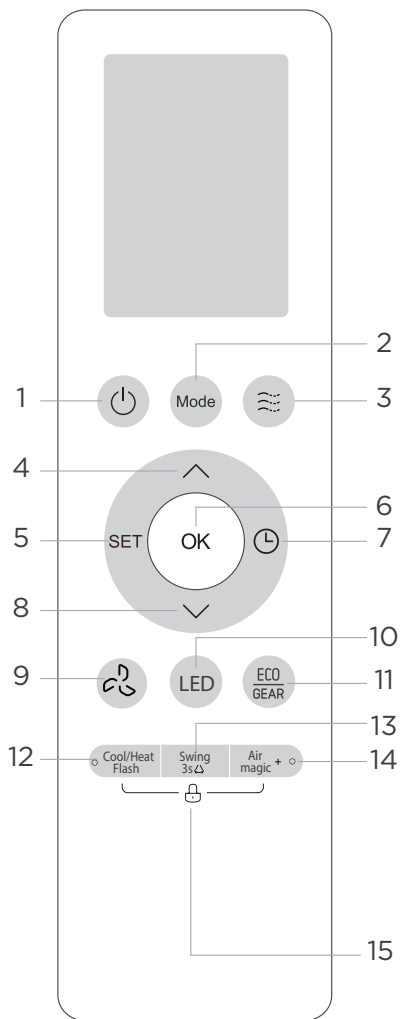The device could comply with the local national regulations.
• In Canada, it should comply with CAN ICES-3(B)/NMB-3(B).
• In USA, this device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
  (1) This device may not cause harmful interference, and
 (2) this device must accept any interference received, including interference that may cause undesired operation.

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.
• Changes or modifications not approved by the party responsible for compliance could void user's authority to operate the equipment.

Buttons and Functions

Model A

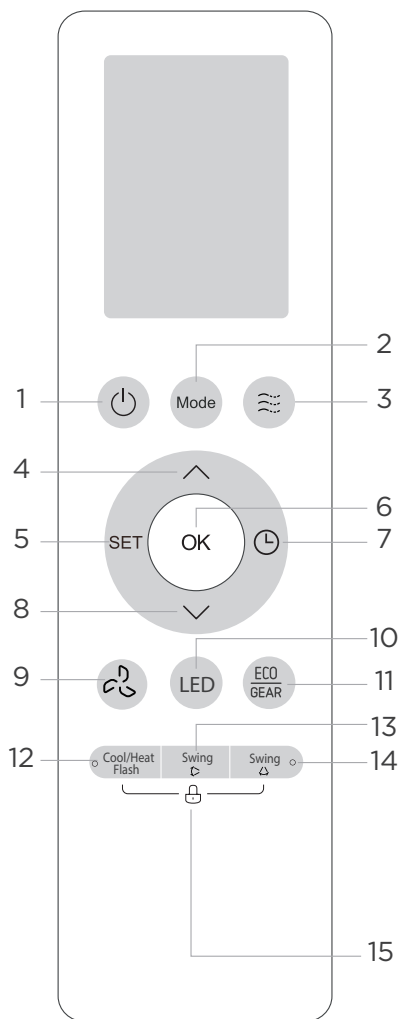| Description		
No.1	⏻	**ON/OFF** Turn the unit on or off.
No.2	Mode	**MODE** Auto > Cool > Dry > Heat > Fan **NOTE:** HEAT mode is not supported by the cooling only appliance.
No.3	≋	**BREEZE** Breezeless > Breeze away > Breeze mild>Stop
No.4	⌃	**TEMP.** Increases temperature in 0.5°C (1°F) increments. Max. temperature is 30°C (86°F). (Press together ⌃ & ⌄ buttons at the same time for 3 seconds will alternate the temperature display between the °C & °F).
No.5	SET	**SET** Active clean>Sleep > Follow Me > AP mode > Active clean
No.6	OK	**OK** Used to confirm the selected functions
No.7	🕐	**TIMER** Set timer to turn unit on or off
No.8	⌄	**TEMP.** Decreases temperature in 0.5°C (1°F) increments. Min. temperature is 16°C (60°F)
No.9	🌀	**FAN SPEED** AU > 20% > 40% >60% > 80% > 100% Press the TEMP ⌃ or ⌄ button to increase/ decrease the fan speed in 1% increments.
No.10	LED	**LED** Turns LED display & air conditioner buzzer on and off
No.11	ECO/GEAR	**ECO/GEAR** ECO > GEAR(75%) > GEAR(50%) > Previous setting mode > ECO
No.12	Cool/Heat Flash	**Cool/Heat Flash** Reduce(cool mode) or rise(heat mode) temperature in a short time.
No.13	Swing 3s	**SWING** Starts and stops the horizontal louver movement. Hold down for 3 seconds to initiate vertical louver auto swing feature(some units).
No.14	Air magic +	**Air magic+** Used to start/stop the Air magic and UV-C lamp (if any) function.
No.15	Cool/Heat Flash Air magic +	**LOCK** Press together these two buttons simultaneously for 5 seconds to lock the keyboard. Press together these two buttons for 2 seconds to unlock the keyboard.

