



AIR CONDITIONER

OWNER'S MANUAL AHE08 AHE12

IMPORTANT SAFETY INFORMATION

READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE

- ▲WARNING** For your safety, the information in this manual must be followed to minimize the risk of fire, electric shock or personal injury.
- Use this appliance only for its intended purpose as described in this Owner's Manual.
 - This air conditioner must be properly installed in accordance with the Installation Instructions before it is used.
 - Never unplug your air conditioner by pulling on the power cord. Always grip plug firmly and pull straight out from the receptacle.
 - Replace immediately all electric service cords that have become frayed or otherwise damaged. A damaged power supply cord must be replaced with a new power supply cord obtained from the manufacturer and not repaired. Do not use a cord that shows cracks or abrasion damage along its length or at either the plug or connector end.
 - Turn the unit OFF and unplug your air conditioner before making any repairs or cleaning.
- NOTE:** We strongly recommend that any servicing be performed by a qualified individual.
- For your safety...do not store or use combustible materials, gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.
 - All air conditioners contain refrigerants, which under federal law must be removed prior to product disposal. If you are getting rid of an old product with refrigerants, check with the company handling disposal about what to do.
 - If the receptacle does not match the plug, the receptacle must be changed out by a qualified electrician.
 - These R410A air conditioning systems require contractors and technicians to use tools, equipment and safety standards approved for use with this refrigerant. DO NOT use equipment certified for R22 refrigerant only.

▲WARNING USE OF EXTENSION CORDS

RISK OF FIRE. Could cause serious injury or death.

HOW TO CONNECT ELECTRICITY

Do not, under any circumstances, cut or remove the third (ground) prong from the power cord. For personal safety, this appliance must be properly grounded.

DO NOT use an adapter plug with this appliance.

The power cord of this appliance is equipped with a 3-prong (grounding) plug which mates with a standard 3-prong (grounding) wall outlet to minimize the possibility of electric shock hazard from this appliance.

Power cord includes a current interrupter device. A test and reset button is provided on the plug case. The device should be tested on a periodic basis by first pressing the **TEST** button and then the **RESET** button while plugged into the outlet. If the **TEST** button does not trip or if the **RESET** button will not stay engaged, discontinue use of the air conditioner and contact a qualified service technician.

Have the wall outlet and circuit checked by a qualified electrician to make sure the outlet is properly grounded.

Where a 2-prong wall outlet is encountered, it is your personal responsibility and obligation to have it replaced with a properly grounded 3-prong wall outlet.

The air conditioner should always be plugged into its own individual electrical outlet which has a voltage rating that matches the rating plate.

This provides the best performance and also prevents overloading house wiring circuits which could cause a fire hazard from overheated wires.

See the Installation Instructions, **Electrical Requirements** section for specific electrical connection requirements.

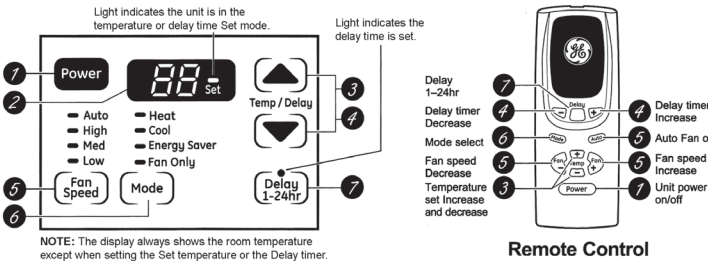
READ AND SAVE THESE INSTRUCTIONS

USING THE AIR CONDITIONER

Controls

Features and appearance will vary.

Lights next to the touch pads on the air conditioner control panel indicate the selected settings.



