



WINDOW AIR CONDITIONER

USER MANUAL

FOR MODEL:

2PAHP12002
WITH HEAT PUMP



Before using your air conditioner, please read this manual carefully and keep it for future reference, along with your receipt.

CONSUMER PRODUCT INFORMATION

For your own records, please attach a copy of your sales receipt to this manual and complete the following:

Model Number: _____ Serial Number: _____

Purchase Date: _____ Store Purchased: _____

Installation Date: _____ Installation Co.: _____

Installer Name: _____ Installer Phone No.: _____

CONTENTS

SAFETY PRECAUTIONS.....	1
IMPORTANT SAFETY INSTRUCTIONS.....	3
PARTS DIAGRAM.....	4
BEFORE INSTALLING.....	5
PREPARING FOR INSTALLATION.....	6
CABINET INSTALLATION.....	7
INSTALLATION INSTRUCTIONS.....	9
CONTROL PANEL.....	10
REMOTE CONTROL.....	11
CARE & CLEANING.....	14
TROUBLESHOOTING.....	15

This manual provides the information needed for proper use and maintenance of this air conditioner. Basic preventative care can help extend the life of this unit. The “Troubleshooting” section in this manual contains a chart with solutions to the most common problems. Referring to this section may save time and prevent the need for a service call in the event of a problem.

CAUTION

- Contact an authorized service technician for repair or maintenance of this unit.
- Contact an installer for installation of this unit, if necessary.
- The air conditioner is not intended for use by young children without adult supervision. Young children should be supervised to ensure that they do not play with the air conditioner.
- Disabled persons may require assistance with set up.
- If the power cord is to be replaced, replacement work should be performed by authorized personnel only.
- Installation and repair work must be performed in accordance with the national wiring standards by authorized personnel only.
- Do not operate your air conditioner in a wet room such as a bathroom or laundry room.

NOTE: All the illustrations in this manual are for explanation purposes only. Unit purchased may be slightly different.

The design and specifications are subject to change without prior notice for product improvement. Contact customer service for details.

SAFETY PRECAUTIONS

READ SAFETY PRECAUTIONS BEFORE INSTALLATION

To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring of instructions may cause harm or damage. The seriousness is classified by the following indications.



THIS SYMBOL INDICATES THAT IGNORING INSTRUCTIONS MAY CAUSE DEATH OR SERIOUS INJURY.



THIS SYMBOL INDICATES THAT IGNORING INSTRUCTIONS MAY CAUSE MODERATE INJURY TO YOUR PERSON, OR DAMAGE TO YOUR UNIT OR OTHER PROPERTY.

OTHER SYMBOLS:

NEVER DO THIS.

ALWAYS DO THIS.

WARNINGS

Plug in power cord properly.	Failure to do so may cause electric shock or fire due to excess heat generation.
DO NOT operate or stop the unit by inserting or pulling out the power plug directly from the wall.	Doing so may cause electric shock or fire due to heat generation
DO NOT use a damaged power cord.	Doing so may cause electric shock or fire. If the power cord is damaged, it must be replaced by the manufacturer or an authorized service center or a similarly qualified person in order to avoid a hazard
DO NOT modify power cord length or share the outlet with other appliances.	Doing so may cause electric shock or fire due to heat generation.
DO NOT operate with wet hands or in damp environment.	Doing so may cause electric shock.
DO NOT direct airflow directly at room occupants.	This could cause health issues.
Always ensure effective grounding.	Incorrect grounding may cause electric shock.
DO NOT allow water to run into electric parts.	Doing so may cause failure of machine or electric shock.
Always install circuit breaker and a dedicated power circuit.	Incorrect installation may cause fire and electric shock.
Always unplug the unit if strange sounds, smell or smoke comes from the unit.	Failure to do so may cause fire and electric shock.
DO NOT use the socket if it is loose or damaged.	Doing so may cause fire and electric shock.
DO NOT open the unit during operation.	Doing so may cause electric shock.
DO NOT use firearms near unit.	Doing so may cause fire.
DO NOT use the power cord close to heating appliances.	Doing so may cause fire and electric shock.
DO NOT disassemble, modify, or drill holes into the air conditioner.	Doing so may cause failure and electric shock and void manufacturer's warranty.
Ventilate room before operating air conditioner if there is a gas leak from another appliance such as a stove.	Failure to do so may cause explosion, fire and burns.
DO NOT use the power cord near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.	Doing so may cause an explosion or fire.

CAUTIONS

 When removing air filter, DO NOT touch metal parts of the unit.	Doing so may cause an injury.
 DO NOT clean with water.	Water may enter the unit and degrade the insulation causing an electric shock.
 Ensure proper ventilation especially in rooms with a stove or other appliances.	Failure to do so may result in an oxygen shortage.
 Unit and circuit breaker/fuse must be switched OFF when cleaning.	Cleaning unit when power is ON may cause fire and electric shock and may cause an injury.
 DO NOT put a pet or house plant where it will be exposed to direct air flow.	This could injure the pet or plant.
 Use ONLY as intended.	This unit is NOT intended to preserve precision devices, food, pets, plants, and art objects. It may cause deterioration of quality, etc.
 Stop operation and close the window in severe storms or hurricanes.	Operation with windows open may cause moisture to enter the room.
 Hold the plug by the head of the power plug when taking it out.	Failure to do so may cause electric shock and damage.
 If unit will not be used for a long period of time, unplug or turn OFF main power switch.	Leaving power on may cause unit failure or fire.
 DO NOT place obstacles around air-inlets or inside of air-outlet.	Obstacles may cause appliance failure or accident.
 Periodically check installation bracket for damage.	Prolonged exposure to outdoor elements may cause damage to installation bracket causing unit to fall.
 Always insert filter(s) securely. Clean filter(s) AT LEAST once every two weeks.	Operation without secured, installed filters may cause failure. A dirty filter can cause the unit to not run efficiently.
 Use only a soft cloth to clean the unit.	Cleaners or detergents may change the color or scratch the surface of the unit.
 Use caution when unpacking and installing.	Sharp edges could cause injury.
 NEVER drink water drained from air conditioner.	Water from unit contains contaminants and could cause illness.
 DO NOT place heavy objects on the power cord and always ensure that the cord is not compressed.	There is danger of fire or electric shock.
 If water enters the unit's electrical components, turn the unit off at the power outlet and switch off the circuit breaker. Isolate supply by taking the power-plug out and contact a qualified serviced technician.	There is danger of electric shock.

IMPORTANT SAFETY INSTRUCTIONS

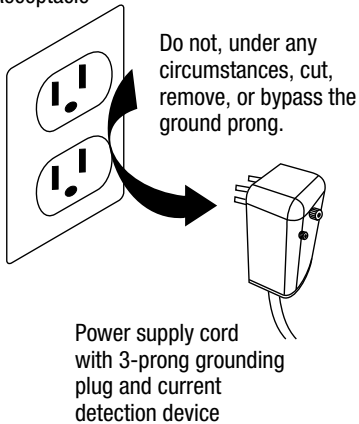
NOTE:

The power supply cord with this air conditioner contains a current detection device designed to reduce the risk of fire. Please refer to the section "Operation of Current Device" (below) for details. In the event that the power supply cord is damaged, it cannot be repaired. It must be replaced by an authorized repair technician with a cord from the Product Manufacturer.