Buttons and Functions

Model B

Description		
No.1	⏻	**ON/OFF** Turn the unit on or off.
No.2	Mode	**MODE** Auto > Cool > Dry > Heat > Fan **NOTE:** HEAT mode is not supported by the cooling only appliance.
No.3	≈	**BREEZE** Breezeless > Breeze away > Breeze mild>Stop
No.4	∧	**TEMP.** Increases temperature in 0.5°C (1°F) increments. Max. temperature is 30°C (86°F). (Press together ∧ & ∨ buttons at the same time for 3 seconds will alternate the temperature display between the °C & °F).
No.5	SET	**SET** Active clean > Sleep > Follow Me > AP mode* > Active clean **[*]:** Model dependent
No.6	OK	**OK** Used to confirm the selected functions
No.7	🕐	**TIMER** Set timer to turn unit on or off
No.8	∨	**TEMP.** Decreases temperature in 0.5°C (1°F) increments. Min. temperature is 16°C (60°F)
No.9	🌀	**FAN SPEED** AU > 20% >40% >60% > 80% > 100% Press the TEMP ∧ or ∨ button to increase/ decrease the fan speed in 1% increments.
No.10	LED	**LED** Turns LED display & air conditioner buzzer on and off
No.11	ECO GEAR	**ECO/GEAR** ECO > GEAR(75%) > GEAR(50%) > Previous setting mode > ECO
No.12	Cool/Heat Flash	**Cool/Heat Flash** Reduce(cool mode) or rise(heat mode) temperature in a short time.
No.13	Swing ▷	**SWING(up and down)** Starts and stops the horizontal louver movement. Hold down for 2 seconds to initiate horizontal louver auto swing feature(some units).
No.14	Swing △	**SWING(left and right)** Starts and stops the vertical louver movement.
No.15	Cool/Heat Flash 🔒 Swing △	**LOCK** Press together these two buttons simultaneously for 5 seconds to lock the keyboard. Press together these two buttons for 2 seconds to unlock the keyboard.

Buttons and Functions

Model C

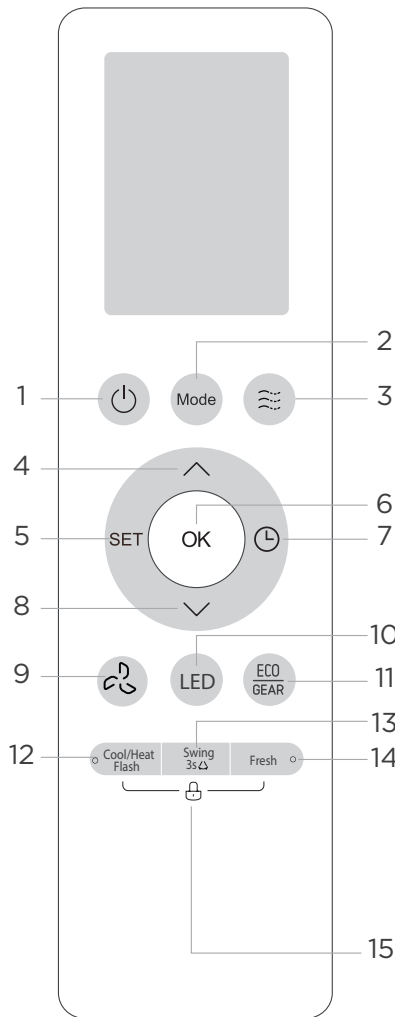| Description		
No.1	⏻	**ON/OFF** Turn the unit on or off.
No.2	Mode	**MODE** Auto > Cool > Dry > Heat > Fan **NOTE:** HEAT mode is not supported by the cooling only appliance.
No.3	≋	**BREEZE** Breezeless > Breeze away > Breeze mild>Stop
No.4	∧	**TEMP.** Increases temperature in 0.5°C (1°F) increments. Max. temperature is 30°C (86°F). (Press together ∧ & ∨ buttons at the same time for 3 seconds will alternate the temperature display between the °C & °F).
No.5	SET	**SET** Active clean >Sleep > Follow Me > AP mode* > Active clean **[*]:** Model dependent
No.6	OK	**OK** Used to confirm the selected functions
No.7	🕒	**TIMER** Set timer to turn unit on or off
No.8	∨	**TEMP.** Decreases temperature in 0.5°C (1°F) increments. Min. temperature is 16°C (60°F)
No.9	🌀	**FAN SPEED** AU > 20% >40% > 60% > 80% > 100% Press the TEMP ∧ or ∨ button to increase/ decrease the fan speed in 1% increments.
No.10	LED	**LED** Turns LED display & air conditioner buzzer on and off
No.11	ECO GEAR	**ECO/GEAR** ECO > GEAR(75%) > GEAR(50%) > Previous setting mode > ECO
No.12	Cool/Heat Flash	**Cool/Heat Flash** Reduce(cool mode) or rise(heat mode) temperature in a short time.
No.13	Swing 3s△	**SWING** Starts and stops the horizontal louver movement. Hold down for 3 seconds to initiate vertical louver auto swing feature(some units).
No.14	Fresh	**FRESH** Starts and stops the UV-C lamp function.
No.15	Cool/Heat Flash 🔒 Fresh	**LOCK** Press together these two buttons simultaneously for 5 seconds to lock the keyboard. Press together these two buttons for 2 seconds to unlock the keyboard.

Remote Control Screen Indicators

Information displayed when the remote controller is powered up.

Wind flow follow people*	Breeze Away	Breeze mild	Breezeless	Intelligent eye *	Low battery (If flashes)

[*]: Not available for this unit.

Active clean	Not available for this unit.	Sleep mode	Follow me	Air magic+ mode *	Wireless control *

[*]: Model dependent

MODE display Displays the current mode

AUTO	COOL	DRY	HEAT	FAN

Transmission Indicator	ECO Feature	GEAR Feature	Timer ON	Timer OFF	Lock Feature	Slience Feature

Temperature/Timer/Fan speed display

Displays the set temperature by default, or fan speed or timer setting when using TIMER ON/OFF functions.

FAN SPEED

AUTO	SLIENCE		LOW	MED	HIGH	
	1%	2-20%	21-40%	41-60%	61-80%	81-100%

NOTE: The fan speed can not be adjusted in AUTO or DRY mode.

Not available for this unit

Horizontal louver swing

Cool/Heat Flash mode

Vertical louver auto swing

Not available for this unit

NOTE
1. All indicators shown above are for information purposes. During the actual operation, only the relevant indicators will be shown on the display.
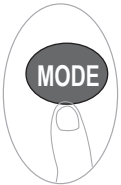
How to Use Basic Functions

💡 **NOTE**

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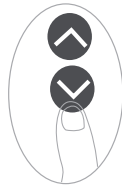
NOTE:
1. In AUTO mode, the unit will automatically select the COOL, FAN, or HEAT function based on the selected temperature.
2. In AUTO mode, fan speed cannot be set.