Air Conditioner Controls

Controls

- Power Pad**
Turns air conditioner on and off. When turned on, the display will show the room temperature.
- Display**
Shows the room temperature or time remaining on the Delay timer. Shows the **Set** temperature while setting the temperature in **Heat**, **Cool** or **Energy Saver** modes.
- Temp Increase + / Decrease – Pads**
Use to set temperature when in **Heat**, **Cool** or **Energy Saver** mode. The **Set** light will turn on while setting.
- Delay Increase + / Decrease – Pads**
Each touch of the Increase ▲ / Decrease ▼ pads on the unit or the Increase + / Decrease – pads on the remote control will set the delay time when using the **Delay 1-24hr** timer. The **Set** light will turn on while setting.
- Fan Speed Pads**
Use to set the fan speed to **Low**, **Med**, **High** or **Auto** on the unit. **NOTE:** On the remote control, use the fan speed Increase + / Decrease – pads to set the fan speeds to **Low**, **Med** or **High**. Use the **Auto** pad to turn **Auto** fan on.
- Mode Pad**
Use to set the air conditioner to **Heat**, **Cool**, **Energy Saver** or **Fan Only** mode.

7. Delay Pad

Delay ON—When the air conditioner is off, it can be set to automatically come on in 1 to 24 hours at its previous mode and fan settings.

Delay OFF—When the air conditioner is on, it can be set to automatically turn off in 1 to 24 hours.

How to set:

Press the **Delay 1-24hr** pad on the unit or the **Delay** pad on the remote control. Each touch of the Increase ▲ / Decrease ▼ pads on the unit or the Increase + / Decrease – pads on the remote control will set the timer in 1-hour intervals. The **Set** light will turn on while setting.

To review the remaining time on the **Delay 1-24hr** timer, press the **Delay 1-24hr** pad on the unit or the **Delay** pad on the remote control. Use the Increase ▲ / Decrease ▼ pads on the unit or the Increase + / Decrease – pads on the remote control to set a new time if desired.

To cancel the timer, press the **Delay 1-24hr** pad until the light on the **Delay 1-24hr** pad goes off.

The actual descriptions of control panel and their locations may vary, depending on the model.

NOTE: The default temperature reading on the display is degree Fahrenheit (°F). To change the display to degree Celsius (°C), press the Temp Increase ▲ and Temp Decrease ▼ buttons together and hold for 3 seconds. Repeat the process to change back to degree Fahrenheit (°F).

Using the Air Conditioner

Remote Control

- To ensure proper operation, aim the remote control at the signal receiver on the air conditioner.
- Make sure batteries are fresh and installed correctly as indicated on the remote control.
- Make sure nothing is between the air conditioner and the remote control that could block the signal.
- Remote contains a magnet allowing it to attach to metal surfaces.
- The remote control signal has a range of up to 20 feet.

Heat Mode

Use the **Heat** mode at **Low**, **Med**, **High** or **Auto Fan Speed** for heating. Use the Temperature Increase ▲ / Decrease ▼ pads to set the desired temperature between 61°F and 86°F in 1°F increments.

An electronic thermostat is used to maintain the room temperature. The heater will cycle on and off to keep the room at the set level of comfort.

Cool Mode

Use the **Cool** mode at **Low**, **Med**, **High** or **Auto Fan Speed** for cooling. Use the Temperature Increase ▲ / Decrease ▼ pads to set the desired temperature between 61°F and 86°F in 1°F increments.

An electronic thermostat is used to maintain the room temperature. The compressor will cycle on and off to keep the room at the set level of comfort. Set the thermostat at a lower number and the indoor air will become cooler. Set the thermostat at a higher number and the indoor air will become warmer.

NOTE: If the air conditioner is off and is then turned on while set to a **Cool** setting or if turned from a fan setting to a **Cool** setting, it may take approximately 3 minutes for the compressor to start and cooling to begin.

Cooling Descriptions

For Normal Cooling—Select the **Cool** mode and **High** or **Med** fan with a middle set temperature.

For Maximum Cooling—Select the **Cool** mode and **High** fan with a lower set temperature.

For Quieter and Nighttime Cooling—Select the **Cool** mode and **Low** fan with a middle set temperature.

Energy Saver Mode

Controls the fan.

ON—The fan will cycle on and off with the compressor. This results in wider variations of room temperature and humidity. Normally used when the room is unoccupied.

NOTE: The fan may continue to run for a short time after the compressor cycles off.

OFF—The fan runs all the time, while the compressor cycles on and off.

Fan Only Mode

Use the **Fan Only Mode** at **Low**, **Med** or **High** fan speed to provide air circulation and filtering without cooling. Since fan-only settings do not provide cooling, a Set temperature cannot be entered. The room temperature will appear in the display.