WARNING

Avoid fire hazards or electric shock. **DO NOT** use an extension cord or an adapter plug. **DO NOT** remove any prong from the power cord.

Grounding Type
Wall Receptacle



OPERATION OF CURRENT DEVICE:

The power supply cord contains a current device that senses damage to the power cord. To test your power supply cord, do the following:

1. Plug in the air conditioner.
2. The power supply cord will have TWO buttons on the plug head. Press the TEST button. You will notice a click as the RESET button pops out.
3. Press the RESET button. Again, you will notice a click as the button engages.
4. The power supply cord is now supplying electricity to the unit. (On some products this is also indicated by a light on the plug head.)

WARNING

FOR YOUR SAFETY: Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliances.

WARNING - PREVENT ACCIDENTS

To reduce the risk of fire, electrical shock, or injury to persons when using your air conditioner, follow basic precautions, including the following:

- Be sure the electrical service is adequate for the model you have chosen. This information can be found on the serial plate, which is located on the side of the cabinet and behind the grille.
- If the air conditioner is to be installed in a window, you will want to clean both sides of the glass first. If the window is a triple-track type with a screen panel included, remove the screen completely before installation.
- Be sure the air conditioner has been securely and correctly installed according to the installation instructions in this manual.
- Save this manual for possible future use in removing or installing this unit.
- When handling the air conditioner, be careful to avoid cuts from sharp metal fins on front and rear coils.

WARNING - ELECTRICAL INFORMATION

The complete electrical rating of your new room air conditioner is stated on the serial plate. Refer to the rating when checking the electrical requirements.

- Be sure the air conditioner is properly grounded. To minimize shock and fire hazards, proper grounding is important. The power cord is equipped with a three-prong grounding plug for protection against shock hazards.
- Your air conditioner must be used in a properly grounded wall receptacle. If the wall receptacle you intend to use is not adequately grounded or protected by a time delay fuse or circuit breaker, have a qualified electrician install the proper receptacle.
- Ensure the receptacle is accessible after the unit installation.
- **DO NOT** run air conditioner without side protective cover in place. This could result in mechanical damage within the air conditioner.
- **DO NOT** use an extension cord or an adapter plug.

NOTE:

DO NOT use the plug to turn the unit on or off.

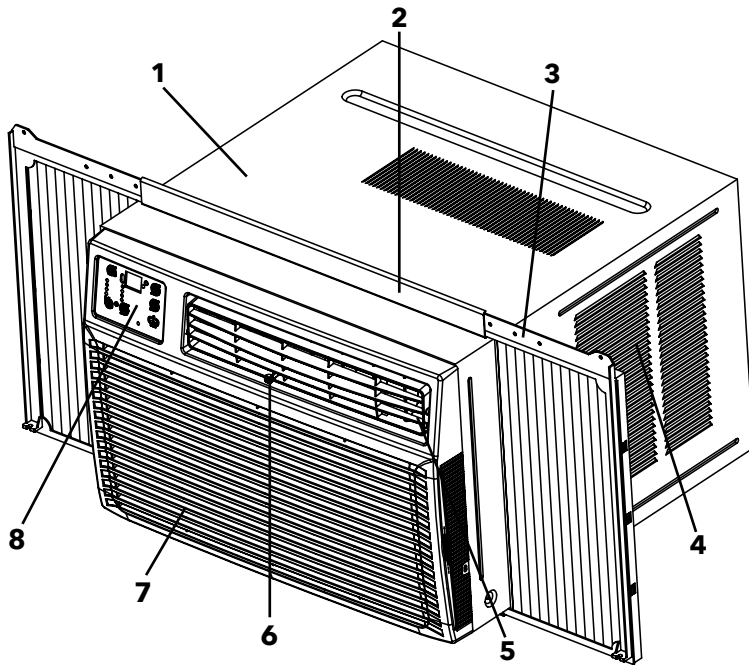
- Always make sure the RESET button is pushed in for correct operation.
- The power supply must be replaced if it fails reset when either the TEST button is pushed or it cannot be reset.
- If power supply cord is damaged, it cannot be repaired. Please call Consumer Services at 844-472-2473 to assist with replacement.

NOTE: This air conditioner is designed to be operated under the following conditions:

Cooling Operation	Outdoor Temp:	64–109°F/18–43°C
	Indoor Temp:	61–86°F/16–30°C
Heating Operation	Outdoor Temp:	19–84°F/-7–29°C
	Indoor Temp:	32–80°F/0–27°C

Performance may be reduced outside of these operating temperatures.

PARTS DIAGRAM



1. CABINET
2. TOP RAIL
3. SLIDING ACCORDION PANEL
4. AIR INLET
5. LOUVER DIRECTION ADJUSTMENT*
6. FRESH AIR SWITCH
7. FRONT GRILLE (Air filter is located behind the front grille)
8. CONTROL PANEL

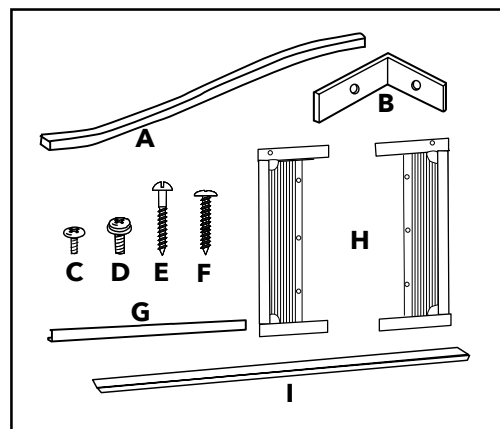
* **Changing Airflow Direction -**
Airflow on unit may be diverted left or right from center by louvers. Upward and downward air discharge is provided by tilting louvers. Adjust/tilt louvers for desired airflow direction.

NOTE: All of the illustrations in this manual are for explanation purposes only. Unit purchased may be slightly different.

INSTALLATION HARDWARE

Before installing, please ensure you have all installation accessories included with this unit. (See list below.) If missing parts, please contact Consumer Services at 844-4PA-AIRE (844-472-2473).

ITEM	NAME OF PART	QTY
A	Foam Window Sash Seal	1
B	Window Lock Brackets	2
C	#10 x 1/4" Pan-head Phillips Screws	6
D	#10 x 3/8" Pan-head Phillips Screws	3 or 7
E	#10 x 3/4" Round-head Screws	6
F	#10 x 1/2" Pan-head Phillips Screws	3
G	Top Rail	1
H	Accordion Panels	2
I	Foam Seal	1



BEFORE INSTALLING

STOP BEFORE YOU BEGIN

Read these instructions completely and carefully.

IMPORTANT- Save these instructions.

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; professional installation preferred.

Completion time- Approximately 1–1½ hours.

We recommend that two people install this product.

