

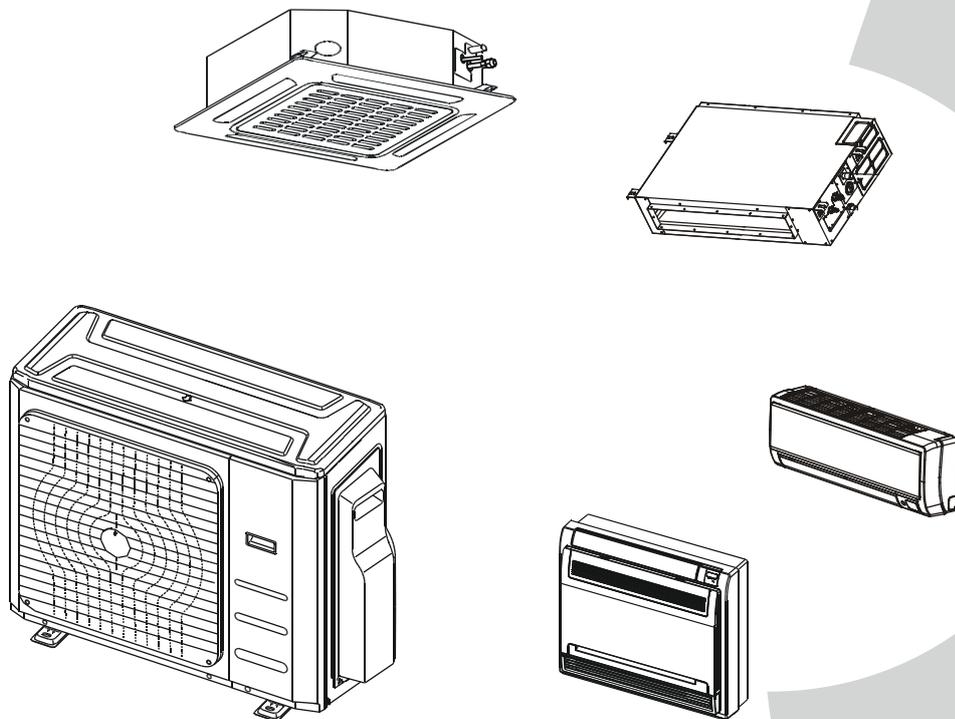
MULTI-SPLIT SYSTEM AIR CONDITIONER / HEAT PUMP



YN-M Series

Inverter++ Models

Two, Three, Four, and Five Zones
(Dual, Triple, Quad, and Quint Multi)



Owner's Manual

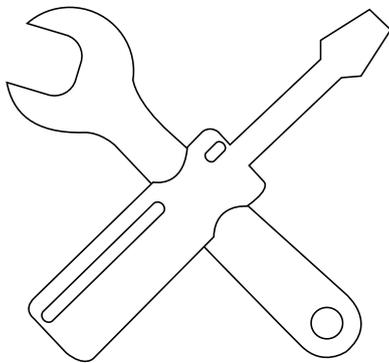
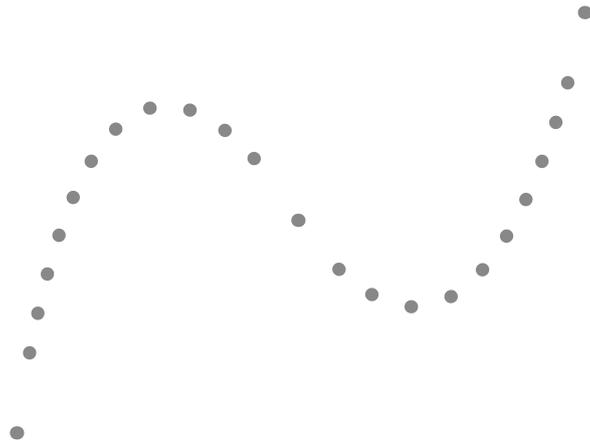
IMPORTANT NOTICE:

- Read through and fully understand this manual before installing or operating your new air conditioning unit. Be sure to store this manual for your convenient future reference.
- This manual only describes the outdoor unit of the system. For detailed information on the indoor unit, refer to the indoor unit's user manual.

