Split Type Wall Mounted Air Conditioner



CM-Smart Premium Voice

OPERATION AND MAINTENANCE

SERVICE AND INSTALLATION

As a result of the continuous development of its products, the manufacturer reserves the right to make changes to the products and to the technical documentation of the devices.

Please read this manual carefully before putting the device into operation.
This operating manual should be kept throughout the entire period of use of the device so that it can be consulted at any time.

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Note:
All illustrations in this manual are for reference purposes only. The actual appearance of the air conditioner may differ slightly. Illustrations may be changed without prior notice as part of future improvements.

Warning

Note: FCC and IC statements apply only to models with the Wi-Fi function.

FCC WARNING

FCC Warning: Any changes or modifications to this device not expressly approved by the party responsible for compliance may void the user's authority to operate this equipment.

FCC STATEMENT

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.
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 may 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 the receiver.**
- **Connect the equipment to 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.**

IC STATEMENT

This device complies with Industry Canada licence-exempt RSS standards.
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.

IC STATEMENT

This device complies with the FCC and IC RF exposure limits for an uncontrolled environment. The antenna(s) used for this transmitter must be installed and operated so as to provide a separation distance of at least 20 cm (7.87 inches) from all persons and must not be co-located or operated in conjunction with any other antenna or transmitter. Installers must ensure that a separation distance of 20 cm (7.87 inches) between the device (excluding its handset) and users is maintained.

SYMBOL	ANNOTATION	EXPLANATION
	**WARNING**	*This symbol indicates that the appliance uses a flammable refrigerant. In the event of a refrigerant leak and contact with an external ignition source, there is a risk of fire. (Applies only to air conditioners bearing the UL or ETL marking, UL 60335-2-40)
	**WARNING**	* This symbol indicates that the appliance uses a flammable refrigerant. In the event of a refrigerant leak and contact with an external ignition source, there is a risk of fire. (Applies to air conditioners bearing the CE and CB marking, IEC 60335-2-40+A1:2016)
	**WARNING**	* This symbol indicates that the appliance uses a material with a low burning velocity. (Applies to air conditioners bearing the CB marking, IEC 60335-2-40:2022)
	**WARNING**	* This symbol indicates that the appliance uses a material with a low burning velocity. (Applies to air conditioners bearing the CB marking, IEC 60335-2-40:2018)
	**NOTE**	This symbol indicates that the operating instructions should be read carefully.
	**NOTE**	This symbol indicates that the equipment should be handled by service personnel in accordance with the installation instructions.
	**NOTE**	*This symbol indicates that additional information is available, such as the operating instructions or installation instructions.

Warning

Note:

An air conditioner using R32 refrigerant, if handled improperly, may cause serious injury to persons or damage to the surrounding environment.

- The requirements for room area and the maximum amount of refrigerant are shown in the table on the right.
- If frost forms on the unit, do not use any methods to accelerate the defrosting process other than those recommended by the manufacturer.
- Do not use any cleaning agents on the unit other than those approved by the manufacturer.
- Do not puncture or burn the air conditioner, and ensure that the refrigerant line is not damaged.
- The appliance must be stored in a room without continuously operating ignition sources (such as open flames, an operating gas appliance, or an electric heater).
- Be aware that the refrigerant may be odorless.
- The air conditioner should be stored in a location that prevents accidental damage to the appliance.
- All local regulations and safety requirements must be observed.

Requirements for room area and maximum refrigerant quantity

Refrigerant	Permissible refrigerant quantity (kg)	Minimum floor area for installation (m^2)
R32	< 1,84	7,0
	1,84 - 2,34	9,0
	2,341 - 2,84	10,5
	2,841 - 3,34	12,5
	3,341 - 3,84	14,0
	3,841 - 4,34	18,0

Safety Instructions

Improper installation or use not in accordance with this manual may result in personal injury, property damage, etc. The level of risk is indicated according to the following symbols:

WARNING ⚠

This symbol indicates the possibility of death or serious injury.

NOTE ⚠

This symbol indicates the possibility of injury or property damage.

	Do not do this		Follow the instructions.
	Switch off the power supply.		Environmental notes.

WARNING ⚠

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 are supervised or instructed by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance..
(Except for the AC with CE-MARKING)

This appliance may be used by children aged eight years and above and by persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, provided that they have been given supervision or instruction concerning the safe use of the appliance and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be carried out by children without supervision.
(Only for the AC with CE-MARKING)

NOTE ⚠ 

- Do not connect the grounding wire to a gas pipe, water pipe, lightning rod, or telephone grounding wire.
- Do not pull on the power cord. Pulling the cord may cause damage to the appliance or result in electric shock.
- Do not turn off the main switch during operation or with wet hands. This may cause electric shock.
- Do not direct the airflow from the air conditioner directly onto a heating appliance. This may lead to incomplete combustion and, consequently, poisoning.
- Do not allow the remote controller or the indoor unit to become wet or excessively damp. Excess moisture may damage the appliance or cause electric shock.

Safety intructions

WARNING ⚠

- Do not install the air conditioner in a place where flammable gas or liquid is present unless the distance is at least 1 m.
- Do not use any unapproved liquids or cleaning agents to clean the air conditioner.
- Do not attempt to repair the air conditioner yourself. Improper repairs may cause fire or explosion. Contact a qualified service technician for any servicing needs.
- Do not use the air conditioner during thunderstorms. Turn off the power supply to prevent danger or injury.
- Do not insert hands or any objects into the air inlets or outlets. This may cause injury or damage to the appliance.
- Do not block the air inlet or outlet. Otherwise, cooling or heating performance will be reduced or the system may stop operating

WARNING ⚠

- Install the system on a stable surface to prevent the unit from falling and causing injury or damage.
- The appliance must be installed in accordance with applicable electrical regulations.
- An appropriately rated residual current device (RCD) must be installed to avoid possible electric shock.
- If the power supply cord is damaged, it must be replaced by the manufacturer, its authorized service agent, or similarly qualified persons in order to avoid a hazard.
- Contact qualified service technicians for all installation and servicing requirements.
- The air conditioner must be grounded. Failure to provide proper grounding may result in electric shock.
- Ensure that the system has a dedicated electrical circuit and that all electrical work is carried out by a person certified or licensed to perform such work in the relevant country or region.
- Ensure that the following items are not located beneath the indoor unit:
- Microwave ovens, ovens, and other hot appliances
- Computers and other devices with high electrostatic sensitivity
- Electrical outlets
- Items susceptible to water damage
- The piping between the indoor and outdoor units must not be reused unless it has been properly flushed and re-flared.
- Specifications regarding electrical requirements are provided on the unit nameplate.

WARNING ⚠

- Always switch off the appliance and disconnect the power supply when it will not be used for an extended period to ensure safety.
- Always switch off the appliance and disconnect the power supply before carrying out any maintenance or cleaning. Otherwise, electric shock or damage may occur.

WARNING ⚠

- This product contains fluorinated greenhouse gases.
- Refrigerant leaks contribute to climate change.
- Never tamper with the refrigerant circuit or attempt to carry out repairs without proper training and compliance with local and national regulations.
- The refrigerant in this system has a lower Global Warming Potential (GWP) than refrigerants with a higher GWP. If released into the atmosphere, the refrigerant contained in this appliance has a GWP of 675. This means that if 1 kg of this refrigerant were released into the atmosphere, its impact on global warming over a period of 100 years would be 675 times greater than that of 1 kg of CO_2.

NOTE ⚠

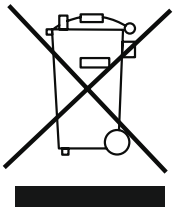
- Do not operate the system with windows or doors open. This will reduce the operating efficiency of the appliance.
- Do not stand on the outdoor unit or place heavy objects on it. This may cause injury or damage to the unit.
- Do not use the system for purposes other than its intended use, such as drying clothes or storing food.
- Do not direct cold air onto the body for a prolonged period. This may worsen health conditions and cause health problems.

NOTE ⚠

- Proper adjustment of the set temperature can help prevent the waste of electrical energy.
- If your air conditioner is not equipped with a power cord and plug, a double-pole switch with a contact separation of at least 3 mm in each pole must be installed in the fixed wiring, and the distance between the contacts shall not be less than 3.0 mm.
- The appliance must be correctly and independently connected to the fixed wiring; a residual current device (RCD) with a rated residual operating current not exceeding 30 mA must be installed in the installation.
- The power supply circuit should be equipped with overcurrent protection and a circuit breaker whose capacity should be more than 1.5 times the maximum current.
- For air conditioner installation, please refer to the following sections of this manual.

WEE NOTE

Meaning of the crossed-out wheeled bin symbol:
Do not dispose of electrical appliances as unsorted municipal waste; use separate collection facilities.
Contact your local authorities for information about available collection systems.
If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into groundwater and enter the food chain, posing a risk to health and safety.
When replacing an old appliance with a new one, the retailer is legally obligated to take back the old appliance for disposal, at least free of charge.



Notes on Use

Operating Range

- Operating the unit outside the recommended temperature range may affect its performance When the temperature is too high, the air conditioner may trip the overcurrent protection, causing the unit to shut down. When the temperature is too low, the heat exchanger of the outdoor unit may produce excessive moisture, leading to water dripping from the unit.
- During long periods of cooling or dehumidification at a relative humidity above 80%, doors and windows should be closed to prevent the indoor unit from producing excessive water and possible leakage.

Mode	Indoor Temperature	Outdoor Temperature
Cooling	16°C - 32°C	16°C - 46°C
		16°C - 55°C (For tropical areas)
		-15°C - 52°C (For models with low-temperature heating)
Heating (Heat pump operation mode only)	0°C - 32°C	-15°C -24°C
		-25°C - 24°C (For models with auxiliary heating)

Heating information

- The indoor unit fan will not start immediately when the heating cycle begins. The unit will warm up first and then start blowing air to prevent cold air from being discharged.
- When the outdoor air is cold and humid, frost may form on the heat exchanger of the outdoor unit, which will eventually activate the defrost function.
- During defrosting, the air conditioner will stop heating for approximately 5–12 minutes.
- Steam may be emitted from the outdoor unit during defrosting. This is not a malfunction but a result of rapid defrosting.
- Heating will resume after the defrost cycle is completed..