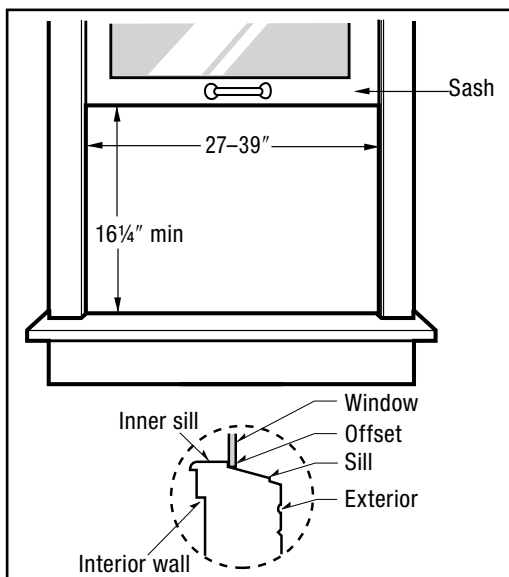
Proper installation is the responsibility of the installer.

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.

! INSTALLATION REQUIREMENTS

This room air conditioner is designed for installation in standard double-hung windows with actual opening widths of 27 in. to 39 in. Lower sash must open sufficiently to allow a clear vertical opening of 16¼ in. Side louvers and the rear of the air conditioner must have clear air space to allow enough airflow through the condenser for heat removal. The rear of the unit must be outdoors, not inside a building or garage.



Check the location where the unit will be installed. Proper installation is your responsibility. Make sure you have everything necessary for correct installation.

The location should provide:

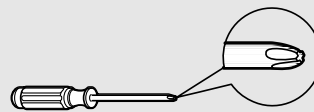
- Grounded electrical 3 prong outlet within 4 ft. of where the air conditioner power cord exists.
- **⚠ WARNING: DO NOT** use an extension cord.
- **DO NOT** block the louvers on the front panel.
- **DO NOT** block the louvers on the outside of the air conditioner.

NOTE: Cabinet louvers must not be obstructed. Air must be able to pass freely through the cabinet louvers.

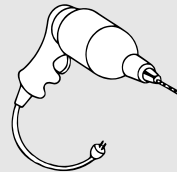
INSTALLATION

Pick a location which will allow cold air to blow into the area you desire. Windows used for installation must be strong enough to support the weight of the air conditioner. Good installation with special attention to the proper position of the unit will lessen the chance that service will be needed.

TOOLS YOU WILL NEED



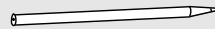
Phillips
Screwdriver



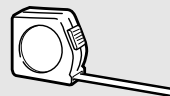
Drill & 3/16"
drill bit



Screwdriver



Pencil



Ruler or Tape
Measure



Scissors or
Knife



Level

NOTE: Save carton and these Installation Instructions for future reference. The carton is the best way to store unit during winter or when not in use.

If you encounter problems during installation, call Perfect Aire Consumer Services at 844-4PA-AIRE (844-472-2473).

PREPARING FOR INSTALLATION

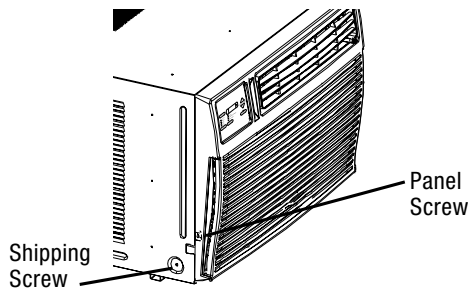
WARNING

EXCESSIVE WEIGHT HAZARD!

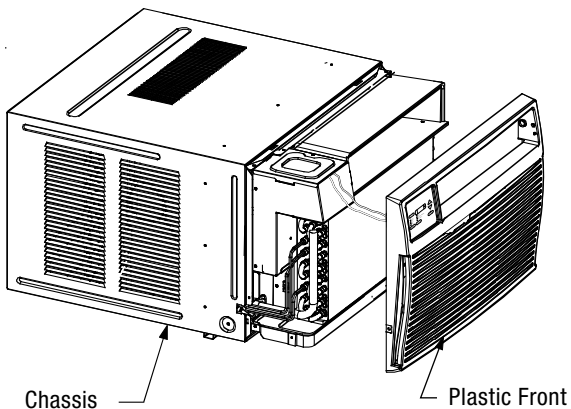
To reduce the risk of personal injury, we advise you have the assistance of 2 or more individuals while moving and installing the air conditioner. Failure to do so can result in back or other injuries. A room air conditioner can weigh between 70–240 lbs.

► STEP 1: SLIDE OUT CHASSIS REMOVAL

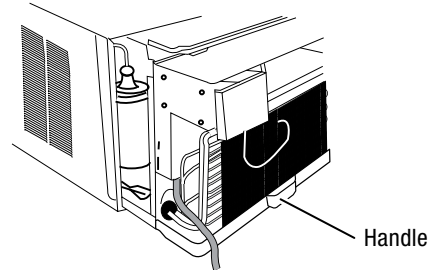
1. Remove the air conditioner from box and place it on cardboard.
2. Remove shipping screws from both sides of the cabinet.



3. Remove front panel by removing 2 Phillips screws on both bottom left and right sides of front. Unplug control panel from unit.
4. Using base pan handle, pull chassis straight out, slowly and evenly, until approximately 9–12 inches extend from outer case. Use both hands to grasp base pan and pull remaining chassis from outer case.



5. Remove any packing foam from inside of unit.



NOTE: Do not lift, push, pull or remove any expanded polystyrene (foam) from inside the air conditioner. It is not packing material.

WARNING

DO NOT operate unit with shipping foam blocks in place. Always remove prior to running unit.

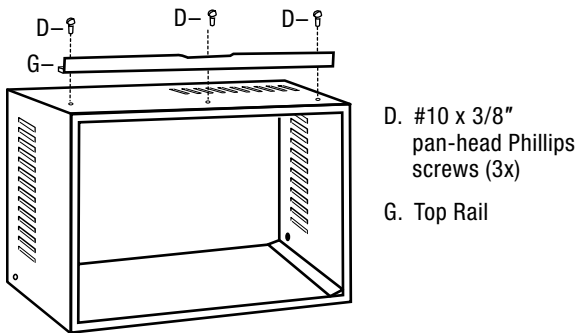
► STEP 2: REMOVE PACKING MATERIALS

- Remove and dispose of or recycle all packaging materials. Remove tape and glue residue from surfaces before turning on the air conditioner. Rub a small amount of liquid dish soap over the adhesive with your fingers. Wipe with warm water and dry.
- **DO NOT** use sharp instruments, rubbing alcohol, flammable fluids, or abrasive cleaners to remove tape or glue. These products can damage the surface of your air conditioner.
- Handle air conditioner gently.

CABINET INSTALLATION

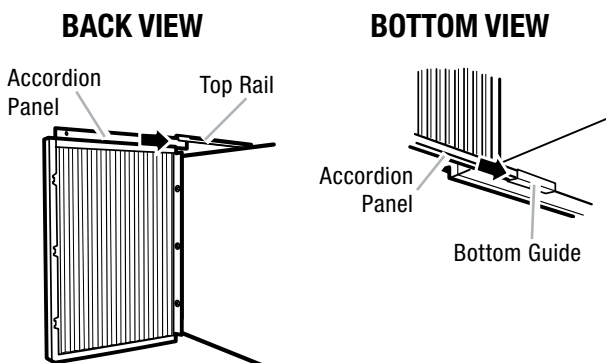
▶ STEP 1: TOP RAIL

1. Remove the air conditioner and top rail (G) from the carton and place them on a flat surface.
2. Align the holes in the top rail with those in the top of the unit.
3. Secure the top rail to the unit with three of the 3/8 inch short screws (D) as shown in the diagram below.
NOTE: Higher side of the top rail is to be facing the inside of the room.