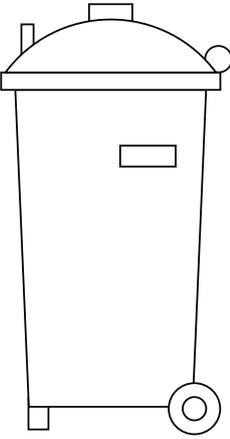
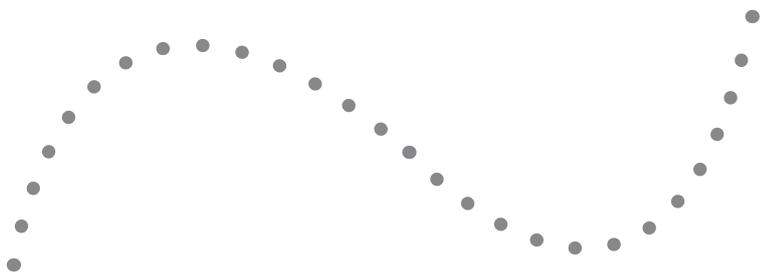
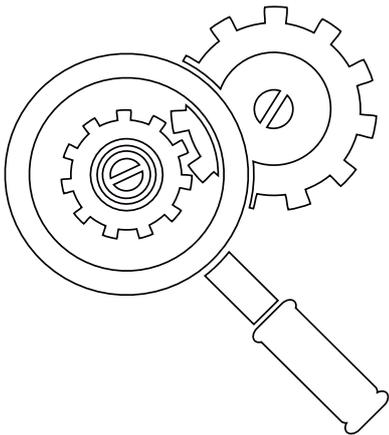
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Safety Precautions

1

Thank you for your purchase of this air conditioner. This manual will provide you with information on how to operate, maintain, and troubleshoot your air conditioner. Following the instructions closely will ensure the proper function and extended lifespan of your unit.

Please pay attention to the following signs:



WARNING

Failure to observe a warning may result in death. The appliance must be installed in accordance with all national regulations.



CAUTION

Failure to observe a caution may result in injury or equipment damage.

WARNING

- Have an authorized dealer install this air conditioner. Inappropriate installation may cause water leakage, electric shock, or fire.
- The warranty will be voided if the unit is not installed by professionals.
- If abnormal situations arise (such as burning odors), turn off the power supply and call your dealer for instructions to avoid electric shock, fire or injury.
- **DO NOT** let the indoor unit or the remote control get wet. It may cause electric shock or fire.
- **DO NOT** insert fingers, rods, or other objects into the air inlet or outlet. This could cause injury, since the fan may be rotating at high speeds.
- **DO NOT** use a flammable spray such as hair spray, lacquer, or paint near the unit. This may cause fire or combustion.