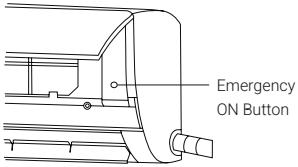
Information on Switching Off the Unit

- When the air conditioner is switched off, the main controller will automatically decide whether to stop the unit immediately or after several tens of seconds of operation at a lower frequency and reduced airflow speed.

Emergency Operation Mode

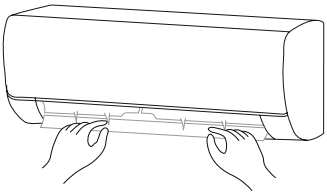
- If the remote controller is lost or damaged, use the forced operation button to operate the air conditioner.
- If this button is pressed while the unit is off, the air conditioner will operate in AUTO mode, with the temperature set to 25 °C and the fan speed set to AUTO.
- If the button is pressed while the unit is on, the air conditioner will stop operating.

Only some models are equipped with forced operation buttons.



Airflow Direction Adjustment

1. Use the up–down and left–right louver movement buttons on the remote controller to adjust the airflow direction. Detailed information can be found in the remote controller user manual.
2. For models without the left–right louver movement function, the louvers must be adjusted manually before turning on the unit.



Note: Moving the louvers while the unit is operating may cause finger injury. Never insert your hand into the air inlet or outlet while the air conditioner is operating.

Important Information

- The unit must be installed by a certified installer to avoid:
  Damage to the appliance
  Release of refrigerant into the atmosphere
  Electric shock
  Burns caused by refrigerant
  Other serious injuries, including death
- After installation, a leak test must be performed.
- To relocate or reinstall the air conditioner, contact a local authorized installer.

Checking the Contents During Unpacking

- Open the box and inspect the air conditioner in a well-ventilated area free from ignition sources.
- Note: Operators must wear antistatic equipment.
- Check for refrigerant leakage before opening the outdoor unit box; if any leakage is detected, stop the installation of the air conditioner.
- Fire-fighting equipment should be properly prepared before starting the inspection.
- Then check the refrigerant pipes to ensure that they are not damaged or leaking.

Safety Rules for Air Conditioner Installation

- Fire-fighting equipment must be prepared before installation. Ensure good ventilation of the installation area (open doors and windows).
- Ignition sources, smoking, and the use of mobile phones are prohibited in areas where R32 refrigerant is present.
- Precautions against electrostatic discharge must be taken during installation of the air conditioner, such as wearing clean cotton clothing and gloves.
- Keep a leak detector ready during installation. In the event of an R32 refrigerant leak, immediately measure the concentration in the room until it reaches a safe level.
- If a refrigerant leak affects the operation of the air conditioner, stop operation immediately; the air conditioner must be evacuated and returned to a service station for repair.
- Keep electrical appliances, switches, plugs, sockets, sources of high temperature, and sources of high electrostatic fields away from the area beneath the indoor unit.

Safety Rules for Air Conditioner Installation

- The air conditioner must be installed in a location that is easily accessible for installation and maintenance, with no obstructions blocking the air inlets or outlets of the indoor and outdoor units. The unit must also be kept away from heat sources and flammable or explosive conditions.
- During installation or repair of the air conditioner, if the connecting cable is too short, the entire cable must be replaced with one of the original specification; extending the cable is not permitted.

Installation Site Requirements

- Avoid locations where flammable or explosive gas leakage may occur and areas with poor ventilation.
- Avoid locations exposed to strong electric or magnetic fields, such as near microwave ovens or fluorescent lamps.
- Avoid locations subject to noise and resonance, such as walls adjacent to sleeping areas.
- Avoid extreme natural conditions (e.g. strong wind, direct sunlight, or sources of high temperature).
- Avoid locations within the reach of children.
- Keep the connection between the indoor and outdoor units as short as possible for optimal performance.
- Choose a location where servicing and repair can be carried out easily.
- The outdoor unit must not be installed in a way that obstructs passageways, stairs, emergency exits, walkways, or other public areas.
- The outdoor unit should be installed as far away as possible from neighbors' doors and windows and from plants.

Installation Site Requirements

- Check the nameplate of the outdoor unit to confirm that the refrigerant is R32.
- Check the floor area of the room. The area must not be smaller than the usable area specified in the specifications.
- The outdoor unit should be installed in a well-ventilated location.
- Check the surroundings of the installation site: R32 must not be installed in an enclosed space of a building.
- When using an electric drill to make holes in a wall, first check for any hidden water, electrical, or gas installations. It is recommended to use a prepared opening in the roof or wall.

Installation notes

Mounting Structure Requirements

- The mounting frame must comply with the relevant national or industry standards.
- It is recommended that the mounting frame and the supporting surface be able to withstand at least four times the weight of the appliance.
- The mounting frame of the outdoor unit should be fixed using expansion bolts or in accordance with the manufacturer's recommendations.
- Stable installation must be ensured regardless of the type of wall on which the unit is installed, in order to prevent possible falling that could cause damage or injury.

Electrical Safety Requirements

- Ensure that the air conditioner is supplied with the correct rated voltage and has a dedicated power supply circuit.
- Follow local and national regulations for the proper selection of power cables (AWG).
- The operating voltage range is 90%–110% of the local rated voltage. Insufficient power supply may cause malfunction, electric shock, or fire. If the voltage is unstable, a voltage regulator must be installed.
- The minimum distance between the air conditioner and flammable materials should be at least 1.5 m.
- Use the appropriate type and cross-section of cable to connect the indoor unit to the outdoor unit.
- The size of the connecting cable, power supply cable, fuse, and circuit breaker must be matched to the maximum current of the appliance.
- The maximum current is indicated on the nameplate located on the side panel of the unit. Use this nameplate as a reference when selecting the appropriate cable, circuit breaker, or fuse.

Working at Height Requirements

- When installing at a height of 2 m or higher above ground level, safety belts must be worn, and ropes of adequate strength must be securely fastened to the outdoor unit to prevent falling, which could result in personal injury, death, or property damage.

Grounding Requirements

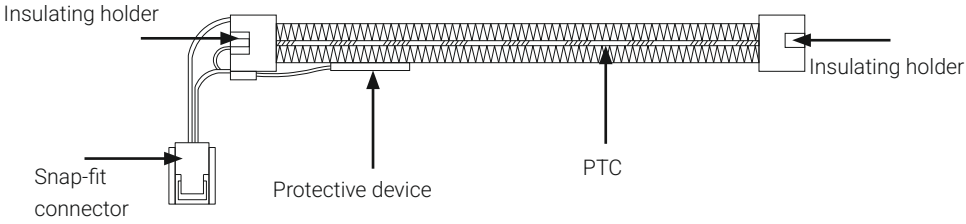
- Ensure that the unit is properly grounded. All applicable local and national regulations must be observed.
- Do not connect the grounding wire to a gas pipe, water pipe, lightning rod, telephone line, or a poorly grounded circuit. The grounding wire is specially designed and must not be used for other purposes or secured with an ordinary screw.
- Ensure that all electrical connections are securely fastened and connected to the correct terminals.
- Comply with all local and national electrical regulations.

Other Requirements

- The method of connecting the air conditioner to the power supply and the interconnection of individual components must comply with the electrical wiring diagram affixed to the unit.
- Fuse specifications are printed on the printed circuit board, for example: 3.15 A / 250 V AC, etc.

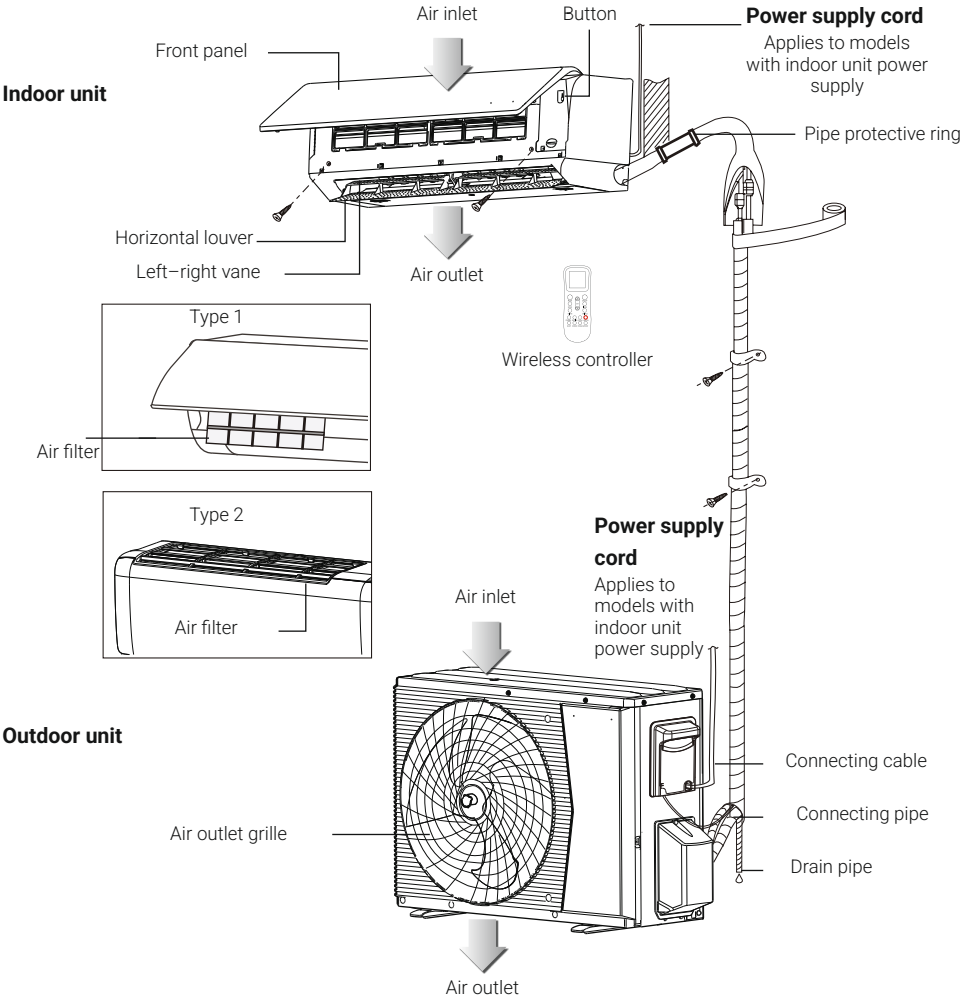
NOTE: Applies only to models with an auxiliary heating section.