COOL or HEAT Mode

Select COOL/HEAT mode | Set the temperature | Set the fan speed | Turn on the air conditioner
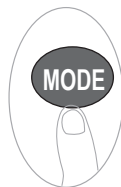
DRY Mode

Select DRY mode | Set your desired temperature | Turn on the air conditioner

NOTE: In DRY mode, fan speed cannot 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 is displayed on the remote's 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 time ON sequence.

Press Temp. up or down buttons to set the length of time after which you would like the unit to turn ON. Wait for 1 second to activate time to turn on the unit.
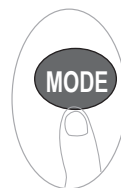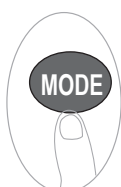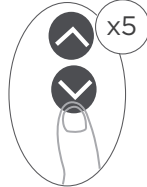

TIMER OFF setting

Press TIMER button to initiate the time OFF sequence.
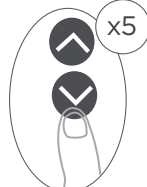
Press Temp. up or down buttons to set the length of time after which you would like the unit to turn OFF. Wait for 1 second to activate time to turn off the unit.

NOTE:
1. When setting the TIMER ON or TIMER OFF, the time will increase in 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 the 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.

Timer starts	Unit turns ON	Unit turns OFF

Current time 1PM | 2:00PM | 3:00PM | 3:30PM | 4PM | 5PM | 6PM

2.5 hours late

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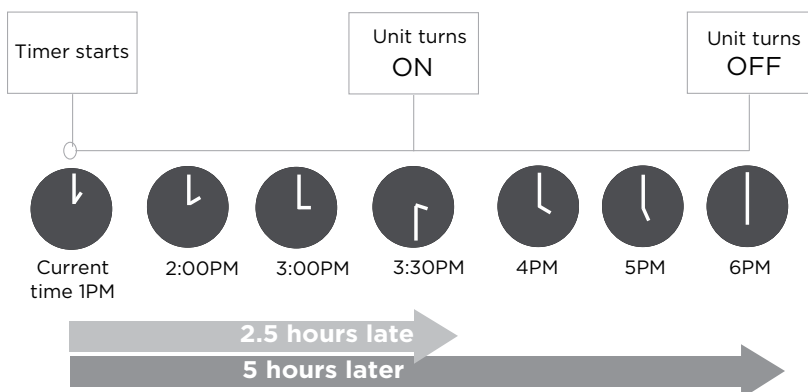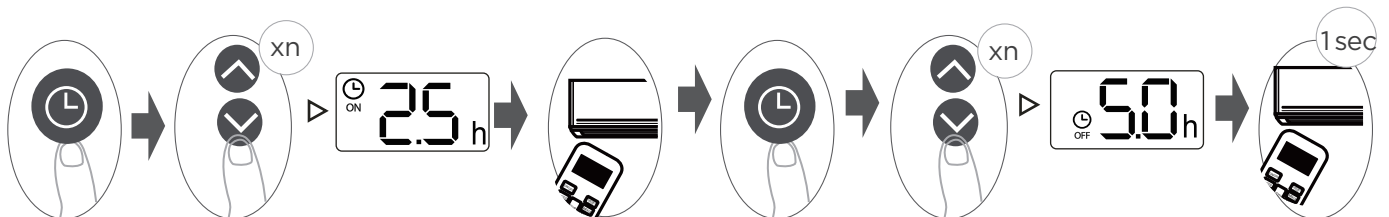
Example: If current timer is 1:00PM, to set the timer as above steps, the unit will turn on 2.5h later (3:30PM) and turn off at 6:00PM.

How to Use Advanced Functions

Press Swing button

Set airflow direction

3s
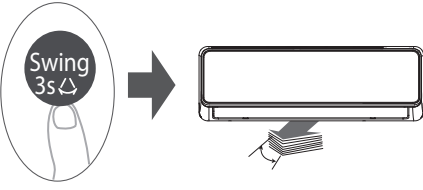
The horizontal louver will swing up and down automatically when pressing Swing button.
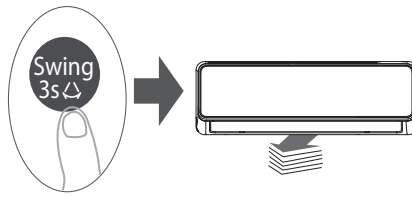
If you repeatedly press the SWING button, five different airflow directions can be set. The louver will move incrementally each time you press the button. Press the button until the direction you prefer is reached.
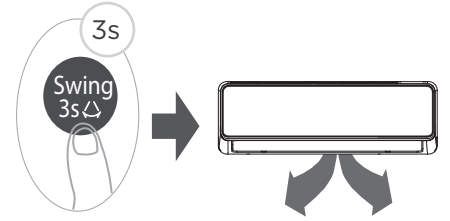
Keep the button depressed for more than 3 seconds to activate the vertical louver swing function. (Model dependent)

Press Swing button

Set airflow direction
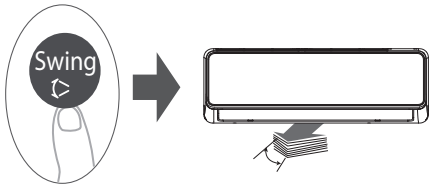
The horizontal louver will swing up and down automatically when pressing the Swing button.
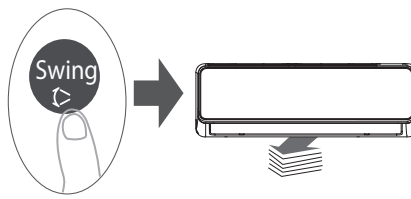
If you repeatedly press the SWING button, five different airflow directions can be set. The louver will move incrementally each time you press the button. Press the button until the direction you prefer is reached.
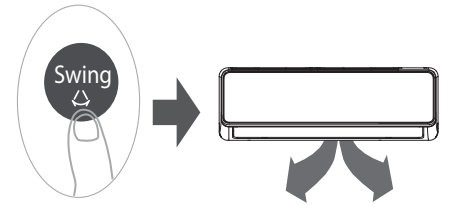
Press this button , the vertical louver swing function is activated.