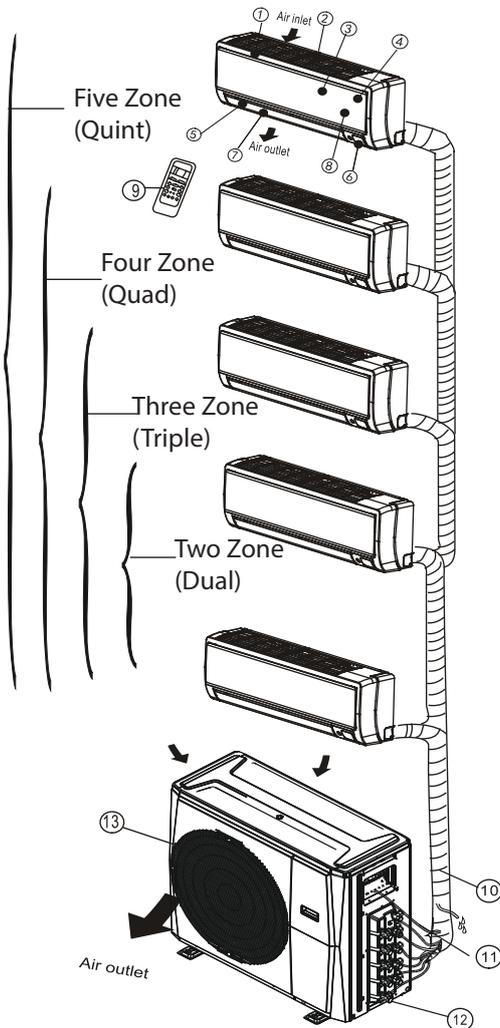
CAUTION

- **DO NOT** touch the air outlet while the swing flap is in motion. Fingers may get injured or the unit may break down.
- **DO NOT** inspect the unit by yourself. Ask an authorized dealer to perform the inspection.
- To prevent product deterioration, do not use the air conditioner for preservation purposes (storage of foods, plants, animals, works of art, etc.).
- **DO NOT** touch the evaporator coils inside the indoor unit. The evaporator coils are sharp and can cause injury.

- **DO NOT** operate the air conditioner with wet hands. It may cause electric shock.
- **DO NOT** place items that might be affected by moisture damage under the indoor unit. Condensation can occur at a relative humidity of 80%.
- **DO NOT** expose heat-producing appliances to cold air or place them under the indoor unit. This may cause incomplete combustion or deformation of the unit due to the heat.
- After long periods of usage, check the indoor unit to see if anything is damaged. If the indoor unit is damaged, it may fall and cause injury.
- If the air conditioner is used together with other heating devices, thoroughly ventilate the room to avoid oxygen deficiency.
- **DO NOT** climb onto or place objects on top of the outdoor unit.
- **DO NOT** operate the air conditioner when using fumigant insecticides. The chemicals may adhere to inner parts of the the unit and endanger those who are hypersensitive to chemicals.
- **DO NOT** let children play with, or near, the air conditioner.
- This air conditioner can be used by children aged 8 years and older, as well as people with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, if they have been given proper instruction on how to properly and safely operate the system.
- **DO NOT** operate the air conditioner in highly humid spaces (e.g. bathroom or laundry room). This can cause electrical shock, and cause the product to deteriorate.