- NOTE: Applies only to models with an auxiliary heating section.
- The auxiliary electric heating elements are installed and secured inside the evaporator of the indoor unit. These are ceramic PTC (Positive Temperature Coefficient) heating elements. The input power is indicated on the nameplate labeled “Electric Heating Input Power” (some models may not have this label).
- The external static pressure of the air conditioner at the test location is 0 MPa.
- A clearance of 12 mm must be maintained between the auxiliary electric heater and the housing to prevent a fire hazard caused by combustion.
- If the auxiliary electric heater, PTC element, or protective device is damaged, it must be replaced by a qualified specialist using parts supplied by our company.



Note: This diagram is for reference only.
Please refer to the actual installation of the indoor unit.

Installation Diagram



NOTE:

1. All illustrations in this manual are for explanatory purposes only.
2. Your air conditioner may differ slightly; the actual shape may vary.
3. Illustrations are subject to change without notice as part of future improvements.
4. The actual power supply method depends on the model purchased.

Accessories

Read the following safety instructions carefully before installing the drain pan heater. After installation is complete, check that the unit operates properly during start-up.

Indoor Unit List

Name	Quantity	Unit
Indoor unit	1	Set
Wireless controller*	1	pcs.
Batteries (7) *	2	pcs.
Manual	1	Set
Drain hose	1	pcs.

Outdoor unit list

Name	Quantity	Unit
Outdoor unit	1	Set
Connecting pipe*	2	pcs.
Plastic strap*	1	Roller
Pipe protective ring*	1	pcs.
Brazing material*	1	pcs.

NOTE:

1. Optional parts (*); some models may not be equipped with them.
2. The connecting cable and sound insulation mats are optional accessories.
3. All accessories depend on the actual contents of the package; if there are any differences, please understand.

Installation Diagram

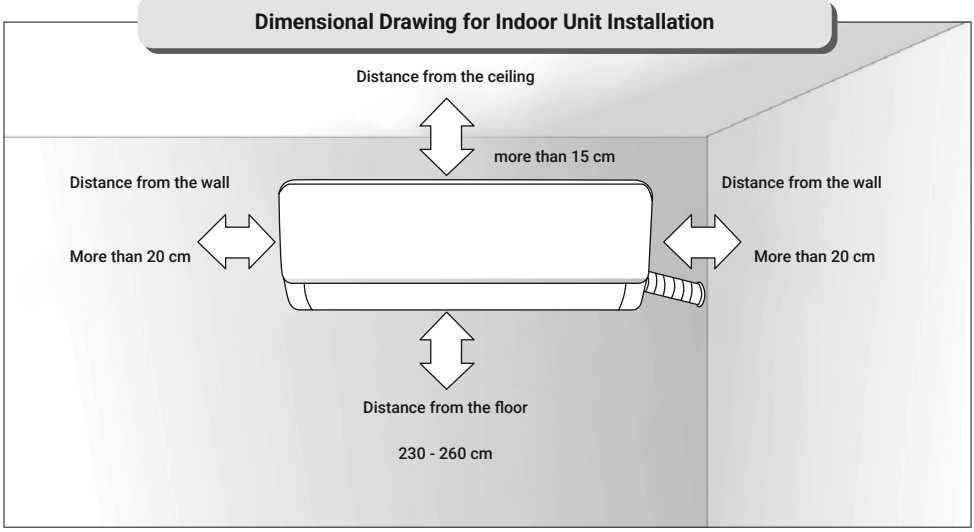
Required Tools

Read the following safety instructions carefully before installing the drain pan heater. After installation is complete, check that the unit operates properly during start-up.

Phillips screwdriver	Flaring tool
Utility knife or scissors	Safety goggles
Clamp meter	Refrigerant charging scale
Hex key (Allen key)	Adjustable wrench
Vacuum pump	Manifold gauge set
Spirit level	Pipe cutter
Torque wrench	Work gloves
Hole saw	Safety belt

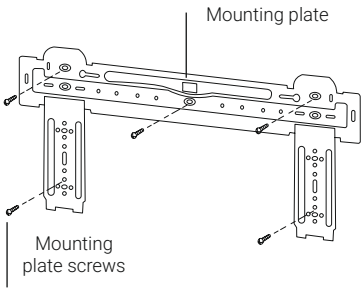
Indoor Unit Installation

Dimensional Drawing for Indoor Unit Installation



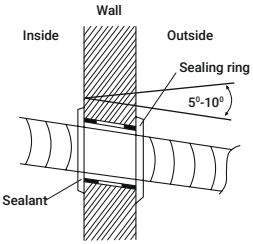
Mounting Plate

1. Ensure that the wall is strong enough to support the weight of the unit. Otherwise, the wall must be reinforced with plates, beams, or columns.
2. Use Phillips "+" screws in at least five suitable holes to secure the plate to the wall.
3. Ensure that the plate is level horizontally on the wall and that there is sufficient space between the plate and the wall and ceiling to install the unit.
4. After installation is complete, pull the mounting plate by hand to check that it is securely fixed.
5. Use the installation dimensions to locate and drill the holes (see the drawing).



Wall hole

1. After selecting a suitable location, drill the hole with an outward inclination of 5–10° to ensure proper drainage.
2. Ensure that the pipes and cables are protected from damage when passing through the wall by using a pipe protective ring or other protective device provided on site.
3. Use the supplied sealing compound to seal the passage of the pipes and cables, thereby preventing mold formation and the entry of rodents and cold/hot air into the room.



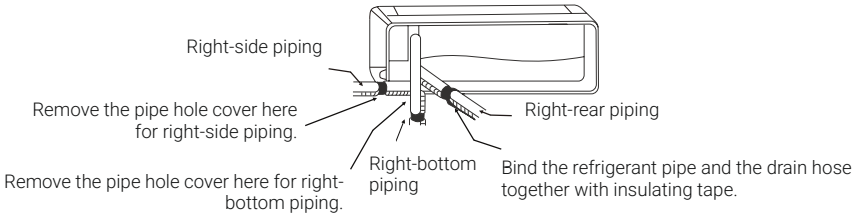
NOTE:
The wall hole usually has a diameter of 60 mm–80 mm.
Avoid hidden power cables and hard wall structures when drilling the hole.

Indoor Unit Installation

Pipe positioning

1. Refrigerant piping can be routed from the indoor unit in several ways. When routing to the left, right, or from the bottom, use the cut-out openings in the unit casing. Carefully bend the pipes to the required position to align them with the opening.
2. When routing to the rear, make sure the hole is drilled in the correct position according to the mounting bracket.
3. Wrap the interconnecting cable, refrigerant pipes, and drain hose together with insulating tape. (See Fig. 1)

A.Routing the pipes to the right side, rear right, or bottom right side



B.Routing the pipes to the left side, rear left, or bottom left side

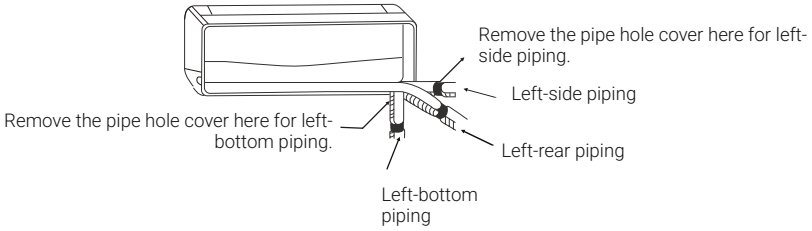
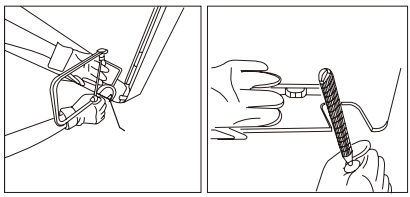


Figure 1

4. Bottom or side piping (see Fig. 2)

a. Cut off the pipe hole cover using a hacksaw.
b. Place the saw blade on the notch and cut off the pipe hole cover along the uneven inner surface.
c. After removing the pipe hole cover, use a file to smooth the edges.



Note:

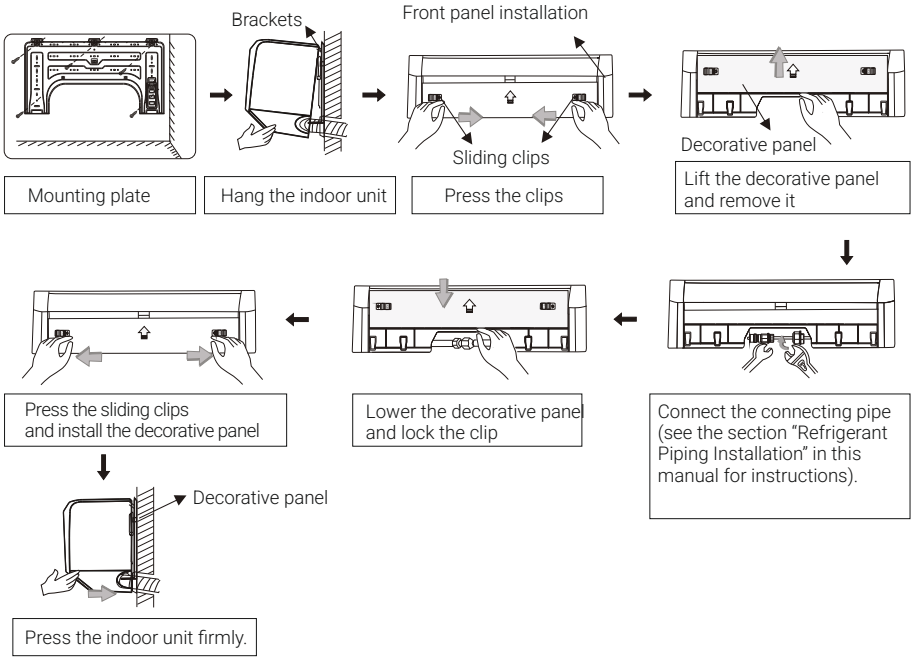
Bottom piping applies to certain units only.