LED DISPLAY

Press this button to turn on and turn off the display on the indoor unit.

5s

Press this button more than 5 seconds(some units)

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

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Cool/Heat Flash Function

Press this button
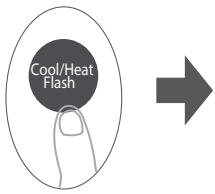
When you press this button in COOL mode, the Cool Flash function will start. The unit will produce a large volume of air and high airflow, the temperature of the whole room will be reduced in a short time.

When you press this button in HEAT mode, the Heat Flash function will start. Fast and strong hot airflow will warm up your whole room in a short time.

ECO/GEAR Function

Press this button to enter into one of the following energy efficiency modes:

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

Note:This function is only available under COOL mode.

ECO Operation:

If used during cooling mode, pressing this button will adjust the temperature automatically to 24°C/75°F and place the fan speed on Auto to save energy. If the set temperature is higher, it will remain at that setting.

NOTE: Pressing the ECO button again, 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 may not be lower than 24°C/75°F. This may result in insufficient cooling. Press the ECO button again to return to normal operation.

GEAR operation:

Press the ECO/GEAR button to enter into GEAR operation as following:
75%(up to 75% electrical energy consumption)→ 50%(up to 50% electrical energy consumption)→ Previous setting mode.

Under GEAR mode, the display on the remote controller will alternate between electical energy consumption and set temperature.

Silent Function
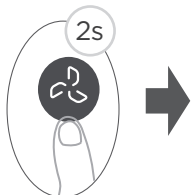
Keep pressing Fan button for more than 2 seconds to activate/disable Silent function.

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

FP function
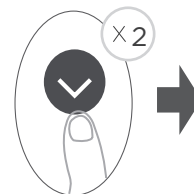
Press this button twice rapidly during HEAT Mode and setting temperature of 16°C/60°F to activate the FP function.

The unit will operate at high fan speed (while the compressor is on) with temperature will automatically be set to 8°C/46°F.
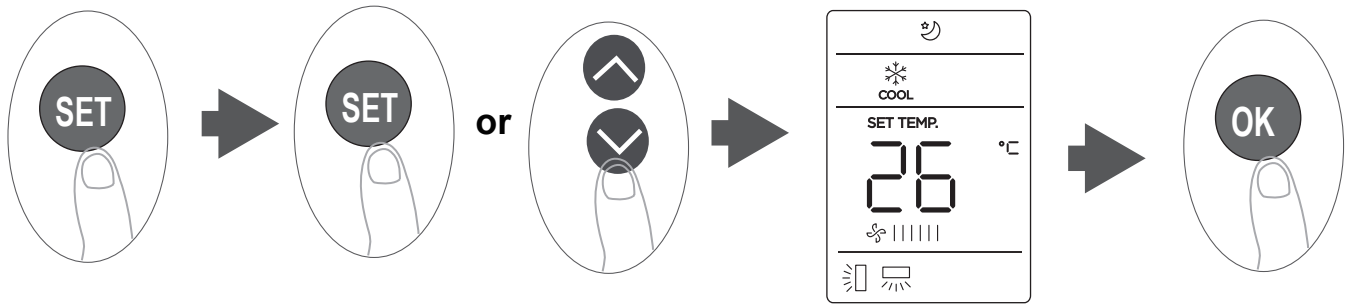
- Press the SET button to change the function, press the SET button again or TEMP ∨ or TEMP ∧ button to select the desired function. The selected symbol will flash on the display area, press the OK button to confirm.
- To cancel the selected function, just perform the same procedures as above.
- Press the SET button to scroll through operation functions as follows:

  Active clean(❄) → Sleep(☾) → Follow Me(👤) → AP mode*(📶)

Active Clean Function

The Active Clean technology removes dust and mold that may cause odors. Active Clean rapidly freezes and thaws the heat exchanger, to clean away material that has adhered to it. When this function is turned on, the indoor unit displays "CL". After 20 to 130 minutes, the unit will turn off automatically and terminate CLEAN function.

Sleep Function(☾) :

The SLEEP function is used to decrease energy use while you sleep(and don't need the same temperature settings to stay comfortable).

NOTE: The SLEEP function is not available in FAN and DRY mode.

AP Function(📶)(some units) :

Use the SET button to choose AP(Access Point) mode to enable wireless configuration. If this function is not available on this unit, it might be possible to enter AP mode by pressing the LED button 7 times in 10 seconds.

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 minute intervals. 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 Cool/Heat Flash button for 7 seconds to start/stop the memory feature of the Follow Me function.

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

Wireless Control Feature

Applicable system: iOS, Android

- Please keep your app up to date with the latest version.
- Not all of Android and iOS systems are compatible with the app. We declare explicitly that we will not be held responsible for any issue as a result of the incompatibility.

Wireless safety strategy

- Smart Kit only supports WPA-PSK/WPA2-PSK encryption and no encryption. WPA-PSK/WPA2-PSK encryption is recommended.

CAUTIONS:

- Network issues may occasionally cause timeouts. The unit display and the app may become unsynchronised but this will resolve itself when the network is restored.
- Smart phone cameras need to be 5 megapixels or above to scan the QR code correctly.
- Should the network remain unavailable, it might be necessary to run the configuration process again.
- The app is subject to updates without prior notice for product function improvement.
- The actual network configuration process may vary slightly from the manual.
- Please check the service website for more information.

SPECIFICATION:

- APP Control Module Model: EU-SK110, US-SK110
- Antenna Type: Printed PCB Antenna
- Frequency Band: 2400-2483.5MHz
- Operation Temperature:0℃~45℃/32℉~113℉
- Operation Humidity: 10%~85%
- Power Input: DC 5V/500mA
- Maximum TX Power: <20dBm

PREPARATION

- Please ensure your mobile device is connected to your wireless router. The wireless router should already be connected to the Internet before doing user registration and network configuration.
- Preferably remove unneeded wireless networks on your phone to avoid problems during the configuration process.