Unit Parts

Wall-mounted type



Duct / Ceiling type

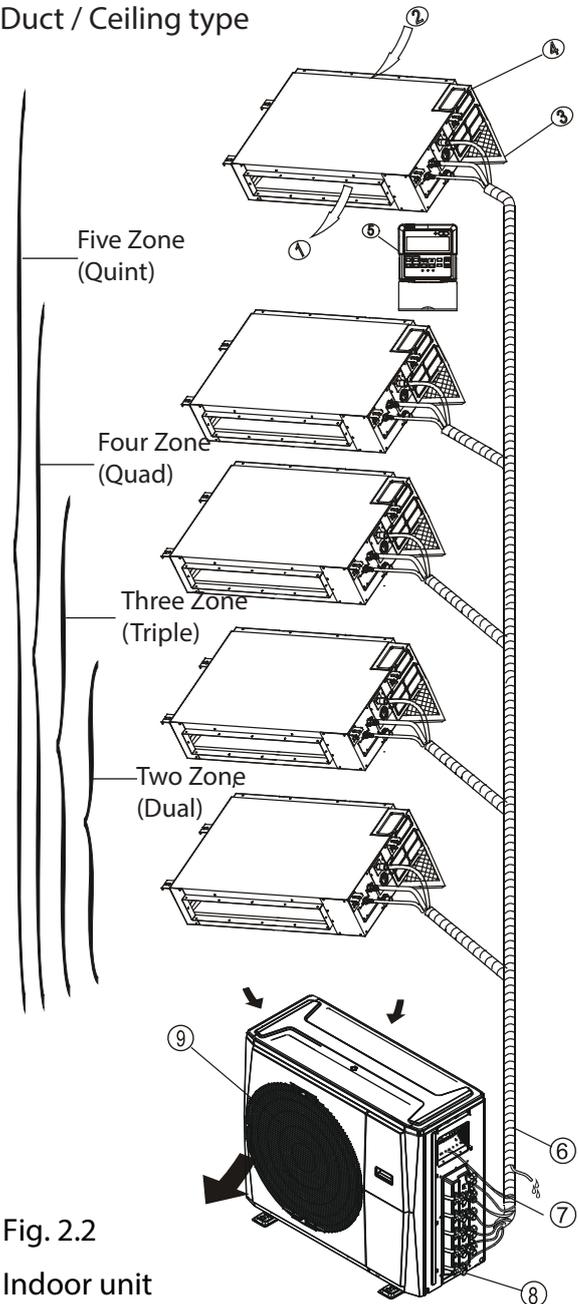


Fig. 2.1

Indoor unit

1. Panel frame
2. Rear air intake grille
3. Front panel
4. Air Purifying filter & Air filter (behind)
5. Horizontal louver
6. LCD display window
7. Vertical louver
8. Manual control button (behind)
9. Remote controller holder

Outdoor unit

10. Refrigerant connecting piping
11. Connective cable
12. Service valve
13. Fan grill

Fig. 2.2

Indoor unit

1. Air outlet
2. Air inlet
3. Air filter
4. Electric control box
5. Wired controller

Outdoor unit

6. Refrigerant connecting piping
7. Connective cable
8. Service valve
9. Fan grill

Floor and standing type(console)

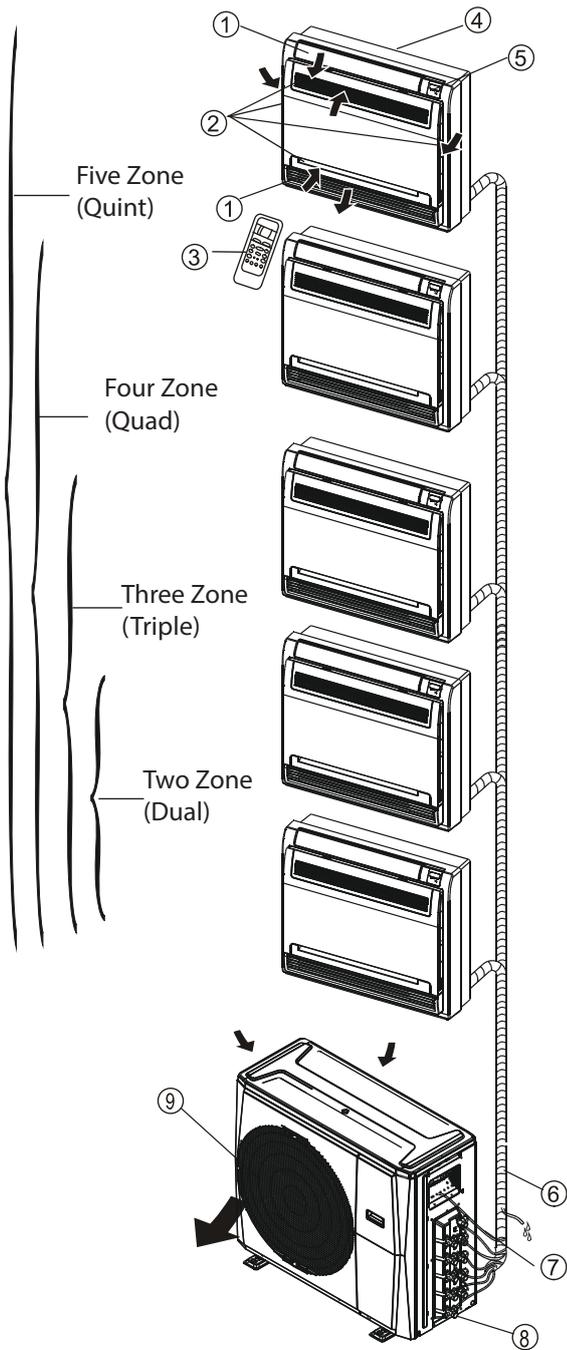


Fig. 2.3

Indoor unit

1. Air flow louver (at air outlet)
2. Air inlet(containing air filter)
3. Remote controller
4. Installation panel
5. Display panel