Mounting the Indoor Unit

Note:

This section applies to CM models only.

1. Mount the unit onto the mounting plate.
   Hang the indoor unit on the upper part of the mounting plate (engage the two upper rear hooks of the indoor unit onto the upper edge of the mounting plate). Make sure the hooks are properly seated on the mounting plate by moving the unit left and right.
2. How to secure the indoor unit
   Hook the claws of the lower frame onto the mounting plate.
3. Then connect the indoor unit piping as follows:

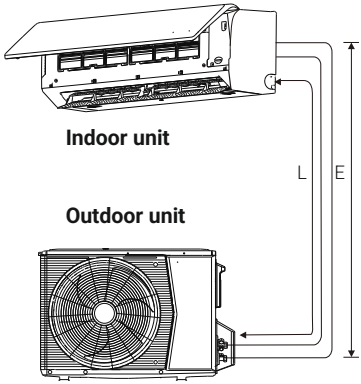


Installation of refrigerant piping.

Permissible pipe length.

If the pipe is too long, both the performance and the reliability of the unit will decrease.
As the number of bends increases, the flow resistance of the refrigerant increases, which reduces cooling performance. As a result, the compressor may be damaged. Always choose the shortest possible route and follow the recommendations shown in the table below:

Model						
	Indoor	07/09	12	18	24	36
	Outdoor	07/09	12	18	24	36
Min. lenght [L], [m]		3		3		
Max. lenght [L], [m]		20		30		
Maximum lifting height [E], [m]		15		20		
Pipe size [mm]		9,52		12,70		15,88
Liquid pipe sizej [mm]		6,35		6,35		



Installation of refrigerant piping

Note:

- Make sure that the appropriate amount of additional refrigerant has been added.
- Failure to add it may result in reduced performance. (See the table on page 16 for the amount of additional refrigerant.)
- The refrigerant pre-charged in the outdoor unit is intended for installations with a piping length of up to 7.6 m.

Piping work and flaring technique

- Do not use contaminated or damaged copper pipes. If the evaporator, condenser, or any piping has been left open and exposed to the atmosphere for 15 seconds or longer, the system must be evacuated. Do not remove the plastic plugs or brass caps from the piping connections until the connections are ready to be made.
- If any brazing is required, make sure that a nitrogen purge is used to prevent soot from forming on the inner walls of the copper pipes. Failure to follow this procedure may result in damage to the unit and will void the warranty.
- Cut the pipe as straight as possible (see Fig. 1). Use a deburring tool to remove any burrs. Hold the pipe with the opening facing downward to prevent metal chips from entering the pipe (see Fig. 2).

Installation of refrigerant piping

- Cut the pipe as straight as possible (see Fig. 1). Use a deburring tool to remove any burrs. Hold the pipe with the opening facing downward to prevent metal filings from entering the pipe (see Fig. 2).
- This will prevent irregularities on the flared surface, which could cause gas leaks.
- Slide the flare nuts, fitted on the connections of both the indoor and outdoor units, onto the copper pipes.
- The exact length of pipe protruding beyond the surface of the flaring block is specified by the flaring tool (see Fig. 3).
- Secure the pipe firmly in the flaring block. Align the center of the block and the flaring cone, then tighten the cone fully.
- The refrigerant pipe connections are insulated with closed-cell polyurethane foam.

Install the connecting pipe

- Apply a small amount of POE oil to the inner surface of the flare to prevent seizing.
- Align the center of the piping and tighten the flare nut by hand as much as possible (see Fig. 4).
- Set the torque wrench to the appropriate torque value according to the table. Finally, tighten the flare nut with the torque wrench until the wrench "clicks." When tightening the flare nut with a torque wrench, make sure that the tightening direction follows the arrow marked on the wrench.

Figure 1

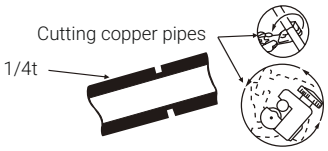


Figure 2

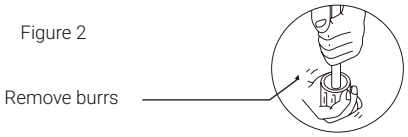
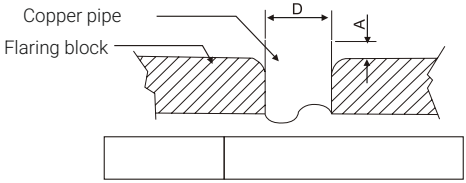


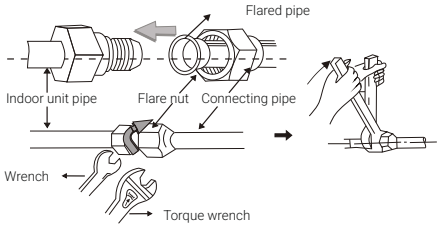
Figure 3



Ø Pipes, D	A [mm]	
[mm]	Imperial (wing nut type)	Rigid (clutch type)
6,35	1,3	0,7
9,52	1,6	1,0
12,70	1,9	1,3
15,88	2,2	1,7
19,05	2,5	2,0

Installation of refrigerant piping

Figure 4

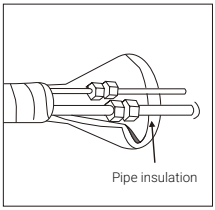


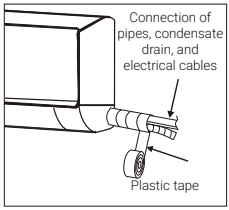
Tightening torque table

Pipe size, mm	Torque, N·m
Ø 6,35	15 -25
Ø 9,52	35 - 40
Ø 12,70	45 - 60
Ø 15,88	73 - 78
Ø 19,05	75 - 80

Wrapping the pipes

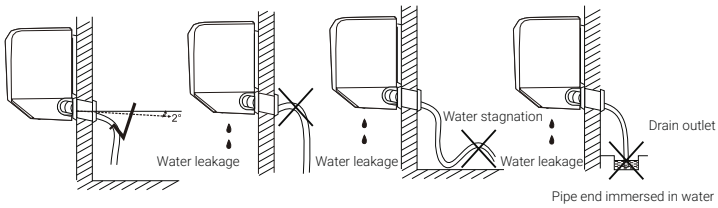
1. Use insulation sleeves to wrap the joint section as well as the indoor unit pipe and the connecting pipe. Then use insulating material to fill and seal the insulated pipe to prevent condensation from forming at the joint.
2. Connect the water outlet to the drain pipes and arrange the connecting pipe, cables, and drain hose neatly.
3. Use plastic ties to bundle the connecting pipes, cables, and drain hose together. Lay the pipe with a downward slope.





Condensate drain pipes

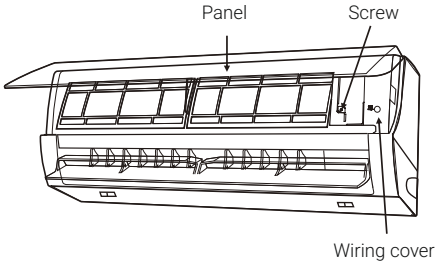
The indoor drain pipe must be installed with a downward slope to allow proper water drainage. Situations that may cause water leakage must be avoided.



Electrical wiring connection

Connect the indoor unit interconnecting cable

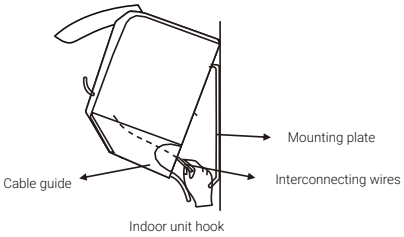
1. Open the front panel of the unit and remove the screw from the wiring cover to access the unit's terminal block.
2. Route the cable through the cable hole at the rear of the indoor unit, then pull it out from the front side of the unit, leaving sufficient length to make the connections.
3. Remove the cable clamp; connect the interconnecting wires to the corresponding terminals in accordance with the wiring diagram.
4. The power supply cable may be routed separately from the piping. Cut off the excess of the outlet opening, then pass the power cable through the opening, leaving the remaining portion as protection against rodents.
5. Tighten the screw securely, then fasten the interconnecting cable with the cable clamp.
6. Reinstall the wiring cover and tighten the screw.
7. Close the front panel.



Note:

This manual generally includes wiring diagrams for various types of air conditioners. We cannot rule out the possibility that some special types of wiring diagrams are not included.

The diagrams are for reference only. If the unit differs from the diagram shown in this manual, refer to the detailed wiring diagram attached to the purchased unit.



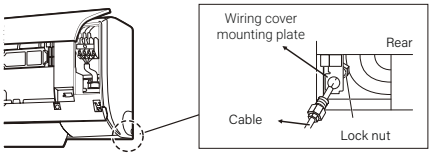
Post-installation inspection

1. Make sure that the screws are securely tightened and that there is no risk of the wires loosening.
2. Check that all wiring is neatly arranged inside the unit and that there is no risk of the wires being pinched by the casing or coming into contact with the control board.
3. Check the control box cover to ensure that it has been installed correctly.

Electrical wiring connection

Note:

1. Make sure that all wiring between the indoor and outdoor units is continuous and securely connected. Any splicing or interruption of the wires may cause communication errors and prevent the unit from operating.
2. In the event of a blown fuse, replacement of the entire PCB may be required.



All wires must be securely connected

1. Make sure that none of the wires are connected to the pipe or the compressor as a ground. Ensure that no external force is applied to the terminals or wires. Make sure that all covers are properly installed with no gaps. Use round crimp terminals when connecting wires to the power terminal block. Connect the wires according to the markings on the terminal block (see the electrical diagram attached to the unit).
2. Use an appropriate screwdriver to tighten the terminal screws. An improper screwdriver may damage the screw head. Overtightening may damage the terminal screws.
3. Do not connect wires of different cross-sectional areas to the same terminal.
4. Keep the wiring neatly arranged.
5. Prevent situations in which the wires could obstruct other components or prevent the terminal box cover from being closed.