▶ STEP 2: ATTACH SIDE ACCORDION PANELS

1. Insert top and then bottom of right-hand accordion panel to top rail and bottom guide on air conditioner cabinet.

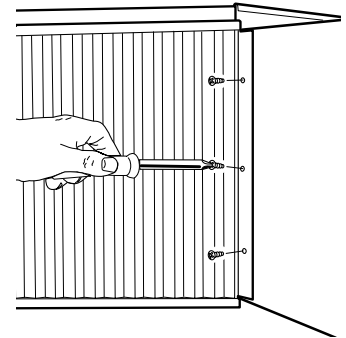


2. Extend the right-hand accordion panel outward so you can insert the first screw through the middle hole of the accordion panel. Using #10 x 1/4 inch pan-head Phillips Screw (C), screw accordion panel to middle hole in air conditioner cabinet.

NOTE:

These (6x) Phillips screws (C) are required to correctly attach accordion panel to the air conditioner cabinet.

3. While the right-hand accordion is still extended, insert the #10 x 1/4 inch pan-head Phillips screws (C) into the top and bottom slots of accordion. Screw accordion to the top and bottom holes in air conditioner cabinet.

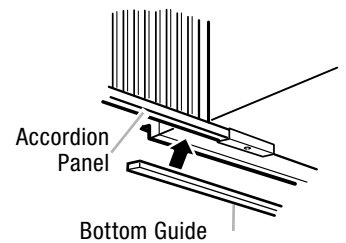


NOTE: Some accordion panels may have 2 slots at each end. You will be able to see a mounting hole through the correct slot.

4. Slide accordion panel housing into guides as far as it will go.
5. Repeat the above steps for the left-hand accordion panel.

▶ STEP 3: ATTACH FOAM ADHESIVE SEAL

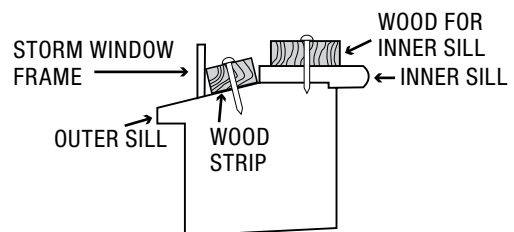
Attach foam adhesive seal (A) along the bottom of the accordion panel's bottom guide.



▶ STEP 4: INSTALL CABINET INTO WINDOW

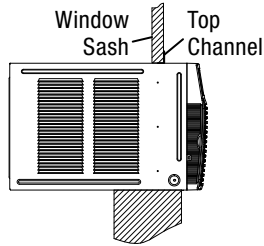
- Handle air conditioner gently.
- Be sure your air conditioner cabinet does not fall out of the opening during installation or removal.
- The location where the power cord exits the air conditioner should be no more than 4 ft from a grounded 3 prong outlet.
- Do not block the louvers on the front panel.
- Do not block the louvers on the outside of the air conditioner. If air is obstructed and/or deflected back into the unit, the air conditioner's compressor may cycle on and off rapidly. This could damage the unit.

FOR STORM WINDOWS

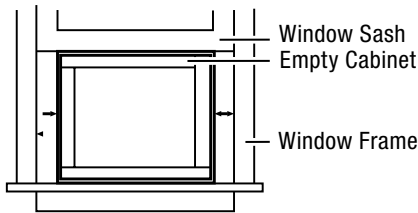


CAUTION: Do not install this air conditioner in a window if the bolts do not make contact with the window sill.

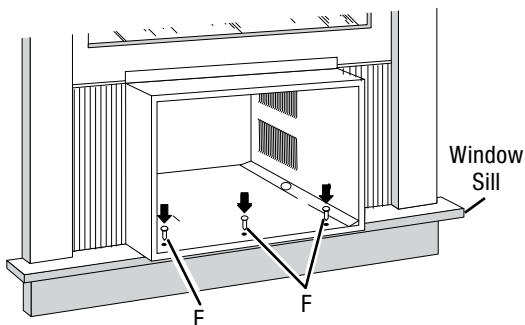
- Center empty cabinet in window. Check that lower rail of air conditioner cabinet is behind and against back side of window sill. Maintain a firm hold on the air conditioner cabinet. Lower window sash to hold cabinet in place. Top rail must be on the inside room of window sash.



- Measure the distance between the right-hand side of the cabinet and the inside of the window channel.
- Repeat for the left side. Adjust the cabinet until the distance on each side is the same.

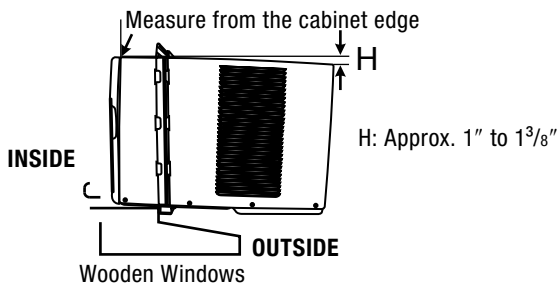


- Use a 3/16" drill bit to drill 3 starter holes 1/2" deep through the 3 holes on the cabinet and into window sill.
- Attach cabinet to window sill with 3 - #10 x 1/2" pan-head Phillips screws (F).



(3x) #10 x 1/2" pan-head Phillips screws (F)

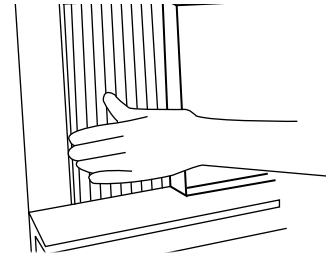
- Check that air conditioner cabinet is tilted to the outside so that condensate water will run to the outside.



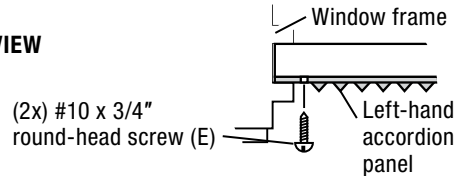
► STEP 5: SECURING ACCORDION TO THE WINDOW FRAME

- Pull left-hand accordion panel out until it reaches the window frame. Use a 3/32" drill bit to drill a starter hole through the hole in the accordion panel housing & into the lower window sash. (See top of next column.)

FRONT VIEW

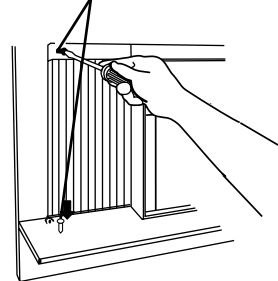


TOP VIEW



- Insert one of the #10 x 3/4" round-head screws (E) through hole and into lower window sash. Insert one of the #10 x 3/4" round-head screws (E) through threaded hole in top of curtain and one in bottom of curtain.