Outdoor unit

6. Refrigerant connecting piping
7. Connective cable
8. Service valve
9. Fan grill

Compact four-way cassette type

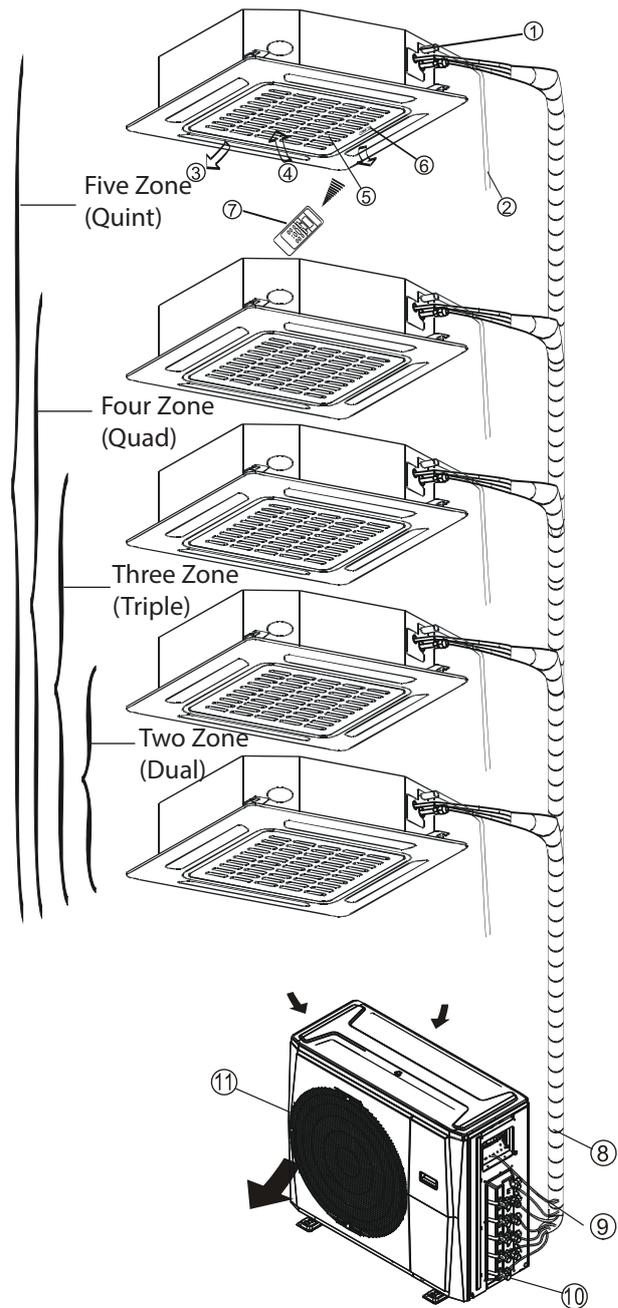


Fig. 2.4

Indoor unit

1. Drain pump(condensate removal pump)
2. Drain hose
3. Air outlet
4. Air inlet
5. Return air grill
6. Display panel
7. Remote controller

Outdoor unit

8. Refrigerant connecting piping
9. Connective cable
10. Service valve
11. Fan grill

NOTE: For multi-split type air conditioners, one outdoor unit can be matched with other types of indoor units of various different styles, as well as those with similar capacities, within the same system. Your system may be slightly different in shape. The following pages introduce several kinds of indoor units that can be matched with the multi zone outdoor units.

Operating Conditions

Operate the system under the following temperatures for safe and effective operation. If the air conditioner is used under different conditions, it may malfunction or become less efficient.

	COOL Mode	HEAT mode	DRY mode
Indoor Temperature	17-32°C (62-90°F)	0-30°C (32-86°F)	17-32°C (62-90°F)
Outdoor Temperature	0-50°C (32-122°F)	-15-24°C (5-76°F)	0-50°C (32-122°F)

Features

Protections of the air conditioner:

a. Compressor Protection

- The compressor will not restart for 3 minutes following an off cycle or for initial start.

b. Draft-Prevention Mode (Warm-Start Mode)

- The indoor unit fan is designed to not start in HEAT mode, when the indoor heat exchanger is in one of the following four situations, and the set temperature has not been reached:
 - A) When heating has just begun.
 - B) During defrosting.
 - C) Low temperature heating.
 - D) Indoor heat exchanger is not warm yet.
- The indoor or outdoor fans stop running when defrosting, in order to speed up the defrost cycle.