NOTE: Auto Fan Speed cannot be used when in the **Fan Only Mode**.

Auto Fan Mode

Set to **Auto** fan speed for the fan speed to automatically set to the speed needed to provide optimum comfort settings with the set temperature.

If the room needs more cooling, the fan speed will automatically increase. If the room needs less cooling, the fan speed will automatically decrease.

NOTE: Auto Fan Speed cannot be used when in the **Fan Only Mode**.

Control Display On and Off

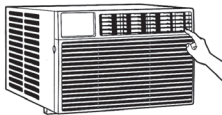
To reduce brightness during sleeping hours, this air conditioner control display has an automatic off feature where the control display will turn off completely after 2 minute of inactivity. To illuminate the control interface, press any button on the control display or remote control. The control display will illuminate all previously illuminated LED's. The control interface will now respond to any prescribed button press after it is illuminated.

Power Outage Recovery Feature

In the case of a power outage or interruption, the unit will automatically restart in the settings last used after the power is restored. If the **Delay 1-24hr** feature was set, it will resume countdown. You may need to set a new time if desired.

Air Direction

Use the lever to adjust the air direction left and right only.



Care and Cleaning

Grille and Case

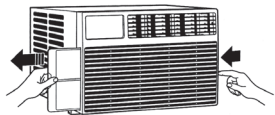
Turn the air conditioner off and remove the plug from the wall outlet before cleaning.

To clean, use water and a mild detergent. Do not use bleach or abrasives.

Air Filter

The air filter behind the front grille should be checked and cleaned at least every 30 days or more often if necessary.

CAUTION DO NOT operate the air conditioner without a filter because dirt and lint will clog it and reduce performance.



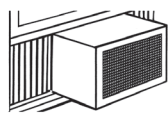
To remove:

Push on one side of the filter edge and pull it out the other side.

Clean the filter with warm, soapy water. Rinse and let the filter dry before replacing it. Do not clean the filter in a dishwasher.

Outdoor Coils

The coils on the outdoor side of the air conditioner should be checked regularly. If they are clogged with dirt or soot, they may be professionally cleaned.



How to Insert the Battery in the Remote Control (Batteries Not Supplied)

- Remove the battery cover by sliding it according to the arrow direction.
- Insert new batteries, making sure that the (+) and (–) of battery are installed correctly.
- Reattach the cover by sliding it back into position.

NOTES:

- Use 2 "AAA" (1.5 volt) batteries. Do not use rechargeable batteries.
- Remove the batteries from the remote control if the system is not going to be used for a long time.
- Do not mix old and new batteries. Do not mix alkaline, standard (carbon-zinc) or rechargeable (ni-cad, ni-mh, etc) batteries.

Installation Instructions

BEFORE YOU BEGIN

Read these instructions completely and carefully.

- IMPORTANT** — Save these instructions for local inspector's use.
- IMPORTANT** — Observe all governing codes and ordinances.
- Note to Installer** – Be sure to leave these instructions with the Consumer.
- Note to Consumer** – Keep these instructions for future reference.
- Skill level** – Installation of this appliance requires basic mechanical skills.
- Completion time** – Approximately 1 hour
- We recommend that two people install this product.
- Proper installation is the responsibility of the installer.
- Product failure due to improper installation is not covered under the Warranty.
- You **MUST** use all supplied parts and use proper installation procedures as described in these instructions when installing this air conditioner.

CAUTION If the sill support bolts do not contact the window sill, or if you have a window without a sill, you must order accessory kit **RAK87** to properly install this air conditioner. Call a service center.

ELECTRICAL REQUIREMENTS

Some models require a 115/120-volt AC, 60-Hz grounded outlet protected with a 15-amp time-delay fuse or circuit breaker.

The 3-prong grounding plug minimizes the possibility of electric shock hazard. If the wall outlet you plan to use is only a 2-prong outlet, it is your responsibility to have it replaced with a properly grounded 3-prong wall outlet.

