

Owner's Manual

TABLE OF CONTENTS

	PAGE
A NOTE ABOUT SAFETY	2
GENERAL	2
PARTS	3
WIRELESS REMOTE CONTROL	4
REMOTE CONTROL	6
FEATURES	10
CARE AND MAINTAINANCE	13
TROUBLESHOOTING.....	15

NOTE TO EQUIPMENT OWNER:

Please read this Owner's Information Manual carefully before installing and using this appliance and keep this manual for future reference.

For your convenience, please record the model and serial numbers of your new equipment in the spaces provided. This information, along with the installation data and dealer contact information, will be helpful should your system require maintenance or service.

UNIT INFORMATION

Model # _____

Serial # _____

DEALERSHIP CONTACT INFORMATION

Company Name: _____

Address: _____

INSTALLATION INFORMATION

Date Installed _____

Phone Number: _____

Technician Name: _____

A NOTE ABOUT SAFETY

Any time you see this symbol  in manuals, instructions and on the unit, be aware of the potential for personal injury. **There are 3 levels of precaution:**

1. **DANGER** identifies the most serious hazards which will result in severe personal injury or death.
2. **WARNING** signifies hazards that could result in personal injury or death.
3. **CAUTION** is used to identify unsafe practices which could result in minor personal injury or product and property damage.

NOTE is used to highlight suggestions which will result in enhanced installation, reliability, or operation.



WARNING

PERSONAL INJURY, DEATH AND / OR PROPERTY DAMAGE HAZARD

Failure to follow this warning could result in personal injury, death or property damage.

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock, or other conditions which may cause personal injury or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or service agency must use factory-authorized kits or accessories when modifying this product.

Read and follow all instructions and warnings, including labels shipped with or attached to unit before operating your new air conditioner.

GENERAL

The cassette fan coil unit provides quiet, maximum comfort. In addition to cooling and/or heating, the cassette fan coil unit matched with an outdoor condensing unit filters and dehumidifies the air in the room to provide maximum comfort.

IMPORTANT: The cassette fan coil unit should be installed by authorized personnel only; using approved tubing and accessories. If technical assistance, service or repair is needed, contact the installer. The cassette fan coil unit can be set up and operated from the remote control (provided). **If the remote is misplaced, the system can be operated from the "Auto" setting on the unit.**

Operating Modes

The cassette fan coil unit has five operating modes:

- **FAN Only**
- **AUTO**
- **HEATING (heat pumps only)**
- **COOLING**
- **DEHUMIDIFICATION**

FAN Only

In the **FAN Only** mode, the system filters and circulates the room air without changing room air temperature.

AUTO

In the **AUTO** mode, the system automatically cools or heats the room according to the user-selected set point.

NOTE: AUTO mode is recommended for use on single zone applications ONLY. Using AUTO CHANGEOVER on multi-zone applications could set an indoor unit to STANDBY mode, indicated with two dashes (--) on the display, which will turn off the indoor unit until all the indoor units are in the same mode (COOLING or HEATING). HEATING is the system's priority mode. Simultaneous HEATING and COOLING is not allowed.

HEATING

In the **HEATING** mode, the system heats and filters the room air.

COOLING

In the **COOLING** mode, the system cools, dries and filters the room air.

DEHUMIDIFICATION (DRY)

In the **DEHUMIDIFICATION** mode, the system dries, filters and slightly cools the room air temperature. This mode prioritizes air dehumidification but it does not take the place of a dehumidifier. This feature cannot be used in a multi-zone system.

Wireless Remote Control

The remote control transmits commands to set up and operate the system. The control has a window display panel that displays the current system status. The control can be secured to a surface when used with the mounting bracket provided.

Wired Remote Control (Optional)

Refer to the Wired Controller manual.

24V Interface (Optional)

Allows the control of the Ductless System with a third party thermostat.

Smartphone Control (Optional)

Capability to be controlled by a smartphone adding the Wi-Fi® Interface Kit **KSAIF0301AAA (sold separately).**