Download and install app

1. Ensure your mobile phone is connected to your home network.
2. Scan the QR code with your device or search for the MSmartHome app from the Google Play Store or Apple App Store.

MSmartHome

Download on the App Store

GET IT ON Google Play

Download the app & activate product

Network configuration

CAUTION:

- As mentioned above, remove or "forget" other unneeded Wi-Fi networks especially if nearby. Your device should be connected to the same network you will be connecting the unit to.
- As your phone will temporarily connect to the air conditioner, your phone must be set to automatically reconnect to your wireless network when the process is complete.

Kindly reminder:

- All the steps for network configuration must be completed within 8 minutes after powering on the air conditioner, otherwise you will need to power it off and on again.

NOTE:

- Make sure your devices are powered on.
- Keep your mobile phone close enough to the unit when you are configuring the network to the unit.
- Connect your mobile phone to the wireless network at home and make sure you know the
- password of the network.
- Check if your router supports the 2.4 GHz wireless band and that it is turned on. If you are not sure whether the router supports the 2.4 GHz band, please contact the router manufacturer.
- The device cannot connect to the wireless that requires authentication. Typically the wireless network in public areas such as hotels, restaurants, etc. work in this way. Please connect to a wireless network that does not require authentication.
- It is recommended to use a wireless network name that only contains letters and numbers and not special characters.
- If your wireless network name contains special characters, please change it on your router. Your phone and other devices will then need to reconfigure their wireless connection.
- Turn off the WLAN+ (Android) or WLAN Assistant (iOS) function of your mobile phone when configuring the unit.
- In the case that your device connected to wireless network before but it needs to reconnect, please click "+" on app Home page, and add your device again by the device category and model according to the instructions on app.

Register and log in

Open the MSmart home app. If you have an existing account, use this to login or create a new account.
It is also possible to use a third party platform to login but with limited features.

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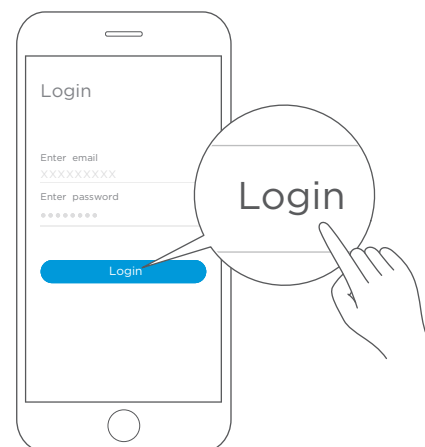
Connect your devices to MSmartHome

1. Please make sure your mobile phone is connected to your wireless network and that Bluetooth is on. If that is not the case, go to your phone settings and turn them on.
2. Please power on the devices you wish to connect to.
3. Open MSmartHome app on your phone.
4. If the message "Smart devices discovered nearby" appears, click on this to add the automatically discovered devices..
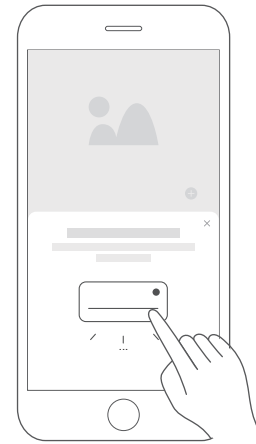
5. If no message appears, select "+" and select your device from the list of nearby devices available.
   If your device is not listed, please add your device manually selecting the device category [Air Conditioner] and the device model [Split AC].
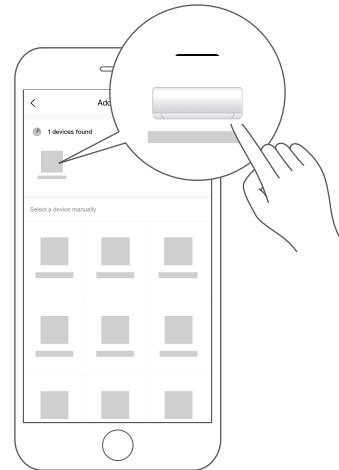
6. Connect your device to app by following the instructions. If the connection fails, please follow the instructions provided by the app to continue with the process.
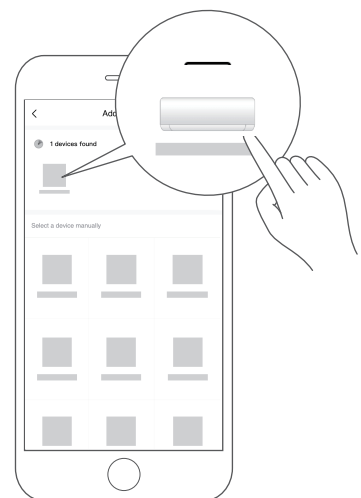
How to use APP

Please ensure both your mobile device and air conditioner are connected to the Internet before using the app to control the air conditioner.Once ready, please follow these steps:
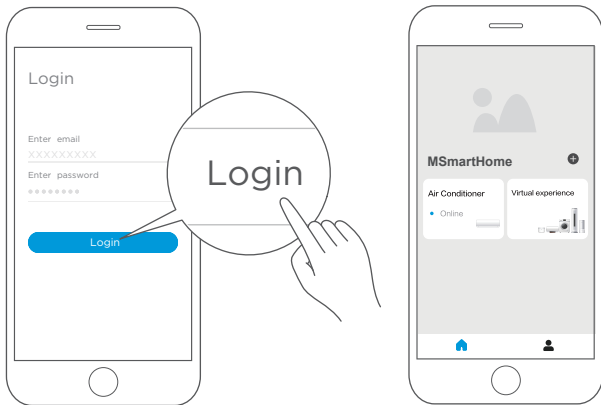
1. Click "Login"