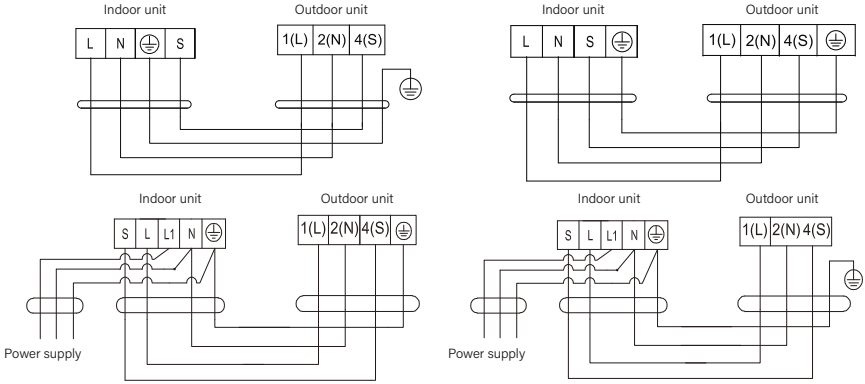
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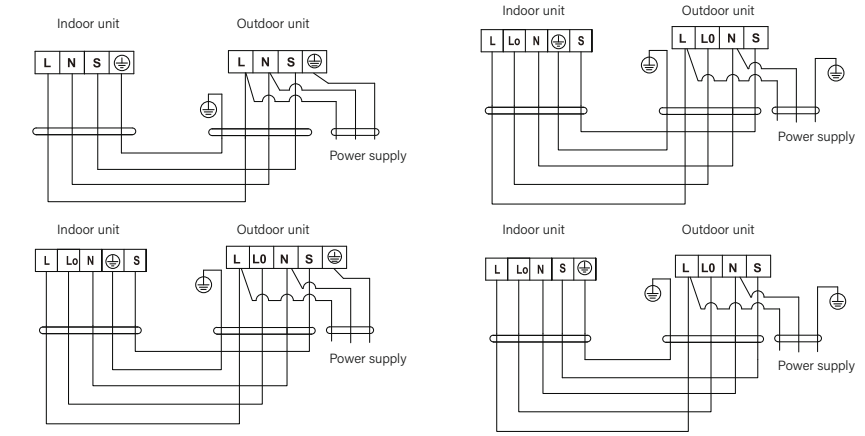
The diagrams are for reference only. If the unit differs from the diagram shown in the manual, refer to the detailed wiring diagram provided on the purchased unit.

Electrical wiring connection

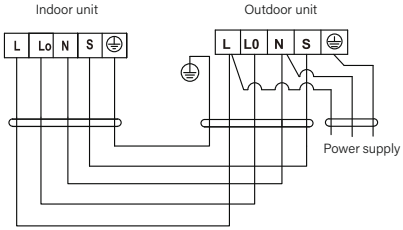
Indoor unit power supply

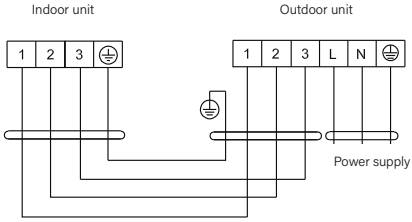


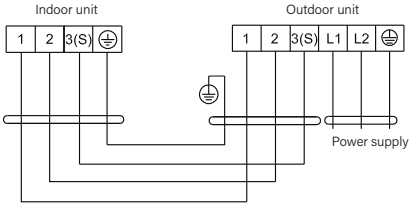
Outdoor unit power supply

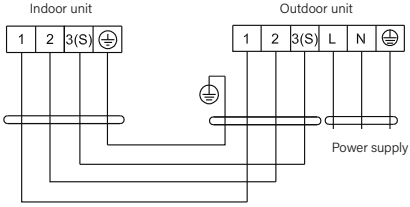


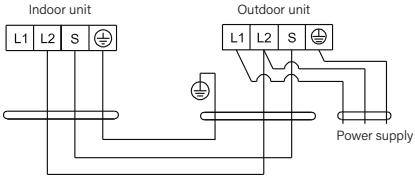
Electrical wiring connection

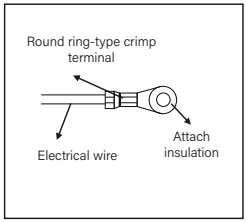


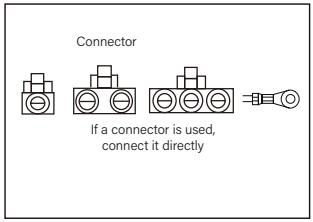






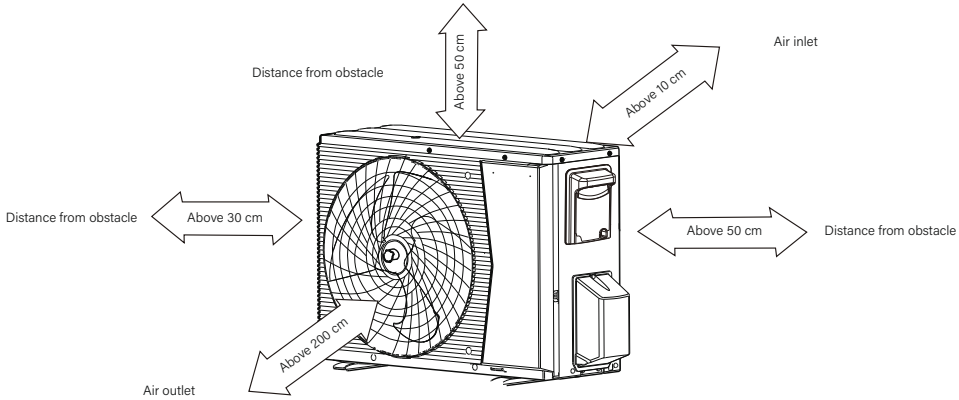


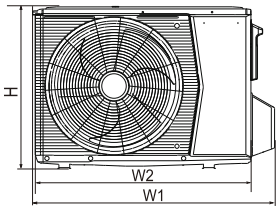


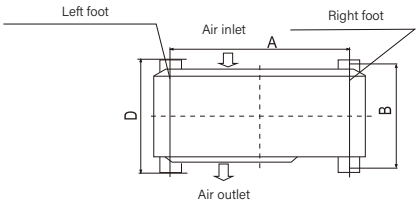


Maximum current (A)	Wire size mm^2
< 10	1,0
10 - 16	1,5
16 - 25	2,5
25 -32	4,0

Outdoor unit installation

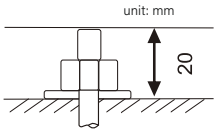






Outdoor unit mounting bolts

Outdoor unit dimensions (shape): W1 (W2) × H × D, mm	A, mm	B, mm
730(651)x456x278	480	253
805(712)x538x309	480	83
880(787)x557x353	546	316
913(827)x657x370	540	334
980(897)x700x388	632	352
1049(975)x803x455	675	390



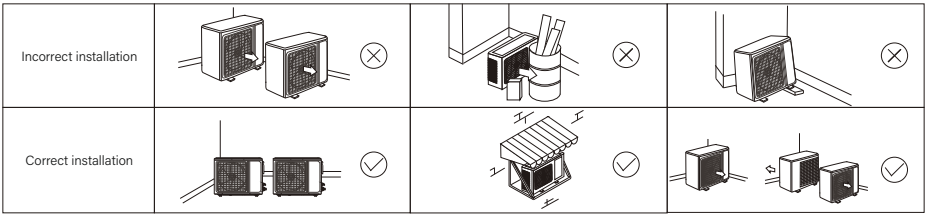
Installation:

1. Install a drain channel so that condensate can flow freely.
2. During installation, make sure that the base is stable and level to avoid vibration and noise.
3. Secure the outdoor unit firmly (M8 or M10 bolts).
4. The bolts used to secure the outdoor unit should protrude 20 mm above the surface of the base.
5. Do not use only the four corners as the sole support points for the unit.

The installation location of the outdoor unit has a direct impact on its performance.
To ensure optimal operation of the outdoor unit, these instructions must be followed carefully. In particular, it is important to prevent the discharged air from flowing back toward the rear of the unit. This must be avoided, as it significantly reduces cooling and heating efficiency.

1. The air discharged from the front of the unit must not immediately enter the return air inlet at the rear of the unit.
2. Providing sufficient clearance in front of the unit will help prevent this.
3. Make sure the unit is installed on a level surface and that there is adequate space for servicing. Do not allow an inclination of more than 5°.

The figures below show correct and incorrect installation.



Coastal installation instructions

- Air conditioners should not be installed in locations where corrosive gases, such as acidic or alkaline gases, are present.
- Do not install the unit in places exposed to direct sea breeze. Contact with sea air may lead to corrosion of the unit. Corrosion, especially on the condenser and evaporator fins, can cause unit malfunction, reduced performance, and refrigerant leakage.
- If the outdoor unit is installed near the sea, avoid direct exposure to sea wind. Otherwise, additional anti-corrosion protection may be required.

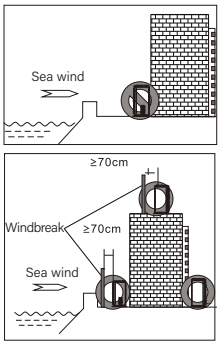
Selecting a suitable location (outdoor unit)

1. The windbreak should be sufficiently strong, for example made of concrete, to protect the unit from sea wind. Its height and width should exceed 150% of the dimensions of the outdoor unit.
2. Choose a location with good water drainage. Install the outdoor unit on the side opposite the direction of the sea wind, or install a windbreak to avoid direct exposure to sea wind. For coastal applications, more frequent maintenance inspections and cleaning will be required. Make sure the system is free of salt deposits by washing the unit with clean water at low pressure.
3. The unit should be positioned at least 70 cm away from the windbreak to ensure adequate airflow.

Coastal installation instructions

Note:

- The mounting frame for the outdoor unit must be secured using expansion anchors or in accordance with the manufacturer's recommendations.
- If the unit is mounted on a wall, ensure that it is safely and securely installed regardless of the wall type, to prevent any possibility of falling, which could damage the unit or cause injury.