c. Defrosting (automatically handled as needed)

- Frost will accumulate on the outdoor unit coils during a heat cycle when outdoor temperature is low and humidity is high, resulting in lowered heating efficiency and performance.
- Under these conditions, the air conditioner will stop heating operations and will automatically begin defrosting for a brief period.
- The time to defrost may vary from 4 to 10 minutes, depending the outdoor temperature and the amount of frost buildup on the outdoor unit heat exchangers.

d. Auto-Restart (can be user deactivated)

In case of power failure, the system will immediately stop. When power returns, the operation light on the indoor unit will flash. To restart the unit, press the ON/OFF button on the remote control. If the system has the auto-restart function enabled, the unit will restart with the same settings without any action (by default).

White mist may emerge from the indoor unit

- White mist may be generated, due to a large temperature difference between the air inlet and air outlet, in COOL mode in places with high relative humidity.
- White mist may also be generated due to moisture created in the defrosting process, when the air conditioner restarts in HEAT mode operation after defrosting.

Noise coming from your air conditioner

- You may notice a low hissing sound when the compressor is running, or has just stopped running. This sound is the effect of the refrigerant flowing or coming to a stop.
- You may also hear a low "squeaking" sound when the compressor is running, or has just stopped running. This is caused by heat expansion and cold contraction of plastic parts in the unit due to changing temperatures.
- A noise may be heard due to the louver restoring itself to its original position when the power is first turned on.

Dust blowing out from the indoor unit.

- This happens when the air conditioner has not been used for a long time or during its first use.

Smell emitting from the indoor unit.

- This is caused by the indoor unit giving off smells permeated from building materials, furniture, or smoke.

The air conditioner turns to FAN-ONLY mode from COOL or HEAT (for cooling and heating models only) mode.

When the indoor temperature reaches the set temperature setting, the compressor will stop automatically, and the air conditioner shifts to FAN-ONLY mode. The compressor will start again when the indoor temperature rises on COOL mode, or falls on HEAT mode, to the set point. Inverter models will adjust their refrigeration capacities automatically based on actual room loads. Fan will keep running during operation.

Droplets of water may form on the surface of the indoor unit when cooling during relatively high humidity (defined as higher than 80%). Adjust the horizontal louver to the maximum air outlet position, and select HIGH fan speed.

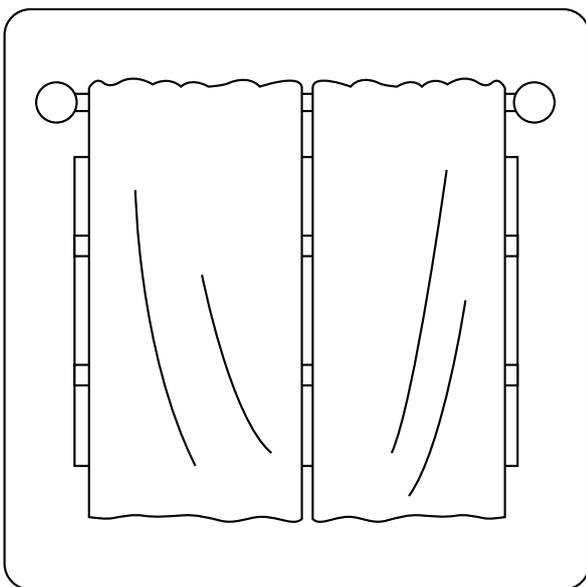
Heating mode (for cooling and heating models only)

The air conditioner draws in heat from the outdoor unit and releases it via the indoor unit during heating. When the outdoor temperature falls, heat drawn in by the air conditioner decreases accordingly. At the same time, heat loading of the air conditioner increases due to larger difference between indoor and outdoor temperature. If a comfortable temperature cannot be achieved with the air conditioner alone, it is recommended that you use a supplementary heating device.