PARTS

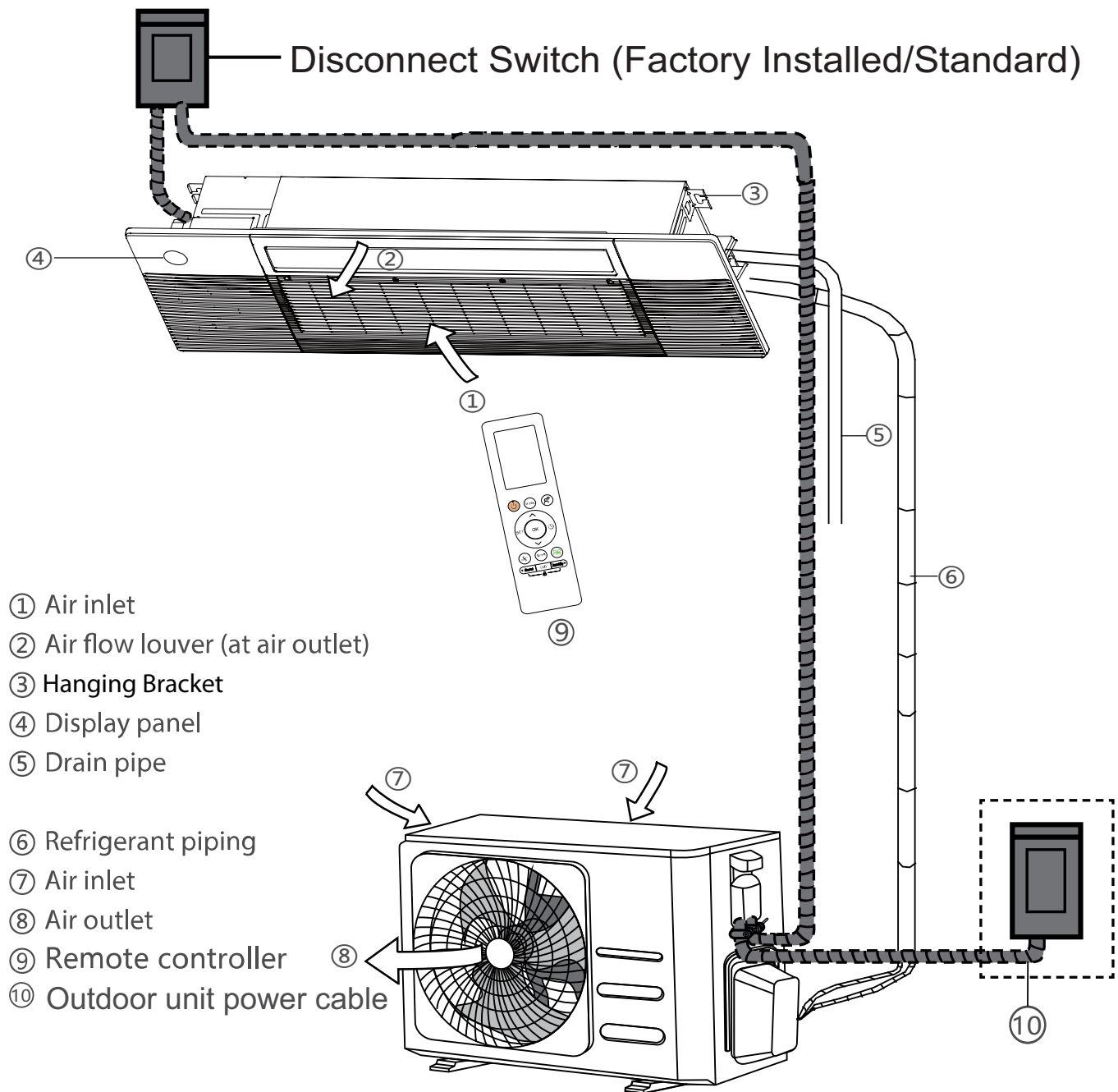


Fig. 1 —Indoor and Outdoor Unit

A220199

WIRELESS REMOTE CONTROL

Before you begin using your new air conditioner, familiarize yourself with the remote control. See page 6 through page 10 for more information on these controls.

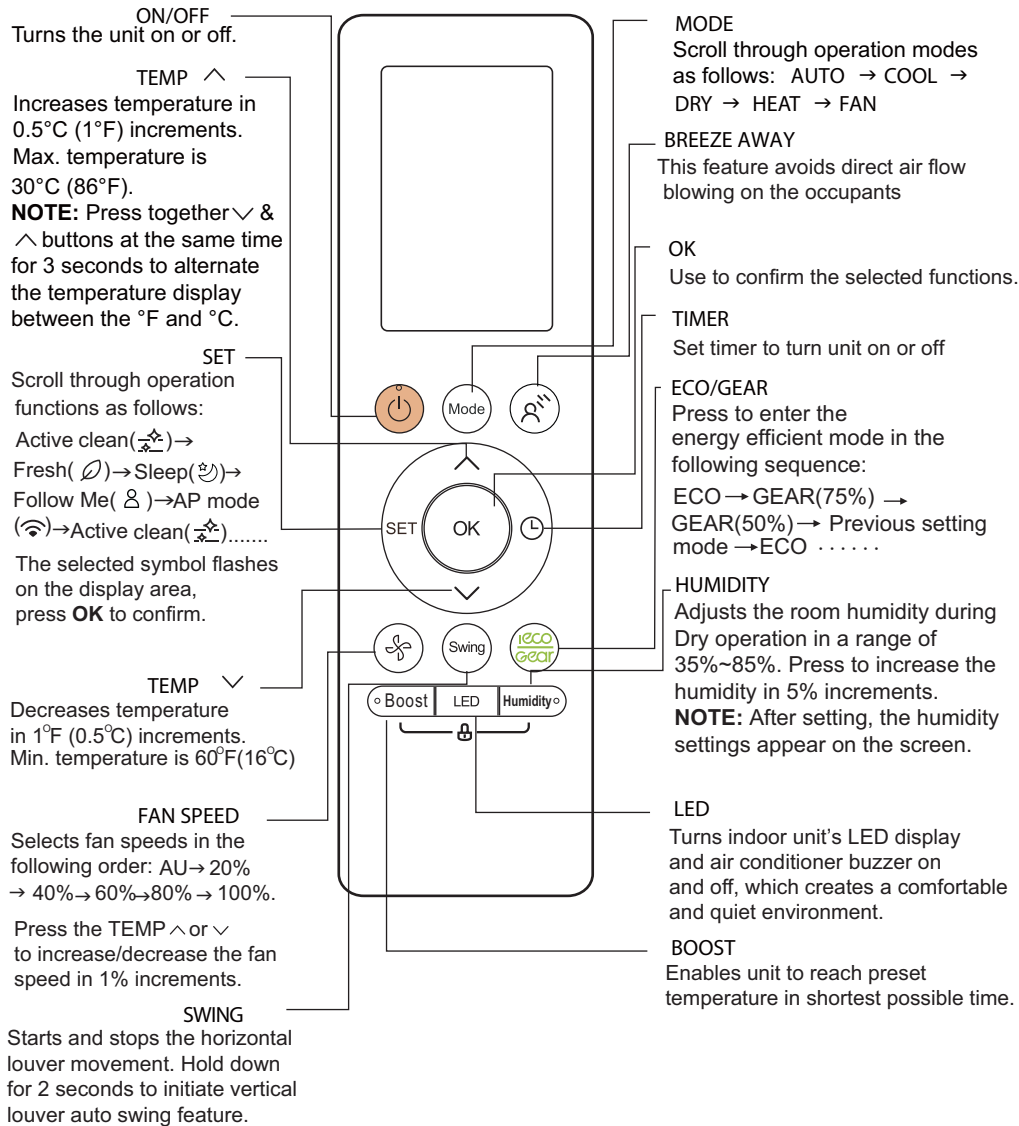


Fig. 2 —Remote Control Functions

WIRELESS REMOTE CONTROL LCD SCREEN INDICATORS

Information appears when the remote controller is powered up.