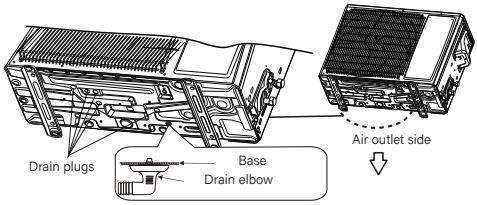


Condensate drainage from the outdoor unit (heat pump type only)

When the unit operates in heating mode, the outdoor unit may produce water that drips from the bottom of the unit. To control the flow of this water, use the supplied drain elbow.

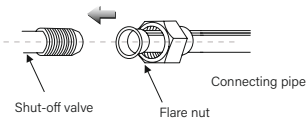
Installation:

1. Install the drain elbow into the <D25 mm hole on the bottom of the base plate and connect a drain hose to it. Route the hose to a suitable location so that the water generated by the outdoor unit can be properly drained.
2. In cold climate zones, do not use the drain elbow or drain plugs on the outdoor unit. Blocking the drain holes will cause ice to accumulate in the base, which may damage the unit. In cold climates, make sure the unit has sufficient space for water drainage and avoid snow accumulation.

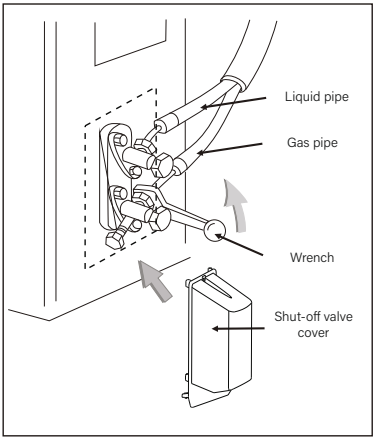


Installation of connecting pipes

An additional amount of refrigerant may be required depending on the length of the refrigerant piping to ensure proper operation of the unit and prevent damage. The table below shows the refrigerant charge requirements based on the installation length.



Connecting pipe length	Added or reduced refrigerant		Refrigerant charge in the unit
< 3M	cc≤12000Btu	Subtract 20g/m	≤ 1kg
	cc≥18000Btu	Subtract 40g/m	≤ 2kg
3 - 5M	Not required		
5 - 15M	cc≤12000Btu	Add 16g/m	≤ 1kg
	cc≥18000Btu	Add 24g/m	≤ 2kg



Note:

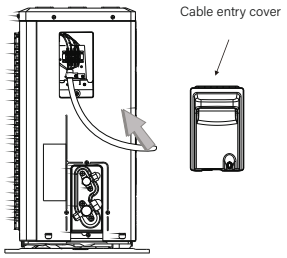
1. Flare fittings must not be reused. It is important to always re-flare the pipes after they have been disconnected and reinstalled.
2. After installation, check that the shut-off valve cover has been installed correctly.

Wiring connection

1. Loosen the screws and remove the cable entry cover from the unit.
2. Connect the wires to the corresponding terminals on the outdoor unit terminal block (see the wiring diagram) using ring terminals.
3. Ground wire: Remove the grounding screw from the electrical bracket, connect the end of the ground wire to the grounding screw, and fasten it into the grounding hole.
4. Secure the cable firmly using the fixing components (clamping plate).
5. Reinstall the cable entry cover and secure it with the screws.

Note:

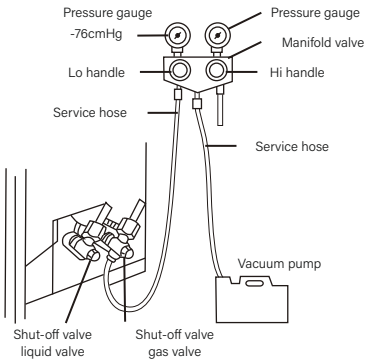
- This manual generally includes wiring diagrams for various types of air conditioners. However, it cannot be ruled out that some special types of wiring diagrams are not included.
- The diagrams are for reference only. Please refer to the detailed wiring diagram provided on the purchased unit.



Evacuation (vacuuming)

The refrigerant in the R32 model must be evacuated. (An R410A vacuum pump may be used.) Before starting work on the air conditioner, remove the shut-off valve covers (gas and liquid valves). After completing the work, make sure they are securely reinstalled to prevent possible leakage.

1. To prevent air leaks, make sure that all flared connections are properly connected and tightened to the specified torque.
2. Connect the shut-off valve, service hose, manifold gauge valve, and vacuum pump to the unit.
3. Fully open the manifold gauge valve and evacuate the system for at least 15 minutes, checking that the vacuum gauge indicates −0.1 MPa (−76 cmHg).
4. After evacuation, fully open the shut-off valve using an Allen key.
5. Check that the connections of the indoor and outdoor units are airtight and free from air leaks.



Testing and inspection

Post-installation inspection

Electrical safety check

1. Check that the power supply voltage is within the allowable range.
2. Check that the indoor and outdoor units are properly connected electrically.
3. Check that the air conditioner ground wire is securely grounded.

Installation safety check

1. Check that the unit is installed correctly and securely.
2. Check that water drains freely from the indoor unit to the outdoor drain.
3. Check that the wiring and piping are installed correctly and that there are no leaks.
4. Check that no foreign objects or tools have been left inside the unit.
5. Check that the refrigerant pipes and connections are properly insulated.

Refrigerant leak test

Depending on the installation method, the following methods may be used to check for possible leaks at locations such as the outdoor unit connections and the cores of shut-off valves and T-valves:

1. Bubble method: Apply or spray an even layer of soapy water onto the suspected leak area and carefully observe for the formation of bubbles.
2. Instrument method: Check for leaks using a leak detector, directing its probe toward the suspected leak areas in accordance with the instructions.

Note:

Before testing, make sure that ventilation is adequate.

Operation test

Preparation for operation test:

1. Check that all piping and wiring are properly connected.
2. Make sure that the gas-side and liquid-side valves are fully open.
3. Check that the unit is connected to the power supply.
4. Install batteries in the remote controller.

Note:

Before testing, make sure that ventilation is adequate.

Operation test

Operation test method:

1. Turn on the power and press the ON/OFF button on the remote controller to start the air conditioner.
2. Select COOL or HEAT mode, then use the remote controller to set the SWING function and other operating modes to verify proper operation of the unit.

Note:

1. For maintenance or disposal, contact an authorized service center.
2. Maintenance performed by unqualified personnel may result in injury or death.
3. Charge the air conditioner with R32 refrigerant and carry out maintenance strictly in accordance with the manufacturer's requirements. This section mainly focuses on the special maintenance requirements for units using R32 refrigerant.
4. Ask the service technician to refer to the after-sales service manual for detailed information.

Care and cleaning

WARNING ⚠

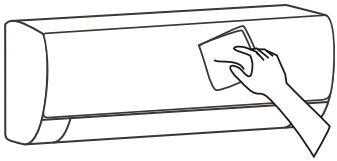
- Do not expose electrical connections or electronic components to moisture, as this may cause electric shock.

WARNING ⚠

- Before cleaning the air conditioner, turn it off and disconnect the power supply for at least 5 minutes; otherwise, there is a risk of electric shock. Volatile liquids such as thinner or gasoline may damage the air conditioner, so clean the unit housing only with a soft, dry cloth or a cloth slightly dampened with water.
- Check the filters regularly to prevent dust accumulation, which may affect the performance of the air conditioner. If the unit is installed in a dusty environment, the cleaning frequency should be increased. After removing the filter, do not touch the fins of the indoor unit with your fingers, as this may cause damage to the unit or personal injury.

Panel cleaning

When the indoor unit panel is dirty, clean it with a soft, dry cloth or a cloth slightly dampened with water.

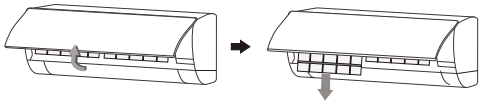


Air filter cleaning

Remove the air filter

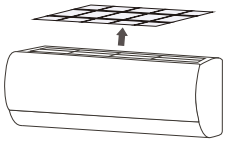
Type 1:

1. Use both hands to open the front panel and access the filters.
2. Gently remove the air filter from the slot.



Type 2:

The air filter is located above the casing. Remove it while keeping it facing upward.



Clean the air filter

Use a vacuum cleaner or rinse the filter with water. If the filter is heavily soiled (for example with greasy dirt), wash it with warm water (below 45 °C) and a mild detergent. Place the filter in the shade to air-dry.



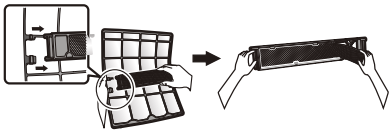
Clean or replace the health filter mesh

1. Cleaning: It can be cleaned together with the air filter.
2. Replacement: Remove the filter from the filter frame and install a new one.

Air filter cleaning

Note:

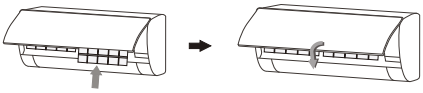
Do not discard the filter frame. When replacing the health filter mesh, reuse the filter frame. When installing the filter, make sure it is properly seated in the hooks. Dispose of the old filter as non-combustible waste.



Filter installation

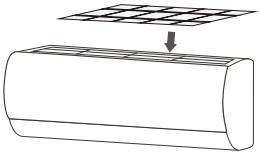
Type 1:

Install the dried filter in the reverse order of removal, then gently close the front panel and snap it into place.



Type 2:

Install the dried filter in the reverse order of removal.



Check before use

- Make sure that all air inlets and outlets of the unit are not blocked.
- Check that the indoor unit drains condensate properly.
- Check that the grounding wire is correctly and securely connected to ground.
- Check that the batteries in the remote controller are installed and in good condition.
- Check that the outdoor unit is securely mounted and free of obstructions.

Maintenance after use

- Turn off the air conditioner power supply at the outdoor unit.
- Clean the indoor unit panel and the filter.
- Remove dust and debris from the outdoor unit.
- Check that the outdoor unit is properly secured and shows no signs of damage.
- If any problems are found, contact our local service center for inspection.