Some models require 230/208-volt AC, protected with a time-delay fuse or circuit breaker. These models should be installed on their own single branch circuit for best performance and to prevent overloading house or apartment wiring circuits, which could cause a possible fire hazard from overheating wires.

CAUTION

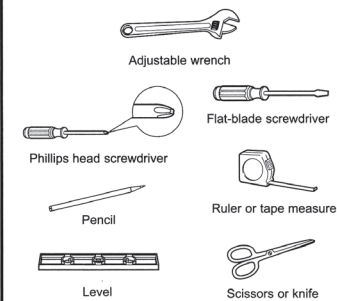
Do not, under any circumstances, cut or remove the third (ground) prong from the power cord.

Do not change the plug on the power cord of this air conditioner.

Aluminum house wiring may present special problems—consult a qualified electrician.

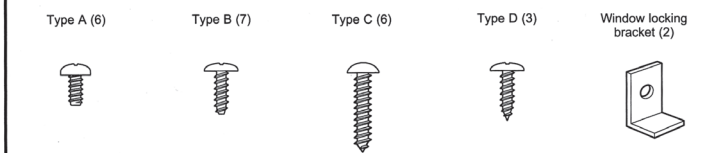
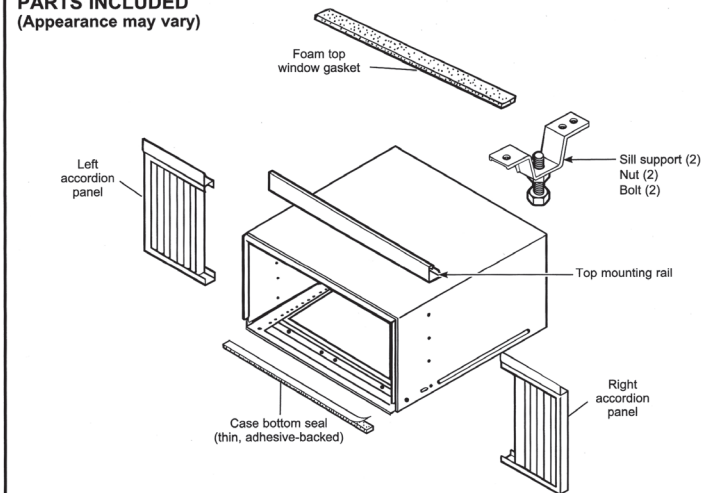
Power cord includes a current interrupter device. A test and reset button is provided on the plug case. The device should be tested on a periodic basis by first pressing the **TEST** button and then the **RESET** button while plugged into the outlet. If the **TEST** button does not trip or if the **RESET** button will not stay engaged, discontinue use of the air conditioner and contact a qualified service technician.

TOOLS YOU WILL NEED (NOT SUPPLIED)



Installation Instructions

PARTS INCLUDED (Appearance may vary)



Accessory type, appearance and quantity may vary depending on the model.

Installation Instructions

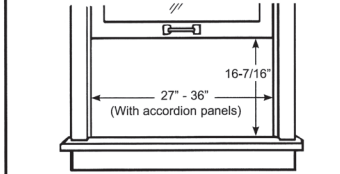
1. WINDOW REQUIREMENTS

- These instructions are for a standard double-hung window. You will need to modify them for other types of windows.

CAUTION If the sill support bolts do not contact the window sill, or if you have a window without a sill, you must order accessory kit **RAK87** to properly install this air conditioner. Call a service center.

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- The air conditioner can be installed without the accordion panels if needed to fit in a narrow window. See the window opening dimensions.
- All supporting parts must be secured to firm wood, masonry or metal.
- The electrical outlet must be within reach of the power cord.



2. STORM WINDOW REQUIREMENTS

A storm window frame will not allow the air conditioner to tilt toward the outside, and will keep it from draining properly. To adjust for this, attach a piece of wood to the sill.

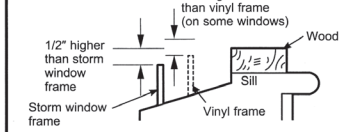
WOOD PIECES

WIDTH: 2"

LENGTH: Long enough to fit inside the window frame.