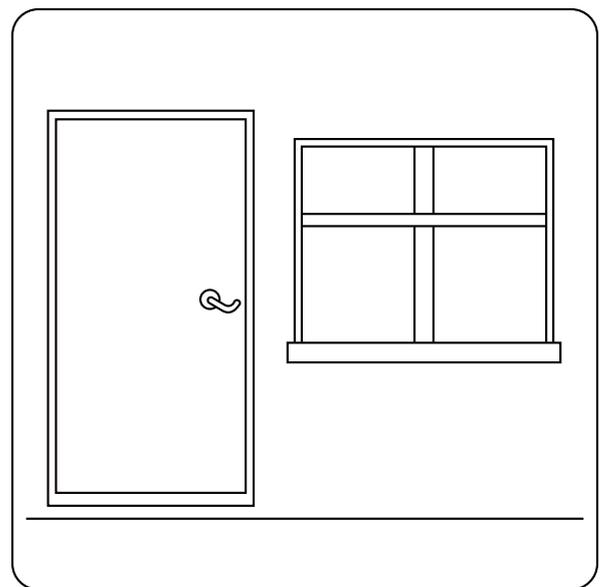
Lightning or a wireless devices operating nearby may cause the unit to malfunction. Disconnect the unit from its power source and then re-connect the unit with the power source again. Push the ON/OFF button on the remote controller to restart operations.

Energy Saving Tips

- **DO NOT** set the unit to excessive temperature levels.
- While cooling, close the curtains in order to avoid direct sunlight.
- Doors and windows should be kept closed so as to keep cool or warm air in the room.
- **DO NOT** place objects near the air inlet or outlet of the unit.
- Set a timer and use the built-in SLEEP/ECONOMY mode if applicable.
- If you do not plan to use the unit for a long time, remove the batteries from the remote control.
- Clean the air filter every two weeks.
- Adjust louvers properly and avoid direct airflow toward people, animals, or plants.



Closing curtains during heating also helps to keep the heat in



Doors and windows should be kept closed as much as possible

Operation mode selection

While two or more indoor units are simultaneously operating, make sure the “modes” do not conflict with each other. The heat mode claims precedence over all other modes. If the unit initially begins operation in HEAT mode, the other units can operate in HEAT mode only. For example: If the unit initially started operating under COOL (or FAN) mode, the other units can operate under any mode except HEAT. If one of the units is set in HEAT mode, the other running units will stop operation and display “P5” (for units with display window only) or the auto and operation indication lights will flash rapidly, the defrost indication light will turn off, and the timer indication light will remain on (for units without a display window). Alternatively, the defrost and alarm indication light (if applicable) will light up, or the operation indication light will flash rapidly, and the timer indication light will turn off (for the floor and standing type).

Maintenance

If you plan on leaving the unit idle for a long time, perform the following tasks:

1. Clean the indoor unit and air filter.
2. Select FAN-ONLY mode and let the indoor fan run for some time to dry the inside of the unit.
3. Disconnect the power supply and remove the battery from the remote control.
4. Check the components of the outdoor unit periodically. Contact a local dealer or a customer service center if the unit requires servicing.

NOTE: Before you clean the air conditioner, be sure to switch off the unit and disconnect the power supply breaker.

Optimal operation

To achieve optimal performance, please note the following:

- Adjust the direction of the air flow so that it is not blowing directly onto any people.
- Adjust the temperature to achieve the highest possible level of comfort. Do not adjust the unit to extreme temperature levels.
- Close doors and windows in COOL mode or HEAT mode.
- Use the TIMER ON button on the remote controller to select a time that you want your air conditioner to start.
- Do not place any objects near the air inlet or air outlet, as the efficiency of the air conditioner may be reduced, and the air conditioner may stop running.
- Clean the air filter periodically, otherwise cooling or heating performance may be reduced, and the heat exchanger can get clogged.
- Do not operate unit with the horizontal louver in a closed position.

For units that feature an outdoor electrical heater, when the outdoor ambient temperature is below 0°C (32°F), it is strongly recommended for you to keep the machine energized so as to keep it warm for a smoother restarting operation.