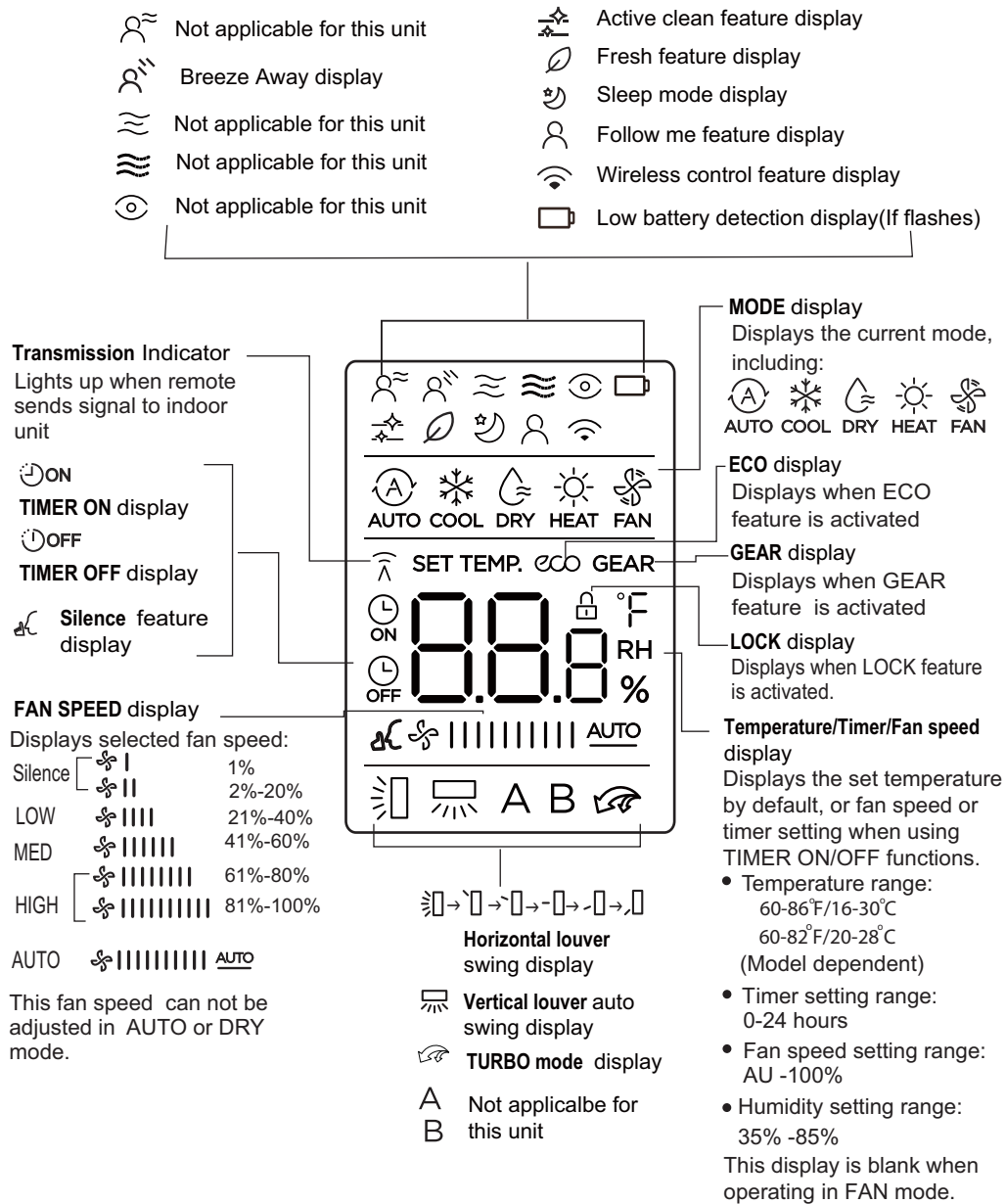


Fig. 3 —Wireless Remote Controller Indicators

REMOTE CONTROL



CAUTION

EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage. Handle the control with care and avoid getting the control wet.

IMPORTANT: The remote control can operate the unit from a distance of up to 26 ft. (8 m) as long as there are no obstructions. When the timer function is used, the remote control should be kept in the vicinity of the fan coil (within 26 ft. / 8 m).

The remote control can perform the following basic functions:

- Turn the system ON and OFF
- Select the operating mode
- Adjust room air temperature set point and fan speed
- Adjust right-left airflow direction

Refer to the “WIRELESS REMOTE CONTROL” on page 4 for a detailed description of all the capabilities of the remote control.

Battery Installation

Two AAA 1.5v alkaline batteries (included) are required for remote control operation.

To install or replace batteries:

1. Slide the back cover off the control to open the battery compartment.
2. Insert the batteries. Follow the polarity markings inside the battery compartment.
3. Replace the battery compartment cover.

NOTES:

1. When replacing batteries, do not use old batteries or a different type battery. This may cause the remote control to malfunction.
2. If the remote is not going to be used for several weeks, remove the batteries. Otherwise, battery leakage may damage the remote control.
3. The average battery life under normal use is about 6 months.
4. Replace the batteries when there is no audible beep from the indoor unit or if the Transmission Indicator fails to light.

When batteries are removed, the remote control erases all presets (e.g., **Follow Me**). The presets must be restored after the insertion of new batteries.