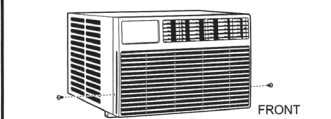
THICKNESS: To determine the thickness, place a piece of wood on the sill to make it 1/2" higher than the top of the storm window frame or the vinyl frame.

Attach securely with nails or screws provided by the installer.



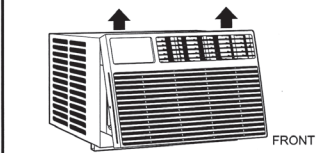
3. REMOVE THE AIR CONDITIONER FROM THE CASE

A. Remove and save the 2 screws from the lower sides of the front grille.



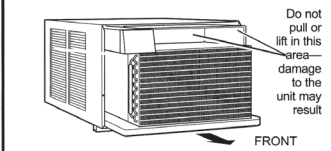
B. Grasp the lower corners of the grille while pressing in on the case sides with your finger tips. Pull out to release and lift it up.

NOTE: Do not pull the bottom edge toward you more than 3" or you may damage the tabs of the grille.



C. When the front grille is removed the control panel will still be attached by a harness.

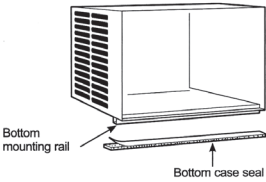
D. Slide the air conditioner from the case by gripping the base pan handle and pulling forward while bracing the case. Do not pull or lift on the styrofoam discharge area.



Installation Instructions

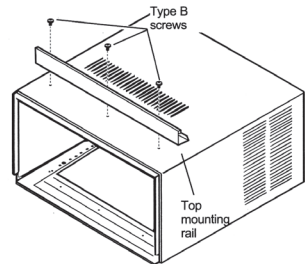
4. INSTALL THE BOTTOM CASE SEAL

- Peel the backing from the bottom case seal and attach it along the bottom of the case in front of the bottom mounting rail.



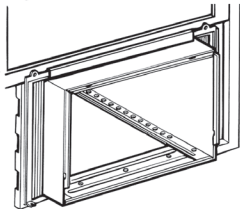
5. INSTALL THE TOP MOUNTING RAIL ONTO THE CASE

- Attach the top mounting rail onto the top of the case with 3 Type B screws. Press firmly to drive the screws into the gasket and through the top mounting rail.



7. INSTALL CASE IN THE WINDOW

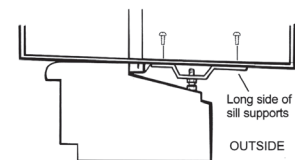
- Open the window and mark the centerline of the window stool.
- Carefully place the case on the window stool and align the center mark on the bottom front with the centerline of the stool.
- Pull the window down behind the top mounting rail.



NOTE: Do not shut the window so tightly that movement of the accordion panels is restricted.

- Select the position that will place the sill supports near the outermost point on the sill. Place the short side of the sill supports, on the case bottom, toward the window. Attach the sill supports to the case track hole in relation to the selected position using 2 Type B screws in each support.

CAUTION Do not install this air conditioner in a window if the bolts do not contact the window sill.

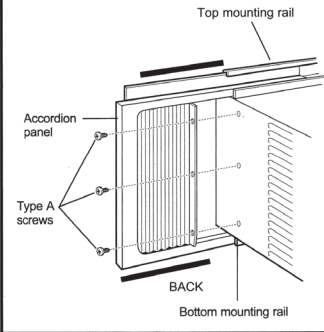


- Adjust the bolt and the nut in each support so that the case is installed with a slight tilt to the outside. Use a level; no more than 1/2 bubble will be the correct case slant to the outside.

CAUTION If the sill support bolts do not contact the window sill, or if you have a window without a sill, you must order accessory kit **RAK87** to properly install this air conditioner. Call a service center.

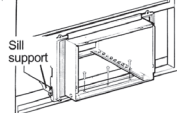
6. INSTALL THE SIDE ACCORDION PANELS

- Slide the left and right accordion panels into the top and bottom mounting rails.
- Attach the accordion panels to the case using 3 Type A screws on each side.

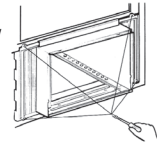


7. INSTALL CASE IN THE WINDOW (CONT.)

- Secure the case to the window stool by using 3 Type D screws.