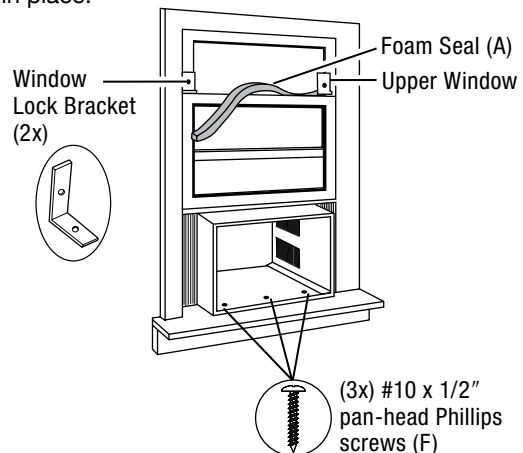
(2x) #10 x 3/4" round-head screws (E)



- Repeat for right-hand accordion panel.

► STEP 6: COMPLETE WINDOW INSTALLATION

- Insert foam seal behind the top of the lower window sash and against the glass of the upper window.
- Place window-lock bracket on top of lower window and against upper window sash.
- Use a 3/32" drill bit to drill a starter hole through the hole in the bracket and into the window sash.
- Attach window-lock bracket to window sash with #10 x 3/4" round-head screw (E) to secure window in place.



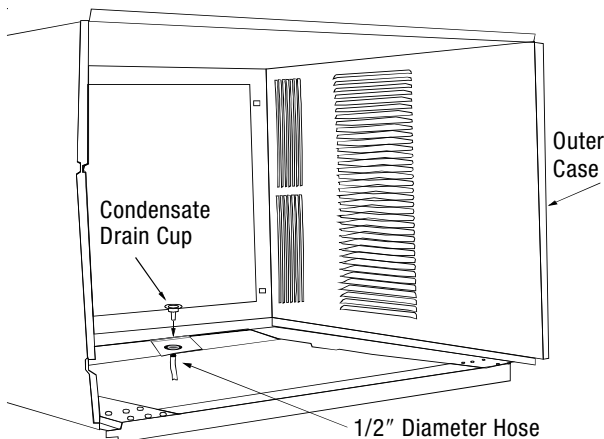
INSTALLATION INSTRUCTIONS

► DRAIN CUP INSTALLATION AND USE

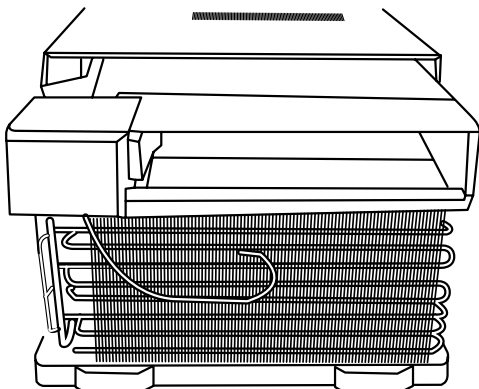
Your air conditioner uses a system where the water removed from the indoor air (condensate) is channeled to the outdoor side of the unit. The outdoor fan blade has a “slinger” ring attached to it that dips into the water and slings the water onto the outdoor coil surface. This is the sound of water you hear during normal operation. The water quickly evaporates on this warm surface and improves the efficiency of your air conditioner. In normal conditions the unit can evaporate the water as fast as it is removed from the indoor air.

However, in very humid conditions excess amounts of water may drip off the unit chassis. If this proves to be a problem, install the condensate drain cup included with the unit to route excess water where it will not be a problem (see illustration).

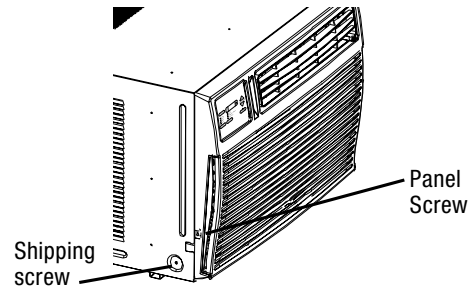
To install, remove the unit chassis from the outer case. Insert the condensate drain cup through the recessed 1/2" hole on the back center of the outer case. Once inserted, place a 1/2" diameter hose or tube on the drain cup bottom spout. The hose allows you to route where you want the excess water to go. Reinsert the unit chassis into the outer case. The unit base pan overflow hole will be positioned directly above the drain cup and will catch any water that might run out.



1. Insert air conditioner into cabinet.



2. Install shipping screws on both sides of cabinet.
3. Plug the control panel to the unit.
4. Insert front tabs of front panel into top of cabinet and swing front into place.
5. Attach bottom front with panel screws, one screw on each side.



6. Plug into a grounded 3 prong outlet.
7. Press RESET on the power supply cord plug.
8. Turn unit on.

⚠ WARNING

ELECTRICAL SHOCK HAZARD!

Replace two shipping screws on both sides of cabinet for grounding purposes. Failure to do so can result in death or electrical shock.

Operating your air conditioner properly will help you obtain the best possible results.

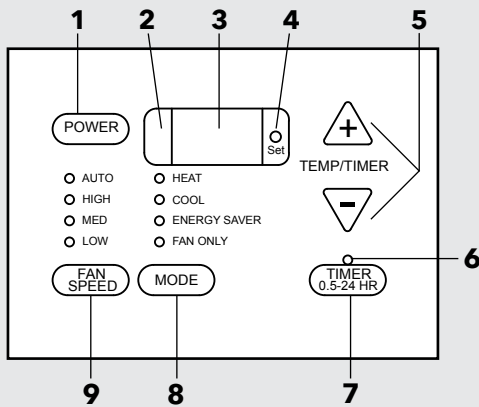
This section explains proper air conditioner operation.

IMPORTANT:

- If you turn off the air conditioner, wait at least 3 minutes before turning it back on. This prevents the air conditioner from blowing a fuse or tripping a circuit breaker.
- Do not try to operate your air conditioner in the cooling mode when outside temperature is below 61°F (16°C). Do not try to operate your air conditioner in the heating mode when outside temperature is over 86°F (30°C). The inside evaporator coil will freeze up, and the air conditioner will not operate properly.

NOTE: In the event of a power failure, your air conditioner will operate at the previous settings when the power is restored.

CONTROL PANEL



Lights next to the touch pads on the unit's control panel indicate the selected settings.

The display shows the set temperature when in HEAT/COOL/ENERGY SAVER modes. The display shows time remaining on the delay timer. It shows the room temp. when in FAN only mode.

1. POWER Button

Press to turn the unit ON/OFF.

2. REMOTE CONTROL SIGNAL RECEIVER

- Make sure signal receiver is unobstructed.
- Maximum remote distance is 26 ft.
- Unit will beep when signal from remote has been received.

3. DIGITAL DISPLAY

- In FAN mode, this displays the room temp.
- In COOL and HEAT mode, this displays the set temperature.
- In TIMER function, On/Off time is displayed.
- If Display shows Error Codes, contact Consumer Services at 844-472-2473.

4. SET Indicator

Light indicates the unit is in the temperature or delay time set mode.

5. TEMP/TIMER Buttons +/-

- Press to adjust the temperature and set the time for the On or Off timer.
- Press both + and - at the same time to switch between °C and °F.