BASIC REMOTE CONTROL OPERATION

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

COOL Mode

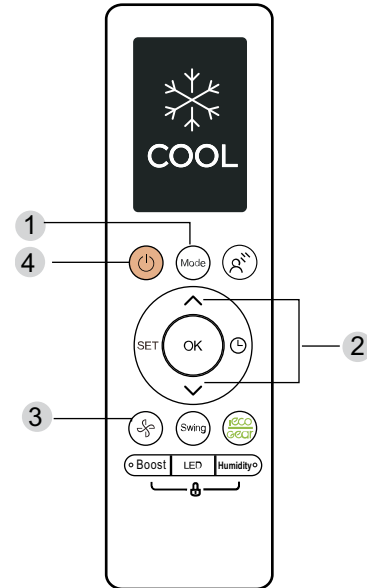


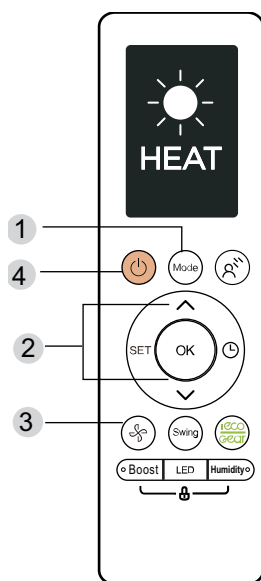
Fig. 4 — COOL Mode

1. Press **MODE** to select the **COOL** mode.
2. Set your desired temperature using **TEMP ^** or **TEMP v**.
3. Press **FAN** to select the fan speed in a range of AU*100%,
4. Press **ON/OFF** to start the unit.

Setting Temperature

The operating temperature range for units is 60-86°F (16-30°C)/(68-82 °F (20-28°C) (depends on model). You can increase or decrease the set temperature in 1°F (0.5°C) increments.

A220205

HEAT Mode**Fig. 5 —HEAT Mode**

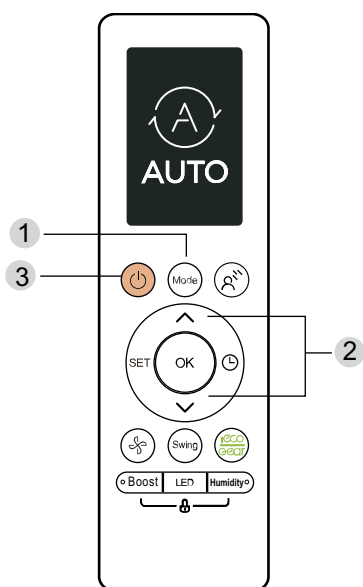
A220206

1. Press **MODE** to select the HEAT mode.
2. Set your desired temperature using **TEMP** $\wedge$ or **TEMP** $\vee$.
3. Press **FAN** to select the fan speed in the range of AU-100%.

NOTE: As the outdoor temperature drops, the performance of your unit's HEAT function may be affected. In such instances, we recommend using this air conditioner in conjunction with other heating appliances.

AUTO Mode

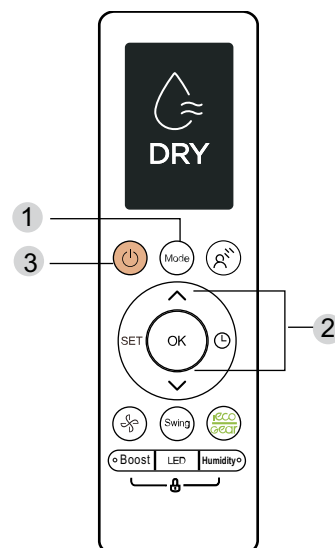
In **AUTO** mode, the unit automatically selects the **COOL**, **FAN**, or **HEAT** operation based on the set temperature.

**Fig. 6 —AUTO Mode**

A220208

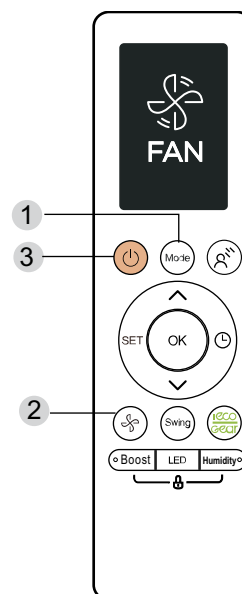
1. Press **MODE** to select **AUTO**.
2. Set your desired temperature using **TEMP** $\wedge$ or **TEMP** $\vee$.
3. Press **ON/OFF** to start the unit.

NOTE: FAN Speed can not be set in the AUTO mode.

DRY Mode**Fig. 7 —DRY Mode**

A220209

1. Press **MODE** to select the DRY mode.
2. Set your desired temperature using **TEMP** $\wedge$ or **TEMP** $\vee$.
3. Press **ON/OFF** to start the unit.

FAN Mode**Fig. 8 —FAN Mode**

A220211

1. Press **MODE** to select the FAN mode.
2. Press **FAN** to select the fan speed in the range of AU-0%.
3. Press **ON/OFF** to start the unit.

Remote Control Operation - Quick Start

NOTE: When transmitting a command from the remote control to the unit, be sure to point the control toward the right side of the unit. The unit confirms receipt of a command by sounding an audible beep.

1. Turn the unit on by pushing **ON/OFF**.

NOTE: If there is a preference for °C rather than °F (default), press and hold the **+** and **-** temperature set point buttons together for approximately 3 seconds.

2. Select the desired mode by pushing **MODE**.



Fig. 9 —Modes

A220212

3. Select the temperature set point by pointing the control toward the unit and pressing the increase/decrease temperature set point buttons until the desired temperature appears on screen.
4. Press **FAN** to select the desired fan speed.

NOTE: If the unit is operating in **DRY** or **AUTO** mode, the fan speed will be automatically set and cannot be adjusted.

Set the airflow direction. When the unit is turned on, the **Up-Down** airflow louvers default to the cooling or heating position. The user can adjust the horizontal **Up-Down** airflow louver position by pushing **DIRECT** or have continuous louver movement by pressing **SWING**. When the outside temperature is below 32°F (0°C), we strongly recommend maintaining power on the unit to ensure smooth ongoing performance.

To optimize unit performance, perform the following:

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

Set Function

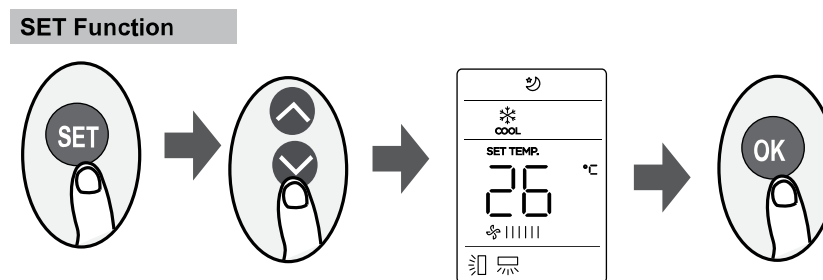


Fig. 10 —Set Function

A220035

1. Press **SET** to enter the **FUNCTION** setting.
2. Press **SET** or **TEMP** $\wedge$ or **TEMP** $\vee$ to select the desired function.
3. When the selected symbol flashes on the display, press **OK** to confirm.