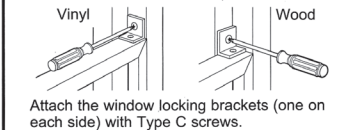


- Pull the accordion panels to each window sash track. Attach them on each side to the window sash and the window stool using 4 Type C screws.



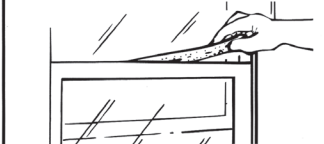
8. SECURE THE CASE IN THE WINDOW AND INSTALL THE FOAM TOP WINDOW GASKET

- CAUTION** To prevent broken glass or damage to windows, on vinyl or other similarly constructed windows, attach the locking brackets to the window side jams.



- Attach the window locking brackets (one on each side) with Type C screws.

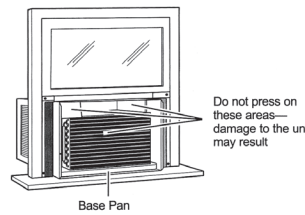
- Cut the foam top window gasket to the window width.



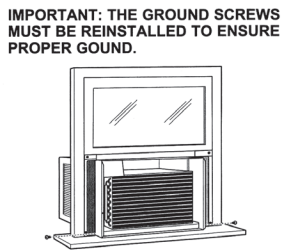
NOTE: If the gasket supplied does not fit your window, obtain appropriate material locally to provide a proper installation seal.

9. INSTALL THE AIR CONDITIONER IN THE CASE

- Slide the air conditioner into the case by the base pan. Do not push on the controls, styrofoam air discharge housing or the finned coils. Make sure the air conditioner is firmly seated.



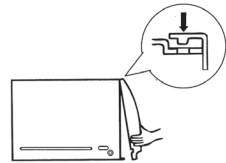
- Replace the 2 screws removed earlier, one on each side of the case.



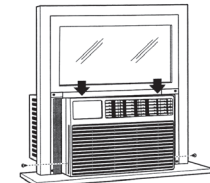
IMPORTANT: THE GROUND SCREWS MUST BE REINSTALLED TO ENSURE PROPER GROUND.

9. INSTALL THE AIR CONDITIONER IN THE CASE (CONT.)

- Attach the front grille to the case by inserting the tabs on the grille into the slots on the front top of the case. Push the grille in.



- Secure the front grille to the case by replacing the 2 screws removed earlier. Press on the top of the grille to help with side screw installation.



- Connect power.

Through-the-Wall Installation Instructions—Optional

The case may be installed through-the-wall in both existing and new construction. Read completely, then follow step-by-step.

NOTE: Obtain all materials locally for mounting the air conditioner through-the-wall.

1. IMPORTANT

Through-the-wall installation is not appropriate if any of the side or top louvers in the case will be obstructed by the wall.

All side and top louvers in the case must project on the outdoor side of the wall.

The room side of the case must project into the room far enough to maximize the balance of the unit.

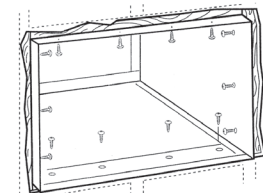
The case must be installed level from side-to-side and with a slight tilt from front to rear. Use a level; no more than a 1/2 bubble will be the correct case slant to the outside.

Lintel angle is required to support bricks or blocks above opening.

Flashing is required and should extend the length of the opening to ensure no inside cavity leakage occurs.

- Remove the air conditioner from the case. For specific instruction, refer to the Window Installation Instructions.

- Make certain that a wall receptacle is available close to the hole location or make arrangements to install a receptacle.



- Place the case in the wall opening and place wood support strips between the case bottom and the flashing on both sides of the bottom rail. They should be the same height as the bottom rail and the same length as the wall opening.

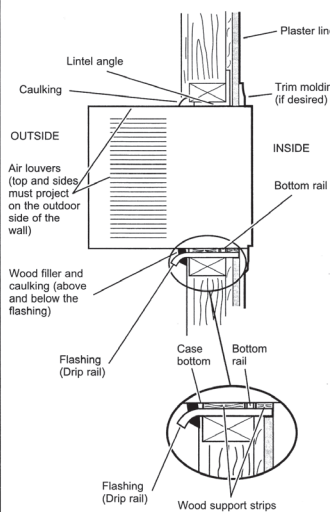
1. IMPORTANT (cont.)