6. TIMER ON/OFF Indicator

Illuminates when timer has been set for On and/or Off.

7. TIMER Button

Press to set the timer On/Off.

8. MODE Button

Press to select HEAT, COOL, ENERGY SAVER or FAN.

9. FAN SPEED Button

Press to select LOW, MED, HIGH or AUTO fan speed.

► USING THE CONTROL PANEL

COOL Mode

- Press the MODE button until the COOL indicator is on.
- Press the TEMP/TIME buttons (+/-) to adjust desired room temperature on the display.
- Press the SPEED button to select desired fan speed (High, Med, Low, Auto).

HEAT Mode

- Press the MODE button until the HEAT indicator is on.
- Press the TEMP/TIME buttons (+/-) to adjust desired room temperature on the display.
- Press the SPEED button to select desired fan speed (High, Med, Low, Auto).

FAN Mode

Use this mode to circulate the air in the room without cooling or dehumidifying the room. In FAN mode, the temperature cannot be adjusted.

- Press the mode button until the FAN indicator is on.
- Press the SPEED button to adjust the fan speed (High, Med, Low). When using the control panel, AUTO fan speed cannot be selected. AUTO fan speed can be selected with the remote only.

ENERGY SAVER Mode

While the unit is running press the MODE button to select ENERGY SAVER. When the set temperature is reached the compressor will shut off. The fan will continue to run 3 minutes after the compressor shuts off. The unit will not run for 10 minutes. After 10 minutes the fan will run for 1 minute and repeat the cycle. If the temperature changes, the compressor will turn on until the set temperature is reached.

TIMER ON/OFF Function

TIMER ON

- Turn the unit on to set the desired temperature and fan speed for when the unit turns on with the Timer.
- Turn the unit off (Standby).
- Press the TIMER button
- Press the TEMP/TIMER buttons (+/-) to set the time on the display from 0.5–24 hours (by 0.5 hour increments up to 24 hours).
- The TIMER ON/OFF indicator will be on when the timer has been set.

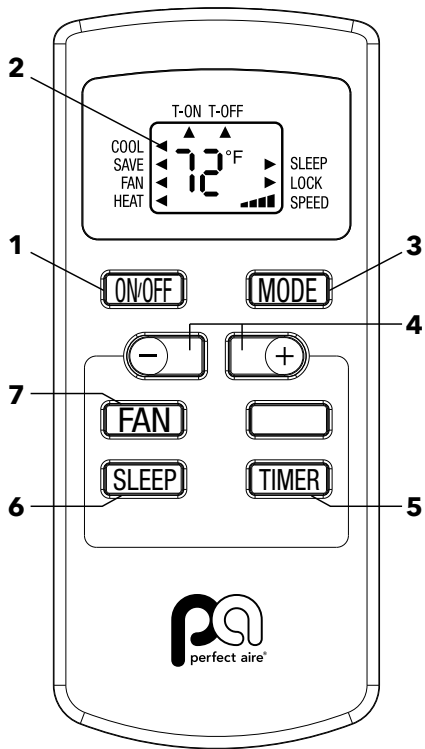
TIMER OFF

- Turn the unit on to set the desired temp. and fan speed.
- Press the TIMER button.
- Press the TEMP/TIMER buttons (+/-) to set the time on the display from 0.5–24 hours (by 0.5 hour increments up to 24 hours).
- The TIMER ON/OFF indicator will be on when the timer has been set.

NOTE:

To cancel the timer function press the TIMER button again.

REMOTE CONTROL



- 1. ON/OFF Button**
Press to turn the unit ON/OFF.
- 2. DIGITAL DISPLAY**
- 3. MODE Button**
Press this button to select operating mode.
- 4. +/- BUTTONS**
These buttons are for increasing/decreasing the temperature settings within a range of 61–86°F (16–30°C) and for setting the time when setting the Timer.
- 5. TIMER Button**
Press this button to set the Timer for time Switch-On, Switch-Off or to cancel the timer. (See page 10 for more information.)
- 6. SLEEP Button**
Available on remote control only. See page 13.
- 7. FAN Button**
Press this button to select fan speed.

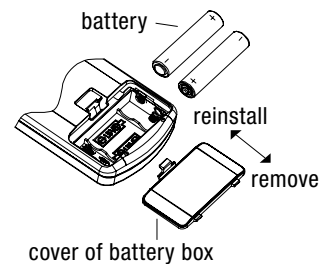
▶ NOTES ABOUT USING THE REMOTE CONTROL

- Some functions may not be available for this unit. If selected, unit will continue to run with no change.
- When the unit is powered off, you can operate the air conditioner with the remote control.
- Each time you press the button the remote control, the sending signal icon “” on the remote will blink once. If the air conditioner beeps, it means the signal has been received.
- When unit is off, set temperature will be displayed on the remote control. When unit is on, it will display the icon of the on-going function.
- **DO NOT** place the remote near anything with high temperature, such as an electric heating pad or radiator.
- **DO NOT** place the remote where it is exposed to direct sunlight or strong lights.
- **DO NOT** drop anything on the remote as this may cause damage.
- **DO NOT** block the area between the unit and remote or it will not receive signals from the remote.
- **DO NOT** splash water or other liquids onto the remote.
- **DO NOT** place heavy objects on the remote.

▶ REPLACING THE BATTERIES

1. Press the back side of remote control on the spot marked with “”, and then push out the cover of battery box along the arrow direction.
2. Replace two AA 1.5V dry batteries; make sure the positions of + and – polar are correct.
3. Reinstall the cover of battery box.

NOTE: DO NOT mix old and new batteries.



▶ REMOTE CONTROL TIPS

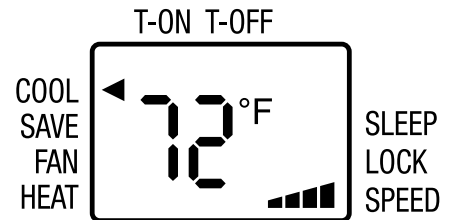
- During operation, point the remote control signal sender at the receiving window on indoor unit.
- The distance between signal sender and receiving window should be no more than 26 ft, and there should be no obstacles between them.
- Signal may be interfered easily in the room where there is fluorescent lamp or wireless telephone; remote control should be close to indoor unit during operation.
- Replace with AA 1.5V dry batteries when replacement is required.
- Remove batteries from remote control when not operating unit for an extended period of time.
- If the display on remote control is fuzzy or there’s no display, please replace batteries.

► USING THE REMOTE CONTROL

COOL Mode

- Press the ON/OFF button to turn the unit on.
- Press the MODE button to select COOL. An arrow will appear next to this icon to indicate that it is selected.
- Set the temperature using the -/+ buttons.
- To select fan speed, press the FAN button until the required speed is selected (LOW/MED/HIGH/AUTO).

NOTE: In COOL mode the unit automatically removes excess moisture from the atmosphere.