To cancel the selected function, perform the same steps.

Press **SET** to scroll through the operation functions as follows:

Breeze away (☼) → Active clean (✂) → Fresh* (🌿) → Sleep (🌙) → Follow Me (👤) →
 AP mode* (🏠) → Breeze away....
 [*]: Model dependent

Fig. 11 — Functions

A220038

Breeze Away Function :

This feature avoids direct air flow from blowing on the room's occupants.

NOTE: This feature is available under COOL, FAN and DRY mode only.

Active Clean Function :

The **Active Clean Technology** washes away dust, mold, and grease that may cause odors when it adheres to the heat exchanger by automatically freezing and then rapidly thawing the frost. When this function is turned on, the indoor unit window displays "CL", after 20 to 45 minutes, the unit turns off automatically and cancels the **CLEAN** function.

FRESH Function :

When the **FRESH** function is initiated, the Ionizer/Plasma Dust Collector is energized and helps to remove pollen and impurities from the air.

SLEEP Function :

The **SLEEP** function is used to decrease energy use while you sleep (and do not need the same temperature settings to remain comfortable). This function can only be activated via remote controller. For the detail, see **SLEEP OPERATION** in the User's Manual.

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

FOLLOW ME Function :

The **FOLLOW ME** function enables the remote control to measure the temperature at its current location and sends this signal to the air conditioner every 3 minutes. When using the **AUTO**, **COOL** or **HEAT** modes, measuring the ambient temperature from the remote controller (instead from the indoor unit itself) allows the air conditioner to optimize the temperature around the occupants to ensure maximum comfort.

NOTE: Press and hold BOOST for seven seconds to start/stop the FOLLOW ME MEMORY feature.

- **IF the MEMORY feature is activated, "ON" appears on the display for 3 seconds.**
- **If the MEMORY feature stops, "OFF" appears on the display for 3 seconds.**

NOTE: When the FOLLOW ME Memory feature is activated, it will not be canceled by pressing ON/OFF, MODE or power failure to the indoor unit.

AP Function :

Select the **AP** function to configure the wireless network. To enter the **AP** mode, continuously press **LED** seven times for 10 seconds.

FREEZE Protection

With the unit in **HEAT** mode and the wireless remote pointed at the indoor unit, press the down arrow until the setpoint is 60°F (16°C). Press the down arrow two times within two seconds to activate the 46°F (8°C) heating function (heating set back). The unit will now operate at a set temperature of 46°F (8°C). The indoor unit display shows **FP**. No icon appears on the remote control.

NOTE: This function is only available in the HEATING mode.

Under this function, the unit heats at high fan speed until the space temperature is 46°F (8°C). This mode can also be deactivated by pressing **ON/OFF**, **SLEEP**, **MODE**, **FAN**, or either **TEMP** arrow.

FEATURES

Unit Parts

NOTE: Illustrations in the manual are for illustration purposes. The actual shape of your indoor unit may be different.

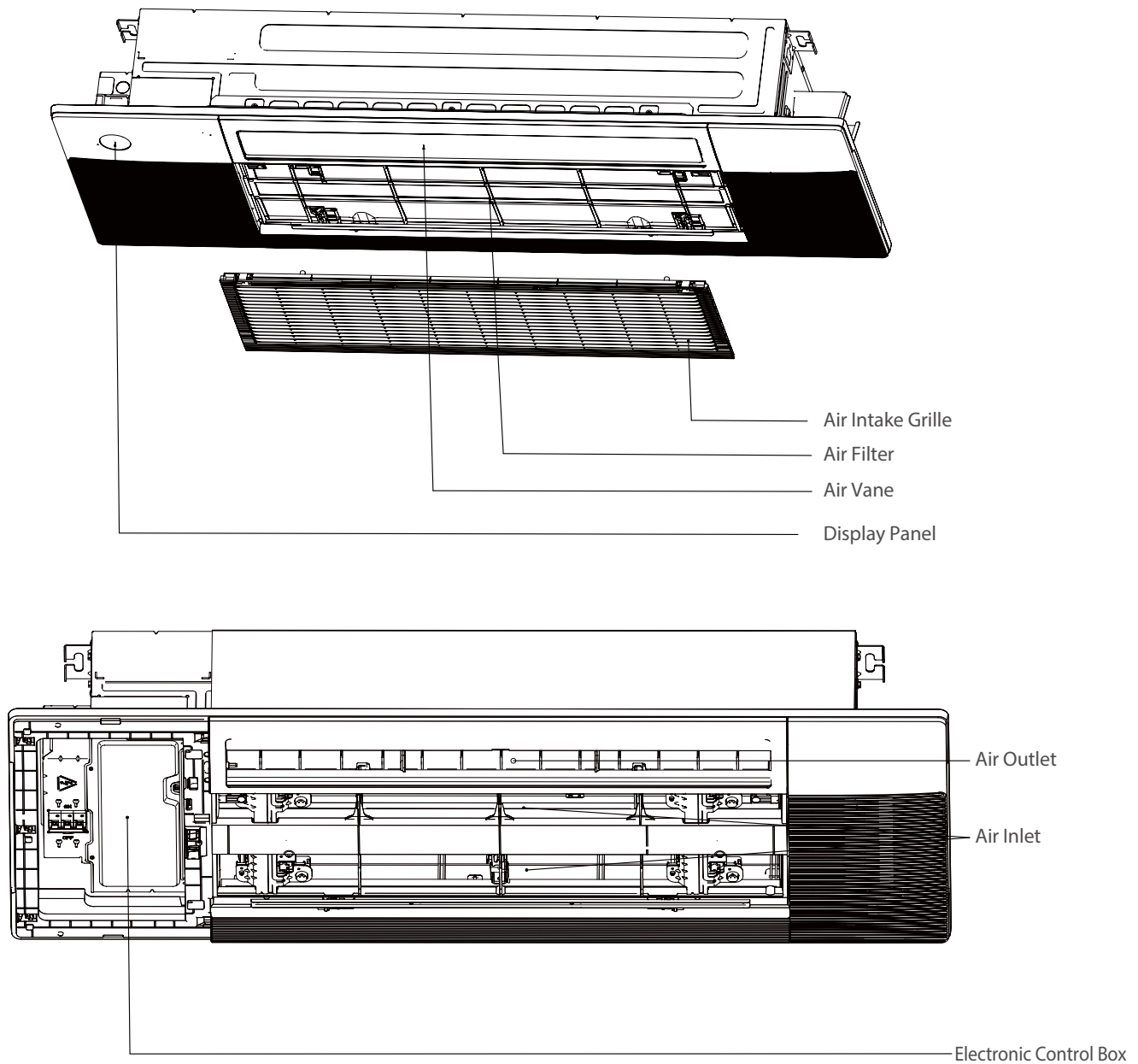
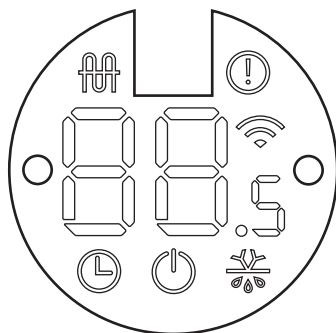