2. Choose the Air Conditioner.

NOTE:
Not all the functions of the app are available for all air conditioners. For example: ECO, Boost, Swing function. Please check the user manual for more information.
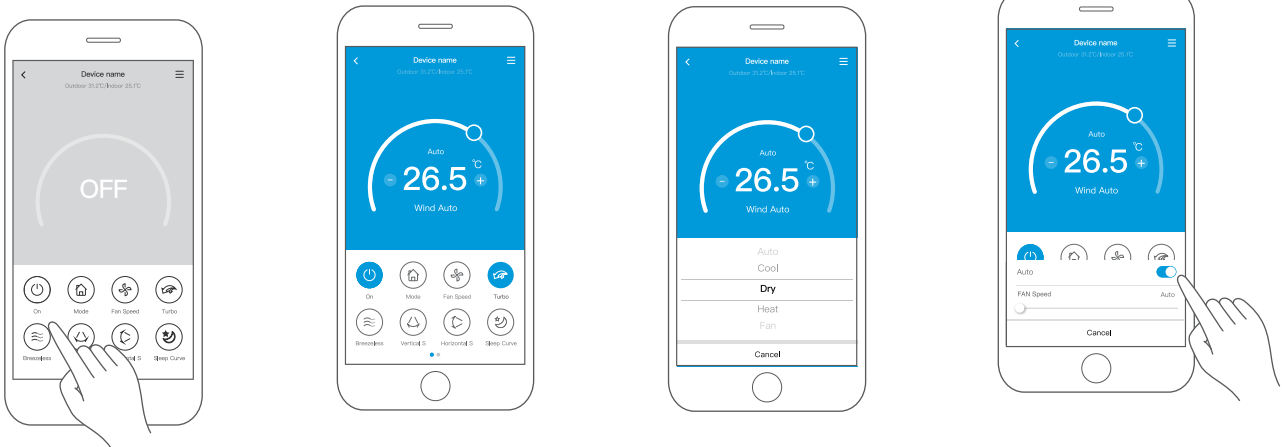
3. Using the app, it is now possible to control the air conditioners on/off status, operation mode, temperature, fan speed and so on.

Special functions

Schedule, Sleep curve, Energy Monitor,Bill Control and Check.
NOTE: Some special functions on the app may not be applicable to all the unit. If the air conditioner does not support a function, it will not appear on the function list.
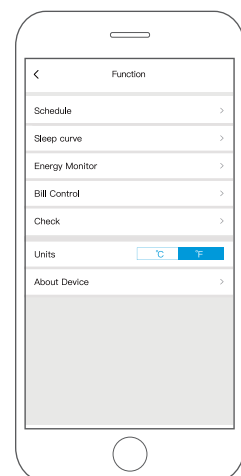
Schedule

Users are able to turn their air conditioner on or off at a specified time. The schedule can be further automated by choosing which days to repeat the schedule.
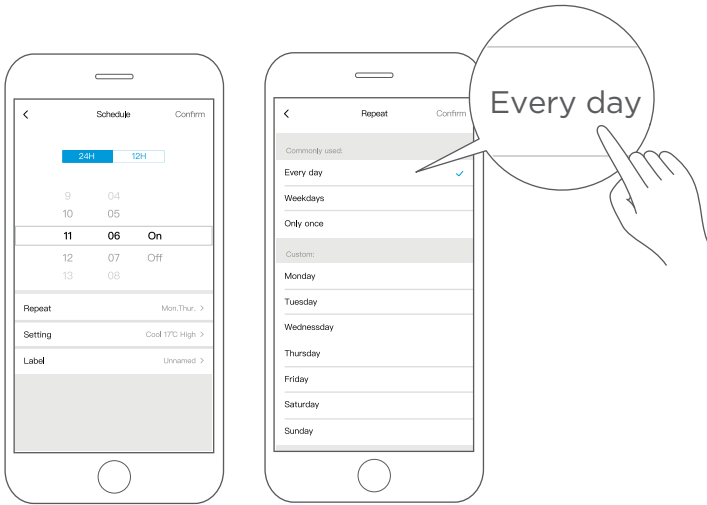
Sleep

The sleep function both saves energy by cooling or heating less as well as aiding sleep by following the body's typical change in temperature during sleep.

Every day
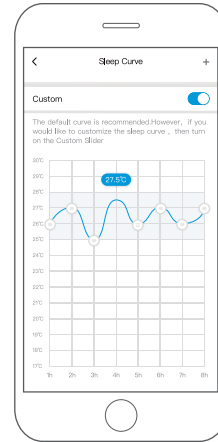
Energy Monitor(Only for some units)

Users can simply monitor the electricity consumption of their air conditioner by checking the chart and history records.
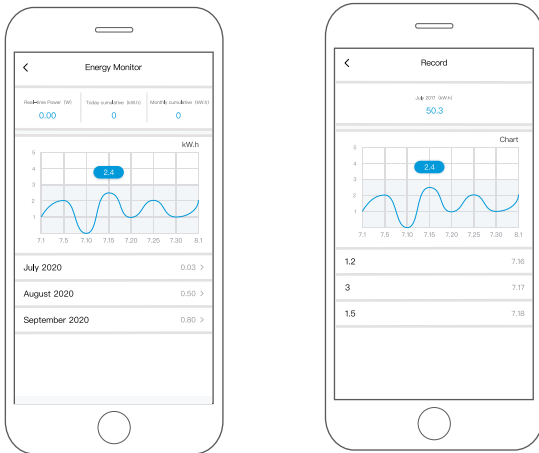
Bill Control(Not all units)

User can set parameters to limit the electricity consumption over a specific time period.
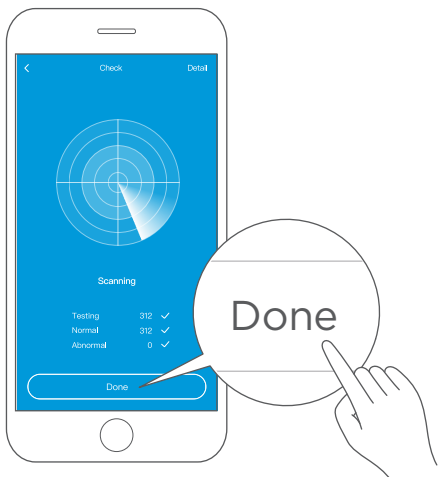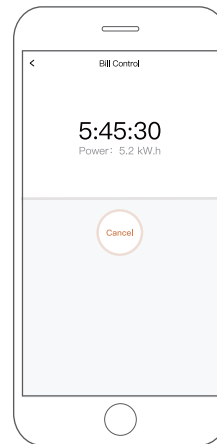
Check

User can also check the air conditioner running status with this function. Normal events, exceptional events and detailed level information can be viewed here.