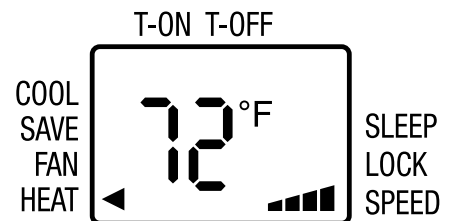


HEAT Mode - Room Heat Pumps

Heat pumps work by moving heat instead of creating it. In the summer, the cool indoor coil absorbs heat from your room and moves it outdoors, providing cooling. In the winter, heat pumps reverse this operation. By lowering the temperature of the outdoor coil below the outdoor temperature, the heat pump absorbs the heat from outdoors and moves it inside your house. This heat transferring process is very efficient. For example, at 45°F outdoor temperature, a heat pump can provide 2½ watts of heat for every watt of electricity it consumes.

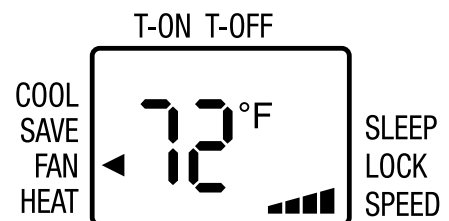
As outdoor temperatures drop, the heating capacity and efficiency of the heat pump declines. At temperatures below 45°F, it is likely that ice will form on the outdoor coil. Heat pump units are designed to operate as a heat pump above approximately 40°F. Below 40°F, these units switch automatically from reverse cycle heat pump to auxiliary electric heating. No defrost is required. There is no minimum operating temperature.

- Press the ON/OFF button to turn the unit on.
- Press the MODE button to select HEAT. An arrow will appear next to this icon to indicate that it is selected.
- Set the temperature using the -/+ buttons.
- To select fan speed, press the FAN button until the required speed is selected (LOW/MED/HIGH/AUTO).



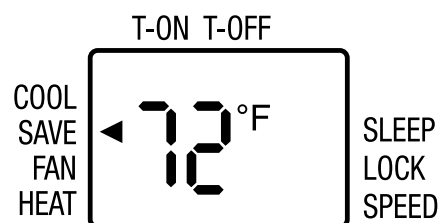
FAN Mode

- Press the ON/OFF button to turn the unit on.
- Press the MODE button to select FAN. An arrow will appear next to this icon to indicate that it is selected.
- To select fan speed, press the FAN button until the desired speed is selected (LOW/MED/HIGH/AUTO).
- Fan speed is indicated by the icon on the right side of the screen.



ENERGY SAVER Mode

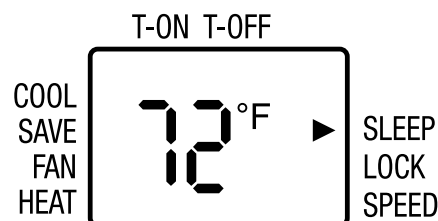
While the unit is running press the MODE button to select Energy Saver ("SAVE"). When the set temperature is reached the compressor will shut off. The fan will continue to run 3 minutes after the compressor shuts off. The unit will not run for 10 minutes. After 10 minutes, the fan will run for 1 minute and repeat the cycle. If the temperature changes the compressor will turn on until the set temperature is reached.



SLEEP Function

The temperature setting will gradually increase to 1°F above the original set temperature for each of the first 2 hours. The unit will keep operating at the same temperature for 6 hours, then switch to standby mode. To set this function:

- Select the operating mode (COOL/HEAT).
- Press the SLEEP button; the unit will operate in the selected mode.



► SETTING THE TIMER

The timer can be used to delay start up or shutdown times to avoid wasting electricity by optimizing operating periods.

TIMER OFF Function

1. With the unit On, press the TIMER button. The ▲ is displayed below T-OFF to indicate that it is active and H will blink on the display.
2. Set the time you want the unit to switch off using the +/- buttons within 5 seconds.
 - You can select 30 minute intervals from 30 minutes to 24 hours.
3. Press the TIMER button again to confirm the setting. The TIMER light on the control panel will be activated.
 - At the end of the set time, the appliance switches Off automatically.
 - To cancel the TIMER setting, press the TIMER button again at any point during the set time.

TIMER ON Function

1. With the unit on, set operating mode, temperature and fan speed before setting Timer On function.
2. Press ON/OFF button to switch into STANDBY.
3. Press the TIMER button twice; the T-ON icon will be active.
4. Set the time you want the unit to switch off using the +/- buttons within 5 seconds.
 - You can select 30 minute intervals from 30 minutes to 24 hours.
5. Press the TIMER button again to confirm the setting. The timer icon will be active.
 - At the end of the set time the unit switches On automatically.
 - To cancel the TIMER setting, press the TIMER button again at any point during the set time.

► CHILD LOCK FUNCTION

Pressing the "+" and "-" buttons simultaneously turns the child lock function On or Off. When child lock function is started, the LOCK indicator on the remote control is On. If you operate the remote control, the remote control won't send a signal.

► TEMPERATURE DISPLAY SWITCHOVER FUNCTION

Under Off status, press the "-" and "MODE" buttons simultaneously to switch between °C and °F.

CARE AND CLEANING

⚠ CAUTION

Clean air conditioner occasionally to keep it looking and operating like new.
Be sure to unplug the unit before cleaning to prevent shock or fire hazards.

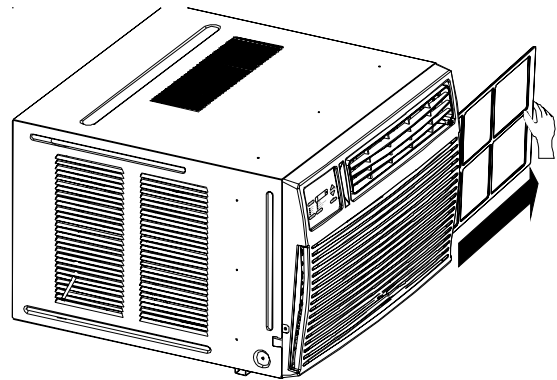
NOTE: If the air filter screen is blocked by dust, the performance of the unit will be affected, the unit will be louder than normal, and power consumption will increase. Therefore, periodic cleaning of the air filter screen is necessary.

NOTE: The life of your unit may be greatly reduced if you live in a salty air or other corrosive type environment. Under these conditions, the unit should be removed from its case and completely cleaned at least once a year. At that time, any scratches or blisters on the painted surfaces should be sanded and repainted. Placing an algacide tablet in the outdoor side of the unit's base pan is suggested in humid areas where algae formation is common.

► CLEANING THE AIR FILTER

Clean the air filter screen throughout the operational season. It is recommended that the air filter screen be cleaned once every two weeks using the method below:

1. Grasp filter handle and slide filter out of unit.
2. Clean the air filter screen. If the air filter screen is very dirty, you may use lukewarm water (about 86°F/30°C) to clean it. Allow it to completely air dry before returning it to the unit.
NOTE: DO NOT use boiling water to clean the screen; **DO NOT** pull or push on the screen with too much force.
3. Install the air filter screen. Slide the air filter back in to grille. If the air conditioner is operated without an air filter screen, the interior of the unit will be contaminated with dirt which may cause performance failure or damage to parts.
4. Clean the air conditioner.
 - Use a soft, dry cloth to wipe the air conditioner or use a vacuum cleaner to do the cleaning.
 - If the air conditioner is very dirty, you may use a cloth soaked with mild household detergent to do the cleaning.