Troubleshooting

WARNING ⚠

- Do not repair the air conditioner yourself, as improper maintenance may cause electric shock, fire, or explosion. Contact an authorized service center. Please check the following items before contacting service—this may save you time and money.

Phenomenon	Troubleshooting
The air conditioner does not operate	■ A power outage may have occurred — wait until the power supply is restored. ■ The power plug may be loose — insert the plug firmly into the outlet. ■ The fuse or circuit breaker may have tripped — replace the fuse or reset the breaker. ■ The timer setting time has not yet been reached — wait or cancel the timer setting.
The air conditioner does not start immediately after being restarted.	■ If the air conditioner is turned on immediately after being turned off, the built-in protection switch will delay operation for 3 to 5 minutes.
The air conditioner stops shortly after starting.	■ The set temperature may have been reached — this is normal operation. ■ The defrosting process may be in progress — after defrosting is completed, the unit will automatically resume operation. ■ The OFF timer may be set — if you wish to continue operation, turn the unit on again.

Phenomenon	Troubleshooting
There is airflow from the air conditioner, but the cooling/ heating effect is not satisfactory.	■ Excessive dust accumulation on the filter, blocking the air inlet or outlet – Please clean the filter and remove any obstructions at the air inlet/outlet. ■ The louvers are set at too steep an angle, restricting airflow – Please set the louvers to a straight position.. ■ Poor cooling or heating performance caused by open doors or windows, or an exhaust fan that is not fully closed – Please close doors, windows, and the exhaust fan, etc. ■ The auxiliary heating function is not enabled during heating, which may result in weak heating performance – Enable the auxiliary heating function (only for models with an auxiliary heating function) ■ Incorrect mode selection and improper temperature or fan speed settings – Please reselect the mode and set the appropriate temperature and fan speed.
The indoor unit emits an unpleasant odor.	■ The air conditioner itself does not emit unpleasant odors. If an odor occurs, it may be caused by the accumulation of odors in the surrounding environment. – Please clean the air filter or activate the cleaning function.
A sound of flowing water can be heard during operation.	■ When the air conditioner is turned on or off, the system may produce a “hissing” sound similar to flowing water. This is the sound of refrigerant flowing and does not indicate a malfunction.
A slight “clicking” sound can be heard when the unit starts or stops.	■ Due to temperature changes, the panel and other parts may expand or contract, causing a friction sound. This is a normal phenomenon and not a fault.
The indoor unit makes abnormal noises.	■ A sound may be heard when the fan relay or compressor switches on or off. ■ A sound may occur at the start or end of the defrosting process. – This is caused by a change in the direction of refrigerant flow and does not indicate a malfunction. ■ Excessive dust accumulation on the indoor unit filter may cause sound fluctuations –Please clean the air filters regularly. ■ Excessive air noise when the “Strong Wind” function is enabled is normal. – If it is uncomfortable, please turn off the “Strong Wind” function..

Phenomenon	Troubleshooting
Water droplets appear on the surface of the indoor unit.	■ When the ambient humidity is high, water droplets may form around the air outlet or the panel – this is a normal physical phenomenon. ■ Prolonged operation in cooling mode in an open space may cause water droplets to form – please close doors and windows. ■ Too small a louver angle may also cause water droplets at the air inlet – increase the louver angle.
During operation in cooling mode, the indoor unit outlet may sometimes blow out mist.	■ When the room temperature and humidity are high, this may sometimes occur because the indoor air is cooled rapidly. After a period of operation, the room temperature and humidity will decrease and the mist will disappear.

Immediately stop all operations, disconnect the power supply, and contact our local service center in the following situations:

- Unusual noises or unpleasant odors are heard during operation.
- The power cord or plug becomes excessively hot.
- The unit or the remote controller has been exposed to excessive water. The circuit breaker trips repeatedly.

Maintenance information

Note:
For maintenance or disposal, please contact an authorized service center.
Maintenance performed by unqualified personnel may result in injury or damage to the unit.
Charge the air conditioner only with R32 refrigerant and carry out maintenance strictly in accordance with the manufacturer's requirements.

Qualification requirements for maintenance personnel

1. Special training is required to work on equipment using A2L refrigerants. Installation, servicing, and repairs of this system must be carried out only by qualified technicians.
2. Maintenance and repair of the air conditioner must be performed in accordance with the methods recommended by the manufacturer. If assistance from other specialists is required during maintenance or repair, such work must be carried out under the supervision of personnel qualified to service air conditioners using flammable refrigerants..

Installation site inspection

Before carrying out maintenance on equipment using R32 refrigerant, a safety inspection must be performed to minimize the risk of fire.
Check that the area is well ventilated and whether antistatic or fire-protection equipment is required.
When servicing the refrigeration system, the following precautions must be observed before starting the unit.

Service procedures

1. General work area.
All service personnel and persons present in the area should be informed of the nature of the work being carried out. Work in confined spaces should be kept to a minimum. The work area should be properly isolated, and safety within the area ensured by controlling flammable materials.

2. Checking for the presence of refrigerant.
The area must be checked with an appropriate refrigerant detector before and during work so that the technician is aware of the possible presence of a toxic or flammable atmosphere. It must also be ensured that the leak detection equipment used is suitable for all refrigerants involved, i.e. non-sparking, properly sealed, or intrinsically safe.

3. Availability of a fire extinguisher.
If hot work is to be carried out on the refrigeration equipment or its components, suitable fire-fighting equipment must be readily available. A dry powder or CO_2 fire extinguisher must be provided near the charging area.

4. No ignition sources.
No person carrying out work on the refrigeration system that involves exposure of pipework shall use any source of ignition in a manner that may create a risk of fire or explosion. All potential ignition sources, including smoking, must be kept at a safe distance from the installation, repair, removal, or disposal area where refrigerant may be released into the surroundings.
Before starting work, the area around the equipment must be checked to ensure that there are no flammable hazards or ignition risks. “No Smoking” signs must be displayed.

5. Ventilated area (open doors and windows).
Ensure that the work area is outdoors or adequately ventilated before interfering with the system or carrying out hot work. Ventilation must also be maintained during the work. It should safely disperse any released refrigerant and preferably discharge it outdoors into the atmosphere.

Service procedures

6. Checks on refrigeration equipment.
When electrical components are replaced, they must be suitable for the intended application and comply with the specifications. The manufacturer's maintenance and service guidelines must always be followed. If in doubt, consult the manufacturer's technical department.
The following checks must be carried out on installations using flammable refrigerants:

- The refrigerant charge size is appropriate for the room size in which the refrigerant-containing parts are installed.
- Ventilation equipment and outlets are operating correctly and are not blocked.
- If an indirect refrigeration circuit is used, check for the presence of refrigerant in the secondary circuit.
- Refrigerant piping or components are installed in a location where the likelihood of contact with substances that could corrode refrigerant-containing parts is minimized, unless the components are made of corrosion-resistant materials or are adequately protected against corrosion.

7. Electrical equipment checks.
Repair and maintenance of electrical components shall include initial safety checks and component inspection procedures.
If a fault exists that could compromise safety, the electrical supply must not be connected to the circuit until the problem has been fully resolved. If the fault cannot be rectified immediately but it is necessary to continue operation, an appropriate temporary solution must be implemented. This must be reported to the equipment owner so that all parties are informed.
Initial safety checks shall include:

- Ensuring that capacitors are discharged; this must be done in a safe manner to avoid the possibility of sparking.
- Ensuring that no live electrical components or wiring are exposed during charging, recovery, or purging of the system.
- Maintaining continuity of the grounding system.

Electrical wiring inspection

Check the wiring for signs of wear, corrosion, overvoltage, vibration, sharp edges, and other adverse environmental factors. During inspection, take into account the effects of material aging as well as continuous vibration from the compressor and fan.

R32 refrigerant leak inspection

Note:
Refrigerant leak detection must be carried out in an environment free from potential ignition sources. Halogen probes or any other detectors that use an open flame must not be used.

Leak detection method:
In systems using R32 refrigerant, an electronic leak detector must be used.
Leak checks must not be carried out in an environment saturated with refrigerant. Make sure that the leak detector does not become a potential source of ignition and that it is suitable for the refrigerant being measured. Set the leak detector to the minimum flammable concentration of the refrigerant (%). Calibrate and adjust the device to the appropriate gas concentration (not more than 25%) for the refrigerant used.
The liquid used for leak detection is suitable for most refrigerants. However, do not use chlorinated solvents, as this may cause chlorine to react with the refrigerant and corrode copper piping.

If a leak is suspected, remove or extinguish all sources of ignition from the work area.
If the leak location requires welding or brazing, all refrigerant must be recovered or isolated from the leak point (using shut-off valves). Before and during welding, use OFN (oxygen-free nitrogen) to purge the entire system.

Refrigerant charging procedures

In addition to the general procedure, the following requirements must be observed:

- Ensure that different refrigerants are not mixed when using refrigerant charging equipment.
- The charging hose should be as short as possible to reduce the amount of refrigerant remaining in the hose.
- Storage cylinders must be kept in an upright position.
- Ensure that proper grounding is applied before charging the system with refrigerant.
- After charging is completed (or if the process has not yet been completed), label the system accordingly.
- Take care not to overcharge the system with refrigerant.

Disposal and recovery

Disposal:

Before carrying out this procedure, technical personnel must be thoroughly familiar with the equipment and all of its functions, and develop recommended practices for safe refrigerant recovery. Before recycling the refrigerant, samples of the refrigerant and oil should be analyzed. Ensure that the required power supply is available before starting the test.

1. Familiarize yourself thoroughly with the equipment and its operation.
2. Disconnect the power supply.
3. Before starting this process, make sure that:

- If necessary, the operation of mechanical equipment should facilitate handling of the refrigerant cylinder.
- All personal protective equipment must be in good working condition and used correctly.
- The entire recovery process must be carried out under the supervision of qualified personnel.
- Recovery equipment and storage cylinders must comply with relevant national standards.