Fig. 12 — Unit Parts

Display Panel



" " when Electric heating feature is activated (Not available for this unit)

" " when TIMER is set.

" " when the unit is on.

" " when Wireless Control feature is activated

" " when pre-heating/defrost feature is activated.

"88.5" Displays temperature, operation feature and Error codes:

"FF" when 8°C heating feature is turned on

"CL" when Active Clean feature is turned on

"AP" when WiFi module enters AP mode (some units)

"FC" when Forced cooling feature is turned on

Fig. 13 — Display Panel

Operating Temperature

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

Table 1 — One Way Cassette Temperature Ranges

	COOL Mode	HEAT Mode	DRY Mode
Room Temperature	61°F-90°F (16°C-32°C)	32°F-86°F (0°C-30°C)	50°F-90°F (10°C-32°C)
Outdoor Temperature	-13°F-122°F (-25°C-50°C)	-13°F-75°F (-25°C-24°C)	32°F-122°F (0°C-50°C)

NOTE: ROOM RELATIVE HUMIDITY - If the air conditioner operates in excess of Table 1 ranges, the surface of the air conditioner may attract condensation. Set the vertical air flow louver to its maximum angle (vertically to the floor), and set to HIGH fan mode.

To optimize the unit's performance do the following:

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

FEATURES

Default Setting

When the air conditioner restarts after a power failure, the unit defaults to the factory settings (**AUTO** mode, **AUTO FAN**, 76°F(24°C)). This may cause inconsistencies on the remote control and unit panel. Use your remote control to update the status.

Auto-Restart

In case of power failure, the unit immediately stops. Once the power is restored, the indoor unit's operation light flashes. To restart the unit, press **ON/OFF** on the remote control. If the system has an **AUTO-RESTART** function, the unit restarts using the same settings.

Three-Minute Protection Feature

A protection feature prevents the unit from being activated for approximately 3 minutes when it restarts immediately after operation.

Louver Angle Memory Function

Some models are designed with a **LOUVER ANGLE MEMORY FUNCTION**. When the unit restarts after a power failure, the angle of the horizontal louvers automatically return to the previous position. The angle of the horizontal louver should not be set too short as condensation may form and drip into the unit. To reset the louver, press the **MANUAL** button, which will reset the horizontal louver settings.

Refrigerant Leak Detection System

(Multi-Zone Systems models do not have this function)

In the event of a refrigerant leak, the **LED DISPLAY** displays the refrigerant leak error code and the LED indicator light flashes.

Sleep Operation

The **SLEEP Operation** is used to decrease energy use while occupants are sleep and do not require the same temperature settings to stay comfortable. This function can only be activated via the remote control. The **SLEEP Operation** is not available in **FAN** or **DRY** mode.

Press **SLEEP** when you are ready to go to sleep. When in the **COOL** mode, the unit increases the temperature by 2°F(1°C) after 1 hour, and increases an additional 2°F(1°C) after another hour. When in **HEAT** mode, the unit decrease the temperature by 2°F(1°C) after 1 hour, and decreases an additional 2°F(1°C) after another hour. The **SLEEP Operation** stops after 8 hours and the system keeps running.

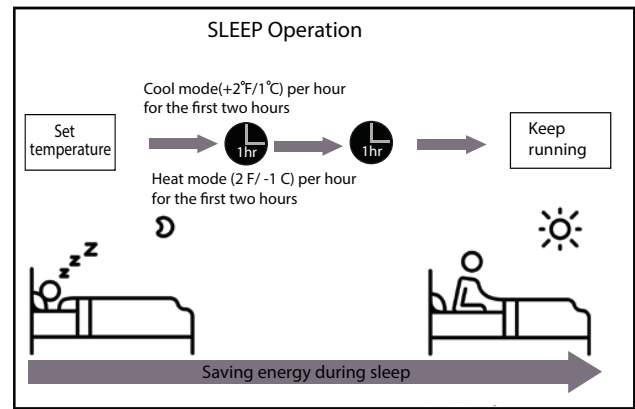


Fig. 14 — SLEEP Operation

Active Clean Function

NOTE: (Multi-Zone Systems models do not have this function)

The **Active Clean Technology** washes away dust when it adheres to the heat exchanger by automatically freezing and then rapidly thawing the frost. A "pi-pi" sound will be heard. The **Active Clean** operation is used to produce more condensed water to improve the cleaning effect, and the cold air will blow. After cleaning, the internal wind wheel keeps operating with hot air to blow-dry the evaporator, thus keeping the inside clean.