► BEFORE THE SEASON

1. Check to see if anything is blocking the air inlet and front grille.
2. Ensure the bottom of the unit is not corroded or rusty.
3. Ensure the plug is not damaged.
4. Clean the air filter.
5. Connect to an appropriate outlet with sufficient power. See product sticker for information.
6. Load fresh batteries into the remote control.

► AFTER THE SEASON

1. Press the power button. Set the temperature to 86°F (30°C) and let the machine run in COOL mode for half a day. Make sure any signs of condensation on the outside of the unit are wiped off with a soft, dry, clean cloth.
2. Turn off the unit. Unplug the unit during non-operational seasons to save energy and for safety reasons.
3. Clean the air filter screen and install it back in place.
4. Clean the unit.
 - Use a soft, dry cloth to wipe the air conditioner or use a vacuum cleaner to do the cleaning.
 - If the air conditioner is very dirty, you may use a cloth soaked with mild household detergent to do the cleaning.
5. Remove the batteries from the remote control.

⚠ WARNING

EXCESSIVE WEIGHT HAZARD!

To reduce the risk of personal injury, we advise you have the assistance of 2 or more individuals while moving and installing the air conditioner. Failure to do so can result in back or other injuries. A room air conditioner can weigh between 70–240 lbs.

TROUBLESHOOTING

WARNING

To reduce the risk of electric shock, personal injury, or death, turn the fan control to the OFF position and remove the unit plug from the wall outlet before doing any inspection or maintenance work

The following is a list of problems that are sometimes encountered when using a room air conditioner. Possible cause and suggested remedies are given for each problem. If the problem cannot be fixed using the suggested remedies, see **WHEN ASSISTANCE IS REQUIRED** section on the next page.

BEFORE CALLING FOR SERVICE, PLEASE REVIEW THE CHART BELOW

ISSUE	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
UNIT WILL NOT RUN	<ul style="list-style-type: none"> No power to unit 	<ul style="list-style-type: none"> Push reset button on power cord. Set Fan Control to position other than OFF. Make sure plug is firmly seated in outlet. Check for blown fuses, tripped circuit breakers.
LITTLE/NO COOLING LITTLE/NO HEATING (fan and compressor run)	<ul style="list-style-type: none"> Fresh air/exhaust damper open 	<ul style="list-style-type: none"> Set vent to CLOSED.
	<ul style="list-style-type: none"> Obstructed indoor or outdoor airflow 	<ul style="list-style-type: none"> Remove obstruction from indoor grille or outdoor louvers.
	<ul style="list-style-type: none"> Dirty air filters 	<ul style="list-style-type: none"> Dirty air filter. Clean or replace, as needed.
	<ul style="list-style-type: none"> Unit undersized for application 	<ul style="list-style-type: none"> Check with dealer to determine proper capacity unit for application.
LITTLE/NO COOLING LITTLE/NO HEATING (only fan runs)	<ul style="list-style-type: none"> Temperature Control not set properly 	<ul style="list-style-type: none"> For cooling, turn Temperature Control to cooler setting. For heating, turn Temperature Control to warmer setting.
NOISY UNIT	<ul style="list-style-type: none"> Loose front on mounting assembly 	<ul style="list-style-type: none"> Tighten any loose parts.
	<ul style="list-style-type: none"> Weak building construction 	<ul style="list-style-type: none"> Provide additional support for unit.
	<ul style="list-style-type: none"> Water hitting fan blade 	<ul style="list-style-type: none"> Normal in high humidity. Stop noise by removing drain plug or adding condensate drain cup.
	<ul style="list-style-type: none"> Unit oversized for application; compressor cycles on and off frequently 	<ul style="list-style-type: none"> Check with dealer to determine proper capacity unit for application.
MOUNTING SUPPORT NOT INSTALLED	<ul style="list-style-type: none"> Storm window frame installed in window 	<ul style="list-style-type: none"> Some models require removal of storm window frame before installation.
FROST ON INDOOR COIL	<ul style="list-style-type: none"> Dirty air filter 	<ul style="list-style-type: none"> Clean air filter by vacuuming or washing with water & mild soap.
	<ul style="list-style-type: none"> Normal for low outdoor temperatures 	<ul style="list-style-type: none"> Turning Temperature Control to warmer setting reduces occurrence and duration of frost.
FROST ON OUTDOOR COIL (heat pump)	<ul style="list-style-type: none"> Normal for outdoor temperatures at or below 45° 	<ul style="list-style-type: none"> Call Consumer Services at 844-472-2473 only if unit does not heat room and you have checked all problems and remedies listed under "Little or No Heating."
ODORS IN COOLING	<ul style="list-style-type: none"> Mold, mildew, or algae formation on wet surfaces 	<ul style="list-style-type: none"> To reduce algae growth, use algacide tablet in base pan; remove drain plug; add condensate drain cup and hose. Thoroughly clean unit.
ODORS IN HEATING	<ul style="list-style-type: none"> Normal for first time heater is used each season 	<ul style="list-style-type: none"> Caused by dust accumulation during unused months. Odor dissipates quickly with heater use.

BEFORE CALLING FOR SERVICE, PLEASE REVIEW THE CHART BELOW

ISSUE	POSSIBLE CAUSES
WATER PUDDLES INSIDE UNIT OR IS COMING INTO ROOM	<ul style="list-style-type: none"> • Adjust slope of unit so it drains downward toward the exterior of the home. (See installation instructions.) • Make sure that there is no debris blocking the drainage area of the unit. • If the air conditioner operates in high humidity for a long time, moisture may be condensed and appear at the air outlets (louvers).
WATER DRIPPING OUTSIDE	<ul style="list-style-type: none"> • Unit is removing a large quantity of moisture from a humid room. This is normal during excessively humid days.
NO REMOTE CONTROL SIGNAL IS RECEIVED	<ul style="list-style-type: none"> • When the signal receiver on the air conditioner is exposed to sunlight or strong lights, it may fail to receive the remote control signal. Shade off the sunlight or dim the lighting. • Ensure nothing is blocking the path between the remote control and the signal receiver on the unit. • Check the batteries in the remote.
UNIT BLOWS FUSES OR POPS CIRCUIT BREAKER	<ul style="list-style-type: none"> • Make sure there are enough available amps on the circuit for the air conditioner. • Large units which run on a 230V will require a dedicated 20 or 30 amp circuit. • A dedicated power outlet is required for all air conditioners.

► ANY QUESTIONS?

Most questions can be answered by following the troubleshooting tips included in this manual. If you have other matters that cannot be resolved locally or you need additional information regarding other cooling and heating products offered by Perfect Aire, please call:

CONSUMER SERVICES
Tel: 844-4PA-AIRE (844-472-2473)
Website: www.perfectaire.us

► WHEN ASSISTANCE IS REQUIRED

Help us give you prompt service by providing:

- An accurate description of problem
- Complete model, serial, and manufacturing numbers from product sticker
- Proof of purchase (sales receipt) upon request

Repair by unauthorized servicer that results in subsequent failure of unit voids warranty. Warranty details are contained in warranty certificate enclosed with unit. Keep accurate records of service calls, including what was done, servicer's name, and date of service.



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