Done

APP DECLARATION

Hereby, we declare that this Smart kit is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. A copy of the full DoC is attached.
(European Union products only)

CAUTIONS:

Wireless module models: US-SK110,EU-SK110:
FCC ID: 2ADQOMDNA23
IC: 12575A-MDNA23

This device complies with Part 15 of the FCC Rules and it contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

1. This device may not cause interference; and
2. This device must accept any interference, including interference that may cause
    undesired operation of the device.

Only operate the device in accordance with the instructions supplied. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with FCC
radiation exposure limits set forth for an uncontrolled environment. In order to avoid
the possibility of exceeding the FCC radio frequency exposure limits, human proximity to
the antenna shall not be less than 20cm (8 inches) during normal operation.

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.

CARE AND MAINTENANCE

> **⚠ CAUTION**
>
> - A clogged AC may reduce the efficiency of your unit or possibly impact your health. Make sure to clean the filter every two weeks.
> - Always **TURN OFF** your AC system and disconnect its power supply before cleaning or maintenance.
> - **Do not** touch air freshening (Plasma) filter at least 10 minutes after turning off the unit.
> - Only use a soft, dry cloth to wipe the unit clean. You can use a cloth soaked in warm water to wipe it clean if the unit is especially dirty.
> - 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 (104°F) to clean the front panel. This can cause the panel to deform or become discolored.

Cleaning Your Indoor Unit, Air Filter

Grab the clasp and lift
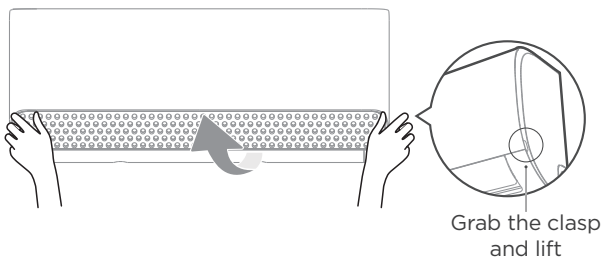
Step 1:

Lift the front panel of the indoor unit.

Filter Tabs
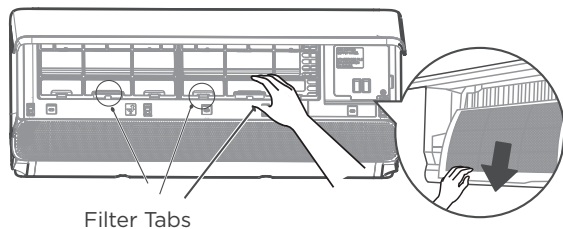
Step 2:

Grip the tab on the end of the filter, lift it up, then pull it towards yourself and pull the filter out.

(Front)　　(Back)

1. Flip to back
2. Remove air freshening filter off (some units)
3. Clean it by vacuum cleaner
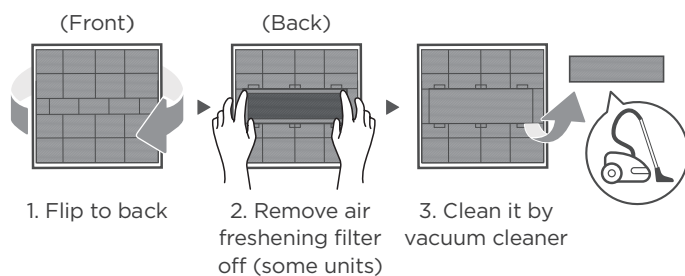
Step 3:

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.

Don't forget to install me back
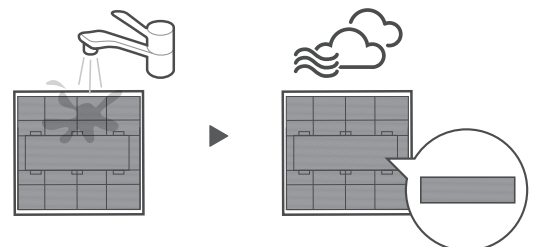
Step 4:

Clean the large air filter with warm, soapy water. Be sure to use a mild detergent. Rinse the filter with fresh water, then shake off excess water. Dry it in a cool, dry place and refrain from exposing it to direct sunlight.

Step 5:

When dry, re-clip the air freshening filter to the larger filter, then slide it back into the indoor unit. Finally, close the front panel of the indoor unit.

⚠ CAUTION

- Before changing the filter or cleaning, turn off the unit and disconnect its power supply.
- When removing the filter, do not touch metal parts in the unit. The sharp metal edges can cut you.
- Do not use water to clean the inside of the indoor unit. This can destroy insulation and cause electrical shock.
- Do not expose the filter to direct sunlight when drying. This can shrink the filter.
- Any repair, maintenance or cleaning of the outdoor unit should be performed by an authorized dealer or a licensed service provider.

Air Filter Reminders (Optional)

Display window: "CL"

Air Filter Cleaning Reminder
- After 240 hours of use, the display window on the indoor unit will flash "CL." This is a reminder to clean your filter. After 15 seconds, the unit will revert to its previous display.
- To reset the reminder, press the LED button on your remote control 4 times, or press the MANUAL CONTROL button 3 times. If you don't reset the reminder, the "CL" indicator will flash again when you restart the unit.

Display window: "nF"

Air Filter Replacement Reminder
- After 2,880 hours of use, the display window on the indoor unit will flash "nF." This is a reminder to replace your filter. After 15 seconds, the unit will revert to its previous display.
- To reset the reminder, press the LED button on your remote control 4 times, or press the MANUAL CONTROL button 3 times. If you don't reset the reminder, the "nF" indicator will flash again when you restart the unit.