4. If possible, the refrigeration system should be evacuated.
5. If a vacuum cannot be achieved, refrigerant should be recovered from different parts of the system from multiple points.
6. Before starting recovery, ensure that the capacity of the storage cylinder is sufficient.
7. Start and operate the recovery unit in accordance with the manufacturer's instructions.
8. Do not overfill the cylinder (the liquid volume must not exceed 80% of the cylinder capacity).
9. Even for short operating times, do not exceed the maximum working pressure of the cylinder.
10. After the cylinder has been filled and the recovery process completed, ensure that the cylinders and equipment are removed promptly and that all shut-off valves on the equipment are closed.
11. Recovered refrigerant must not be charged into another system before it has been cleaned and tested.

Note:

Identification must be carried out after the unit has been decommissioned and the refrigerant has been removed.

The identification should include the date and signature. Ensure that the labeling on the unit indicates the presence of flammable refrigerants in the unit.

Disposal and recovery

Recovery:

Before carrying out this procedure, technical personnel must be thoroughly familiar with the equipment and all of its functions, and establish recommended practices for safe refrigerant recovery. Before recycling the refrigerant, samples of the refrigerant and oil should be analyzed. Ensure that the required power supply is available before starting the test.

1. Removal of refrigerant from the system is required during repair or disposal of the unit. Complete removal of the refrigerant is recommended.
2. Only dedicated refrigerant cylinders must be used to charge the storage cylinder with refrigerant. Make sure that the cylinder capacity is suitable for the amount of refrigerant in the entire system. All cylinders intended for refrigerant recovery must be clearly labeled with the refrigerant identification (e.g., refrigerant recovery cylinder).

Storage cylinders must be equipped with safety valves and ball valves and be in good condition. If possible, empty cylinders should be evacuated before use and kept at room temperature.

3. The recovery unit must be kept in good working condition and be provided with operating instructions that are readily accessible. The equipment must be suitable for recovery of R32 refrigerant.

In addition, a qualified weighing device must be available and capable of normal operation.
Hoses must be connected using leak-free quick-disconnect couplings and kept in good condition.
Before using the recovery unit, check that it is in good working order and has been properly maintained.
Check that all electrical components are sealed to prevent refrigerant leakage and the risk of fire.
If in doubt, consult the manufacturer.

4. Recovered refrigerant must be placed in appropriate storage cylinders, labeled with transport instructions, and returned to the refrigerant manufacturer. Do not mix different refrigerants in the recovery unit, especially in the storage cylinder.
5. The transport compartment containing R32 refrigerant must not be sealed during transport. Antistatic measures must be taken if necessary. During transport, loading, and unloading, appropriate protective measures must be applied to protect the air conditioner and prevent damage.
6. When removing the compressor or draining oil from the compressor, ensure that the compressor has been pumped down to an appropriate level so that no residual R32 refrigerant remains in the lubricating oil. Vacuum pumping must be carried out before returning the compressor to the supplier. Ensure safety when draining oil from the system.

Voice control

Information

- If the unit is turned off and a command other than “Hello Lisa” or “TURN ON” is given, the unit will respond with “Please turn on the air conditioner first.” If the unit does not recognize the command, it will respond with “Invalid command.”
- Some modes are enabled by default in Auto mode. The temperature cannot be set in Fan mode or Auto mode. Please change the mode first, then adjust the temperature.
- When the temperature cannot be set higher, the unit will respond with “Temperature set to the highest.”
- When the temperature cannot be set lower, the unit will respond with “Temperature set to the lowest.”
- Medium fan speed cannot be set in Dehumidification mode.
- When the fan speed cannot be increased further, the unit will respond with “Fan speed set to maximum.”
- When the fan speed cannot be decreased further, the unit will respond with “Fan speed set to minimum.”
- Strong Wind can only be set in Cooling and Heating modes.
- The fan speed cannot be changed in Dehumidification mode.
- Automatic fan speed cannot be set in Fan mode or Dehumidification mode.
- When the volume cannot be increased further, the unit will respond with “Volume set to maximum.”
- When the volume cannot be decreased further, the unit will respond with “Volume set to minimum.”
- Commands in degrees Fahrenheit are supported only on certain models; please refer to the actual purchased model.

Voice commands

Precautions for using the voice function

1. Please speak in English at a moderate and steady pace. Speaking too quickly or using different regional accents may affect recognition accuracy.
2. It is recommended to use voice recognition within a range of 16 feet (5 m). For best results, face the unit when giving commands. If the distance is too great or there is excessive noise in the room, voice recognition may not function properly.
3. In noisy environments, there is a small possibility that voice recognition may be triggered unintentionally.
4. If voice recognition does not work properly, try speaking louder or moving closer to the unit. Remember to speak slowly, clearly, and while facing the air conditioner.
5. To enable or disable the voice function mode:
6. Use the remote controller. In Dehumidification mode, set the temperature to 16 °C (60 °F) and press the "–" button eight times. (This function is supported only on certain models.)

- Read the instructions carefully for safe and proper use of the voice function.
- Keep this manual in a safe place, as it may be needed at any time.

Voice function commands

Function	Voice command	Voice confirmation
Prompt successful Startup	Welcome to use intelligent voice air conditioner	
Wake up the air Conditioner	Hello Lisa	I'm here
Turn off voice	/	The voice function is disabled
Voice function Disabled	/	See you later
Turn ON/OFF	Turn on	OK, the air conditioner is turned on
	Turn off	OK, the air conditioner is turned off
Temperature (Celsius)	Sixteen degrees	Ok, sixteen degrees
	Seventeen degrees	Ok, seventeen degrees
	Eighteen degrees	Ok, eighteen degrees
	Nineteen degrees	Ok, nineteen degrees
	Twenty degrees	Ok, twenty degrees
	Twenty-one degrees	Ok, twenty-one degrees
	Twenty-two degrees	Ok, twenty-two degrees
	Twenty-three degrees	Ok, twenty-three degrees
	Twenty-four degrees	Ok, twenty-four degrees
	Twenty-five degrees	Ok, twenty-five degrees
	Twenty-six degrees	Ok, twenty-six degrees
	Twenty-seven degrees	Ok, twenty-seven degrees
	Twenty-eight degrees	Ok, twenty-eight degrees
	Twenty-nine degrees	Ok, twenty-nine degrees
	Thirty degrees	Ok, thirty degrees
	Thirty-one degrees	Ok, thirty-one degrees
	Thirty-two degrees	Ok, thirty-two degrees

Voice function commands

Function	Voice command	Voice confirmation
Temperature (Farenheit)	Sixty degrees	OK, sixty degrees
	Sixty-one degrees	OK, sixty-one degrees
	Sixty-two degrees	OK, sixty-two degrees
	Sixty-three degrees	OK, sixty-three degrees
	Sixty-four degrees	OK, sixty-four degrees
	Sixty-five degrees	OK, sixty-five degrees
	Sixty-six degrees	OK, sixty-six degrees
	Sixty-seven degrees	OK, sixty-seven degrees
	Sixty-eight degrees	OK, sixty-eight degrees
	Sixty-nine degrees	OK, sixty-nine degrees
	Seventy degrees	OK, seventy degrees
	Seventy-one degrees	OK, seventy-one degrees
	Seventy-two degrees	OK, seventy-two degrees
	Seventy-three degrees	OK, seventy-three degrees
	Seventy-four degrees	OK, seventy-four degrees
	Seventy-five degrees	OK, seventy-five degrees
	Seventy-six degrees	OK, seventy-six degrees
	Seventy-seven degrees	OK, seventy-seven degrees
	Seventy-eight degrees	OK, seventy-eight degrees
	Seventy-nine degrees	OK, seventy-nine degrees
	Eighty degrees	OK, eighty degrees
	Eighty-one degrees	OK, eighty-one degrees
	Eighty-two degrees	OK, eighty-two degrees
	Eighty-three degrees	OK, eighty-three degrees
	Eighty-four degrees	OK, eighty-four degrees
	Eighty-five degrees	OK, eighty-five degrees
	Eighty-six degrees	OK, eighty-six degrees
	Eighty-seven degrees	OK, eighty-seven degrees
	Eighty-eight degrees	OK, eighty-eight degrees
	Eighty-nine degrees	OK, eighty-nine degrees
	Ninety degrees	OK, Ninety degrees

Voice function commands

Function	Voice command	Voice confirmation
Temperature	Temperature up	OK, the temperature has risen
	Temperature down	OK, the temperature has dropped
Operating mode	Cooling mode	OK, cooling mode
	Heating mode	OK, heating mode
	Dehumidifying mode	OK, dehumidifying mode
	Fan mode	OK, fan mode
Fan speed	High speed	OK, high speed wind
	Medium speed	OK, middle speed wind
	Low speed	OK, low speed wind
	Higher wind speed	OK, the wind speed has increased
	Strong wind	OK, strong wind
	Lower wind speed	OK, the wind speed has decreased
	Silend wind	OK, silent wind
	Auto wind	OK, auto wind
Louver swing	Vertical swing on	OK, vertical swing is on
	Vertical swing off	OK, vertical swing is off
	Horizontal swing on	OK, horizontal swing is on
	Horizontal swing off	OK, horizontal swing is off
	Swing on	OK, the swing is on
	Swing off	OK, the swing is off
Volume	Increase volume	OK, the volume has increased
	Decrease volume	OK, the volume has decreased
	Maximum volume	OK, maximum volume
	Minimum volume	OK, minimum volume
Display	Display on	OK, the display on
	Display off	OK, the display off

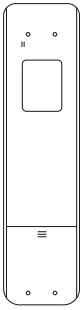
Model	Refrigerant	Environmental indicators		Refrigerant charge	
		GWP	ODP		
AUX-09CM/0	R32	675	0	0,55kg	0,37 t CO_2
AUX-12CM/O	R32	675	0	0,6kg	0,4 t CO_2
AUX-18CM/O	R32	675	0	1,03kg	0,7 t CO_2
AUX-24CM/O	R32	675	0	1,2kg	0,81 t CO_2

Wireless controller user manual

To obtain the user manual, please scan the QR code below:

YKR-C/101E

The model information is located on the back of the wireless controller.



Wi-Fi instructions

To obtain the Wi-Fi module user manual:

QR code for the Wi-Fi user manual

QR code – Android app

QR code – iOS app

Some room air conditioner models are not equipped with a Wi-Fi control function.

AUX

AIR CONDITIONER

Exclusive distributor of the AUX brand in Poland
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