When this function is turned on, the indoor unit display window appears "CL", after 20 to 130 minutes, the unit turn off automatically and cancels the **Active Clean** function. For some units, the unit starts the high temperature cleaning process, and the air outlet temperature is very high (keep away from it). This leads to the rising of the room temperature.

Breeze Away

This feature avoids direct air flow blowing on the body.

Energy Saving Tips

- **DO NOT** set the unit to excessive temperature levels.
- While cooling, close the curtains to avoid direct sunlight.
- Doors and windows should be kept closed to keep cool or warm air in the room.
- **DO NOT** place objects near the air inlet and outlet of the unit.
- Clean the air filter every two weeks.
- Adjust louvers properly and avoid direct airflow.
- Closing curtains during heating also helps keep the heat in.
- Doors and windows should be kept closed.

CARE AND MAINTAINANCE

Cleaning Your Indoor Unit



WARNING

BEFORE CLEANING OR MAINTAINENCE

Remember to disconnect the power before cleaning or performing maintenance except when cleaning the filter. Turn off the indoor unit's circuit breaker.

Contact an authorized service technician for repair or maintenance. Improper repair and maintenance may cause water leakage, electrical shock, or fire, and may void your warranty.

DO NOT substitute a blown fuse with a higher or lower amperage rating fuse as this may cause circuit damage or an electrical fire. Ensure the drain hose is set up according to the instructions. Failure to do so could cause leakage and result in personal property damage, fire and electric shock.

Ensure all wires are connected properly. Failure to connect wires according to instructions can result in electrical shock or fire.



CAUTION

Only use a soft, dry cloth to wipe the unit clean. If the unit is especially dirty, you can use a cloth soaked in warm water to wipe it clean.

DO NOT use chemicals or chemically treated cloths to clean the unit.

DO NOT use benzene, paint thinner, polishing powder or other solvents to clean the unit.

They can cause the plastic surface to crack or deform.

DO NOT use water hotter than 104°F(40°C) to clean the front panel. This can cause the panel to deform or become discolored.

DO NOT wash the unit under running water. Doing so creates an electrical hazard. Clean the unit using a damp, lint-free cloth and neutral detergent. Dry the unit with a dry, lint-free cloth.



WARNING

Do Not Remove or Clean the Filter Yourself

Removing and cleaning the filter can be dangerous. Removal and maintenance must be performed by a certified technician.

Cleaning the Air Filter

The filter prevents dust and other particles from entering the indoor unit. Dust buildup can reduce the efficiency of the air conditioner. For optimum efficiency, clean the air filter every two weeks or more frequently if you live in a dusty area. Replace the filter with a new one if it's heavily clogged and cannot be cleaned.

NOTE: In households with animals, you will have to periodically wipe down the grille to prevent animal hair from blocking airflow.

1. Press the circular position to open the two screw covers then remove the two screws.

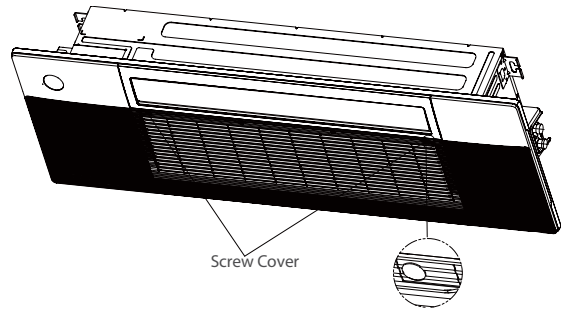


Fig. 15 — Remove the Screw Covers

2. Hold and open the air grille, then remove the air filter.

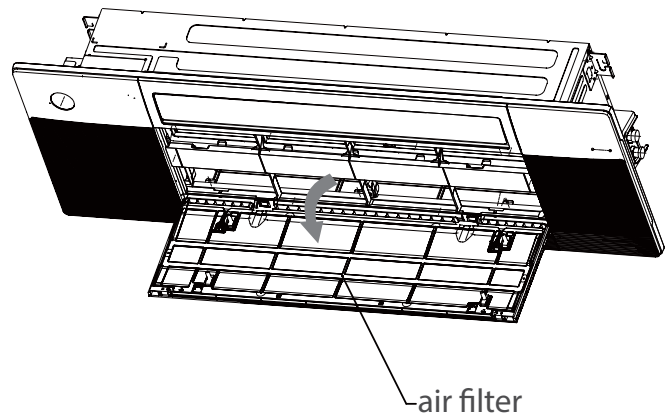


Fig. 16 — Remove the Air Filter

3. Clean the air filter.

Dust will accumulate on the filter along with the unit operation, and needs to be removed from the filter or the unit will not function effectively. Clean the filter every two weeks when if use the unit regularly. Clean the air filter with a vacuum cleaner or water.

- a. The air intake side should face up when using a vacuum cleaner.

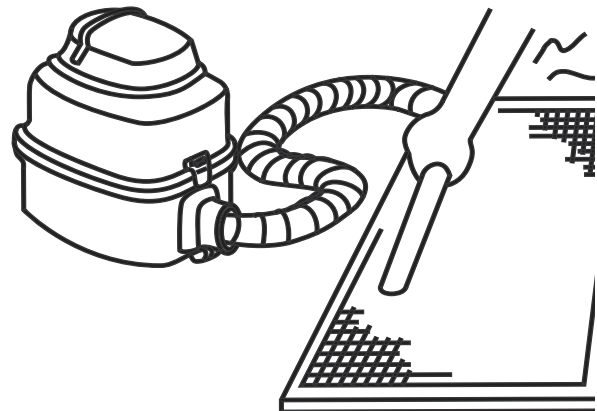


Fig. 17 — Use a Vacuum Cleaner

- b. The air intake side should face down when using clean water.

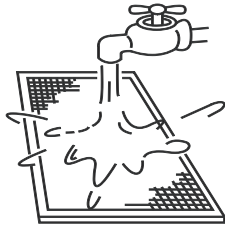


Fig. 18 — Use clean water

For excessive dust, use a soft brush and natural detergent to clean it and dry in a cool place.