Maintenance of your air conditioner

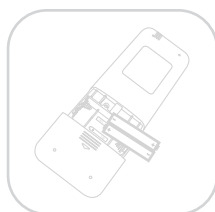| Maintenance – Long Periods of Non-Use	Maintenance – Pre-Season Inspection
If you plan not to use your air conditioner for an extended period of time, do the following:	After long periods of non-use, or before periods of frequent use, do the following:

Clean all filters

Turn on FAN function until unit dries out completely

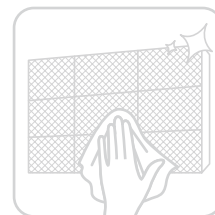Turn the unit off and disconnect the power

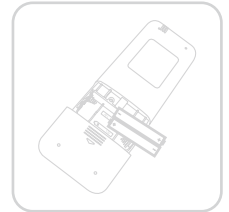Remove batteries from remote control
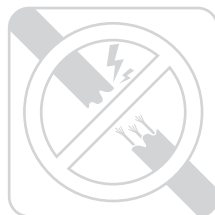
Check for damaged wires

Clean all filters

Check for leaks

Make sure nothing is blocking all air inlets and outlets

Replace batteries

TROUBLESHOOTING

> ⚠️ **CAUTION**
>
> 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
> • The unit comes into contact with water or emits water
> **DO NOT ATTEMPT TO FIX THESE PROBLEMS YOURSELF! CONTACT AN AUTHORIZED SERVICE PROVIDER IMMEDIATELY**.

Common Issues

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

Issue	Possible Causes
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. Once the set temperature has been reached, the unit will automatically turn the compressor off. The compressor will resume 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 some occasional noise	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	The unit emits a low hissing sound during operation: This is normal and is caused by refrigerant gas flowing through both indoor and outdoor units.
	The unit emits a 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.
	The unit emits a squeaking sound: Normal expansion and contraction of plastic and metal parts caused by temperature changes during operation can cause squeaking noises.

Issue	Possible Causes
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, then reconnect. • Press ON/OFF button on remote control to restart operation.

NOTE: If problem persists, contact a local dealer or your nearest customer service center. Provide them with a detailed description of the unit malfunction as well as your model number.

> ⚠ **CAUTION**
> If problems occur, please check the following points before contacting a repair company.

Problem	Possible Causes	Solution
Poor Cooling Performance	Temperature setting may be higher than ambient room temperature	Lower the temperature setting
	The heat exchanger on the indoor or outdoor unit is dirty	Clean the affected heat exchanger
	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
	Too many sources of heat in the room (people, computers, electronics, etc.)	Reduce amount of heat sources
	SILENT function is activated (optional function)	SILENTfunction can lower product performance by reducing operating frequency. Turn off SILENT function.

Problem	Possible Causes	Solution
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 before restarting the unit
	Timer is activated	Turn timer off
The unit starts and stops frequently	There's too much or too little refrigerant in the system	Contact an authorized service center
	Incompressible gas or moisture has entered the system.	
	The compressor is broken	
	The voltage is too high or too low	
Poor heating performance	The outdoor temperature is extremely low	Use auxiliary heating device
	Cold air is entering through doors and windows	Make sure that all doors and windows are closed during use
	Low refrigerant due to leak or long-term use	Contact an authorized service center
Indicator lamps continue flashing		
For any of the following error codes, do as instructed here: • 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 nearest customer service center.	

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

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All the described functions and instructions were up to date at the time of printing this manual. However, the actual product may vary due to improved functions and designs.

DISPOSAL AND RECYCLING

Important instructions for environment(European Disposal Guidelines)

Compliance with the WEEE Directive and Disposing of the Waster Product:
This product complies with EU WEEE Directive (2012/19/EU). This product bears a classification symbol for waster electrical and electronic equipment (WEEE).

This symbol indicates that this product shall not be disposed with other household wastes at the end of its service life. Used device must be returned to official collection point for recycling of electrical electronic devices. To find these collection systems please contact to your local authorities or retailer where the product was purchased. Each household performs important role in recovering and recycling of old appliance. Appropriate disposal of used appliance helps prevent potential negative consequences for the environment and human health.
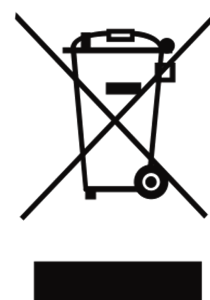
DATA PROTECTION NOTICE

For the provision of the services agreed with the customer,
we agree to comply without restriction with all stipulations of applicable data
protection law, in line with agreed countries within which services to the customer
will be delivered, as well as, where applicable, the EU General Data Protection
Regulation (GDPR).

Generally, our data processing is to fulfil our obligation under contract with you and
for product safety reasons, to safeguard your rights in connection with warranty
and product registration questions. In some cases, but only if appropriate data
protection is ensured, personal data might be transferred to recipients located
outside of the European Economic Area.

Further information are provided on request. You can contact our Data Protection
Officer via **MideaDPO@midea.com**. To exercise your rights such as right to object
your personal date being processed for direct marketing purposes, please contact
us via **MideaDPO@midea.com**. To find further information, please follow the QR
Code.

The design and specifications are subject to change without prior notice for
product improvement. Consult with the sales agency or manufacturer for details.
Any updates to the manual will be uploaded to the service website, please check
for the latest version.

Manufacturer: GD Midea Air-Conditioning Equipment Co,.Ltd.
Lingang Road Beijiao Shunde Foshan Guangdong
People's Republic of China 528311

Midea

make yourself at home

CS021UI-CB(OBM)

16122000011074

2022.11.18

备注说明：

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2. 基准说明书封面设计了型号，按制单要求，以XXXXX形式体现，说明书内页SPECIFICATION参数表格中的信息也是以XXXXX形式体现，内页遥控器部分只是基准遥控器内容，APP内容为国际美居APP内容。说明书中最后倒数第三页开始的内容：TRADEMARKS, COPYRIGHTS AND LEGAL STATEMENT，DATA PROTECTION NOTICE以及制造商信息都为基准。需要业务和制单工程师根据客户实际信息以及认证进行更改替换。

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说明书技术条件：（此页无需印刷）

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