When the air conditioner is to be used again:

- Use a dry cloth to wipe off any dust that has accumulated on the rear air intake grille, in order to avoid the dust being dispersed from the indoor unit.
- Check that the wiring is not broken off or disconnected.
- Check that the air filter is installed.
- Check if the air outlet or inlet is blocked after the air conditioner has not been used for a long time.

! CAUTIONS

If one of the following conditions occur, switch off the power supply immediately and contact your installer or dealer for further assistance.

- The operation light continues to flash rapidly after the unit has been restarted.
- The remote control buttons do not work.
- The unit continually trips fuses or circuit breakers.
- A foreign object or water enters the air conditioner.
- Any other abnormal situation.

Common Problems

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

Problem	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, and within 3 minutes of each initial startup.
	Cooling and Heating Models: If the Operation light and PRE-DEF (Pre-heating/Defrost) indicators are lit up, the outdoor temperature is too cold and the unit's warm-start mode is activated in order to defrost the unit.
	In Cooling-Only Models: If the "Fan-Only" indicator is lit up, the outdoor temperature is too cold and the unit's anti-freeze protection is activated in order to defrost the unit.
The unit changes from COOL mode to FAN mode	The unit changes its setting to prevent frost from forming onto the unit. Once the temperature increases, the unit will start operating again.
	The set temperature has been reached, at which point the unit turns off the compressor. The unit will resume operating when the temperature fluctuates again.
The indoor unit emits white mist	In humid regions, a large temperature difference between the room's air and the conditioned air can cause white mist.
Both the indoor and outdoor units emit white mist	When the unit restarts in HEAT mode after defrosting, white mist may be emitted due to moisture generated from the defrosting process.
The indoor unit makes noises	A squeaking sound is heard when the system is OFF or in COOL mode. The noise is also heard when the drain pump (optional) is in operation.
	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	A low hissing sound may occur during operation. This is normal and is caused by refrigerant gas flowing through both the indoor and outdoor units.
	A low hissing sound may be heard 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 outdoor unit makes noises	The unit will make certain expected sounds based on its operating mode.

Problem	Possible Causes
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 foul odor	The unit may absorb odors from the environment (such as furniture, cooking, cigarettes, etc.), which will be emitted during operation.
	The unit's filters have become dirty or moldy, and should be cleaned.
The fan of the outdoor unit does not operate	During defrosting operations, the fan of the outdoor unit is stop-controlled to optimize the defrosting operation. Otherwise, check for blockage by ice/snow.

Troubleshooting Tips

When trouble is noticed, please check the following points before contacting a service company.

Problem	Possible Causes	Solution
The unit is not working	Power failure	Wait for the power to be restored
	The power switch or breaker is off	Turn on the power switch or breaker
	The fuse is burned out	Replace the fuse
	Remote control batteries are dead	Replace the remote control batteries
	The unit's 3-minute protection has been activated	Wait three minutes after restarting the unit
Poor cooling performance	Temperature setting may be higher than the 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
	Low refrigerant due to leak or long-term use	Check for leaks, re-seal if necessary, and top off refrigerant
The unit starts and stops frequently	There's too much or too little refrigerant in the system	Check for leaks and drain or recharge the system with refrigerant if needed
	There is air, incompressible gas or foreign material in the refrigeration system.	Evacuate and recharge the system with fresh refrigerant
	System circuit is blocked	Determine which circuit is blocked and replace the malfunctioning piece of equipment
	The compressor is broken	Replace the compressor
	The voltage is too high or too low	Install a regulator, or call the power company
Poor heating performance	The outdoor temperature is lower than 7°C (44.5°F)	Check for leaks and, recharge the system with refrigerant
	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	Check for leaks, re-seal if necessary, and top off refrigerant

Users in European countries may be required to properly dispose of this unit. This appliance contains refrigerant and other potentially hazardous materials. When disposing of this appliance, the law requires special collection and treatment. **DO NOT** dispose of this product as household waste or unsorted municipal waste.

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

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

NOTE: Disposing of this appliance improperly or other natural surroundings endangers your health and is bad for the environment. Hazardous substances may leak into the ground water and enter the food chain.



The design and specifications of this product are subject to change without prior notice as development continues. Consult with the sales agency or manufacturer for details.



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