- Secure with 14 wood screws anchored at least an inch into the wall support structure.

NOTE: Drill pilot holes, if necessary, for proper installation. If the frame is oversized, use shims to prevent case distortion.

2. FINISH THE WALL OPENING

- Caulk all four sides on the outdoor side of the case to prevent moisture from getting through to the interior wall. Use of flashing (drip rail) will further prevent water from dripping inside the wall and down the outside of the building.



- Place the air conditioner into the case. For specific instruction, refer to the Window Installation Instructions.

Troubleshooting Tips...Before you call for service

Save time and money! Review the charts on the following pages first and you may not need to call for service.

Problem	Possible Causes	What To Do
Air conditioner does not start	The air conditioner is unplugged	Make sure the air conditioner plug is pushed completely into the outlet.
	The fuse is blown/circuit breaker is tripped	Check the house fuse/circuit breaker box and replace the fuse or reset the breaker.
	Power failure	The unit will automatically re-start in the settings last used after the power is restored. There is a protective time delay (approximately 3 minutes) to prevent tripping of the compressor overload. For this reason, the unit may not start normal cooling or heating for 3 minutes after it is turned back on.
	The current interrupter device is tripped	Press the RESET button located on the power cord plug. If the RESET button will not stay engaged, discontinue use of the air conditioner and contact a qualified service technician.
Air conditioner freezing up	Ice blocks the air flow and stops the air conditioner from cooling the room	Set the mode control at Fan Only or Hi Cool with the temp control at a warmer setting.
Air conditioner does not cool as it should	Airflow is restricted	Make sure there are no curtains, blinds or furniture blocking the front of the air conditioner.
	The temp control may not be set correctly	In the Cool mode, press the Decrease pad.
	The air filter is dirty	Clean the filter at least every 30 days. See the Operating Instructions section.
	The room may have been hot	When the air conditioner is first turned on you need to allow time for the room to cool down.
	Cold air is escaping	Check for open furnace floor registers and cold air returns. Set the air conditioner's vent to the closed position.
	Cooling coils have iced up	See "Air conditioner freezing up" above.
Air conditioner does not warm as it should	Airflow is restricted	Make sure there are no curtains, blinds or furniture blocking the front of the air conditioner.
	The temp control may not be set low enough	In the Heat mode, press the Increase pad.
	The air filter is dirty	Clean the filter at least every 30 days. See the Operating Instructions section.
	The room may have been cold	When the air conditioner is first turned on, you need to allow time for the room to warm up.
	Warm air is escaping	Check for open furnace floor registers and cold air returns.
The remote control is not working	The batteries are inserted incorrectly.	Check the position of the batteries. They should be inserted in the opposite (+) and (–) direction.
	The batteries may be dead.	Replace the batteries.
Water drips outside	Excessively hot and humid weather	This is normal.
Water drips indoors	The air conditioner is not tilted to the outside	For proper water disposal, make sure the air conditioner slants slightly from the case front to the rear.
Water collects in base pan	Moisture is removed from indoor air and drains into rear of a cabinet where a fan blows it against the outdoor condenser coil	This is normal for a short period in areas with little humidity; normal for a longer period in very humid areas.

Normal Operating Sounds

- You may hear a pinging noise caused by water being picked up and thrown against the condenser on rainy days or when the humidity is high. This design feature helps remove moisture and improve efficiency.
- You may hear the thermostat click when the compressor cycles on and off.
- Water will collect in the base pan during high humidity or on rainy days. The water may overflow and drip from the outdoor side of the unit.
- The fan may run even when the compressor does not.



804109707



PRINTED IN MEXICO
SC:17.01.2020
OBPN:66129926921
SHNMDL: AHE08AX_B
TAB / Elbrd:J.E.



IMPORTANT INFORMATION

Do not drill holes in the product. Drilling holes in the product can cause the air conditioner to not function properly.