CAUTION

DO NOT dry out the air filter under direct sunlight or with heat/fire. The air filter should be installed before the unit body installation.

4. Re-install the air filter.
5. Press **UP** on the remote controller to reset the air grille. (applicable to model A). Re-install the air grille by securing the two screws and close the two screw covers (applicable to model B).

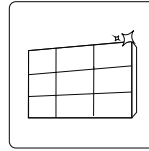


CAUTION

Before changing the filter or cleaning, turn the unit off. When removing the filter, **DO NOT** touch the metal parts in the unit. The sharp metal edges can cause injury. **DO NOT** use water to clean the inside of the indoor unit. This can destroy the insulation and cause an electrical shock. **DO NOT** expose the filter to direct sunlight when drying. This can shrink the filter. Any maintenance and cleaning of the outdoor unit should be performed by an authorized dealer or a licensed service provider. Any unit repairs should be performed by an authorized dealer or a licensed service provider. When the air grille is rising, do not hinder the grille from rising with your hands or other objects. **DO NOT** pull the wire rope, if necessary, contact the local customer service team.

Maintenance - Long Periods of Non-Use

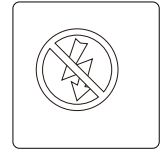
If you plan not to use your unit for an extended period of time, do the following.



Clean all filters



Turn on FAN function until unit dries out completely

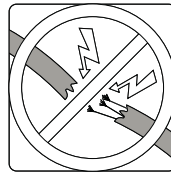


Turn off the unit and disconnect the power

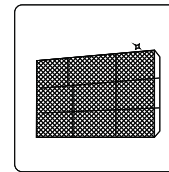
Fig. 19 — Maintenance - Long Periods of Non-Use

Maintenance - Pre Season Inspection

After long periods of non-use, or before periods of frequent use, do the following.



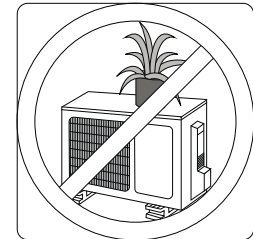
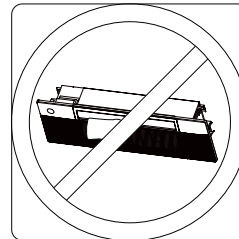
Check for damaged wires



Clean all filters



Check for leaks



Make sure nothing is blocking all air inlets and outlets

Fig. 20 — Maintenance - Pre Season Inspection

TROUBLESHOOTING



CAUTION

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

The power cord is damaged or abnormally warm.

You smell a burning odor.

The unit emits loud or abnormal sounds.

A power fuse blows or the circuit breaker frequently trips.

Water or other objects fall into or out of the unit.

DO NOT attempt to fix these issues yourself. Contact an authorized service provider immediately.

Common Issues

The problems listed in Table 2 are not malfunctions and in most cases will not require repairs.

Table 2 — Common Issues

ISSUE	POSSIBLE CAUSES
Unit does not turn on when pressing ON/OFF	The unit cannot be restarted within three minutes of being turned off
	Cooling and Heating Models: If the Operation light and PRE-DEF (Pre-heating/Defrost) indicators are on, the outdoor temperature is too cold and the unit's anti-cold wind is activated to defrost the unit.
	In Cooling-only Models: If the Fan Only indicator is on, the outdoor temperature is too cold and the unit's anti-freeze protection is activated to defrost the unit.
The unit changes from COOL/HEAT mode to FAN mode	The unit may change its setting to prevent frost from forming on the unit. Once the temperature increases, the unit will start operating in the previously selected mode again.
	The set temperature has been reached, at which point the unit turns off the compressor. The unit will continue operating when the temperature fluctuates again.
The indoor unit emits white mist	In humid regions, a large temperature difference between the room's air and the conditioned air can cause white mist.
Both the indoor and outdoor units emit white mist	When the unit restarts in the HEAT mode after defrosting, white mist may emit 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 noise	Low hissing sound during operation: This is normal and is caused by refrigerant gas flowing through both indoor and outdoor units.
	Low hissing sound when the system starts, has just stopped running, or is defrosting: This noise is normal and is caused by the refrigerant gas stopping or changing direction.
	Squeaking sound: Normal expansion and contraction of plastic and metal parts caused by temperature changes during operation can cause squeaking noises.
The outdoor unit makes noises	The unit makes different sounds based on its current operating mode.
Dust emits from either the indoor or outdoor unit	The unit may accumulate dust during extended periods of non-use, which emits when the unit is turned on. This can be mitigated by covering the unit during long periods of inactivity.
The unit emits a bad odor	The unit may absorb odors from the environment (such as furniture, cooking, cigarettes, etc.) which will be emitted during operations.
	The unit's filters have become moldy and should be cleaned.
The outdoor unit's fan does not operate	During operation, the fan speed is controlled to optimize product operation.

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

TROUBLESHOOTING (CONT)

When trouble occurs, check the following points before contacting a repair company.

Table 3 — Troubleshooting

PROBLEM	POSSIBLE CAUSES	SOLUTION
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	Ensure all doors and windows are closed while operating the unit
	Excessive heat is generated by sunlight	Close windows and curtains during periods of high heat or bright sunshine
	Too many sources of heat in the room (people, computers, electronics, etc.)	Reduce amount of heat sources
	Low refrigerant due to leak or long-term use	Check for leaks, re-seal if necessary and top off refrigerant
The unit is not working	Power failure	Wait for the power to be restored
	The power is turned o	Turn on the power
	The fuse is burned out	Replace the fuse
	The unit's 3-minute protection has been activated	Wait three minutes after restarting the unit
	Timer is activated	Turn timer off
The unit starts and stops frequently	There is too much or too little refrigerant in the system	Check for leaks and recharge the system with refrigerant.
	Incompressible gas or moisture has entered the system.	Evacuate and recharge the system with 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 manostat to regulate the voltage
Poor heating performance	Cold air is entering through doors and windows	Ensure 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