

CARRIER

52F Series

OWNER'S GUIDE

READ AND SAVE THESE INSTRUCTIONS

AIR CONDITIONER

Electronic Control



Carrier 52F Series Air Conditioner Five-year Limited Warranty

ONE-YEAR WARRANTY - CARRIER warrants to the user that this product will be free from defects of workmanship under normal use and maintenance for a period of one year from the date of original purchase. CARRIER, through its authorized independent servicing dealers or service stations, will either repair or replace a defective product (as decided solely by CARRIER) free of charge to the user. For units installed within one mile of a seawater body, Carrier will repair or replace any parts that have failed due to corrosion from salt water. CARRIER may replace any defective part with either a new or remanufactured part, at CARRIER's sole option.

EXTENDED FOUR-YEAR WARRANTY ON SEALED REFRIGERATION SYSTEM ONLY - During the second through fifth years after date of original purchase. CARRIER further warrants to the user that the compressor, condenser, evaporator, and connecting tubing will be free from defects in material or workmanship under normal use and maintenance. CARRIER will either repair or replace (as decided solely by CARRIER) any defective compressor, condenser, evaporator, or connecting tubing free of charge to the user, including a recharge of refrigerant for the system if necessary. However, THIS EXTENDED WARRANTY DOES NOT INCLUDE units that are installed within one mile of a seawater body.

LIMITATION OF WARRANTIES - ALL IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) ARE HERBY LIMITED IN DURATION TO THE PERIOD FOR WHICH THE APPLICABLE PRODUCT COMPONENT IS EXPRESSLY WARRANTED HEREIN. Some states or provinces do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. THE EXPRESS WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED OR CHANGED BY ANY DISTRIBUTOR, DEALER OR OTHER PERSON WHATSOEVER. CARRIER WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGES OF ANY NATURE WHATSOEVER. Some states or provinces do not allow the exclusion of incidental or consequential damages, so the above limitation may not apply to you. All work provided for by this warranty shall be performed during normal working hours. All replacement parts, whether new or remanufactured, assume as their warranty period only the remaining time period for which the applicable component is expressly warranted herein.

*Authorized independent dealers or service stations are registered with CARRIER or through its distributor organization. Please call toll free 1-800-894-6449 for the dealer or service station near you.

CARRIER WILL NOT BE RESPONSIBLE FOR:

1. Damage due to failure to perform normal maintenance as outlined in the Owner's Guide.
2. Instruction on methods of control and use of air conditioning unit after initial installation.
3. Damages or repairs needed as a consequence of faulty installation or application. This is the responsibility of the installer.
4. Failure to start due to voltage conditions, blown fuses, open circuit breakers, or any other damages due to the inadequacy or interruption of electrical services.
5. Damage or repairs needed as a consequence of any misapplication, abuse, unauthorized alteration, improper servicing or operation.
6. Damage as a result of floods, winds, fires, lightning, accidents, corrosive environments, or other conditions beyond the control of CARRIER.
7. Damage, after one year of installation, as a result of corrosion from installation or operation of the product within one mile of a seawater body.
8. Any parts not supplied or designated by CARRIER.
9. CARRIER products installed outside the continental U.S.A. and Canada.
10. Shipping damage or damage as a result of storing or transporting the unit.

This Warranty gives you specific rights, and you may also have other rights which vary from state to state or province to province.

IF YOUR UNIT DOES NOT WORK, FOLLOW THESE STEPS IN ORDER:

1. Check the things you can do yourself. These include being sure the air conditioner is plugged in firmly in an appropriate receptacle, checking the fuse or circuit breaker and ensuring its replacement or resetting, if necessary, and rereading the instruction book to ensure all controls are set properly. By doing this you can save money. Many unnecessary calls result in the servicer doing what the owner can do for himself.
2. CONTACT CARRIER IF A SATISFACTORY SOLUTION IS NOT REACHED

Carrier Corporation
National Service Center
Telephone: 1-800-894-6449

Product Registration

Record Your Model and Serial Numbers

Record in the space provided below the model and serial numbers. On most models, the serial plate is located on the outside of the cabinet. On some models, remove the filter and look at the bottom edge of the air conditioner behind the front grille for the model and serial numbers.

Model No. _____

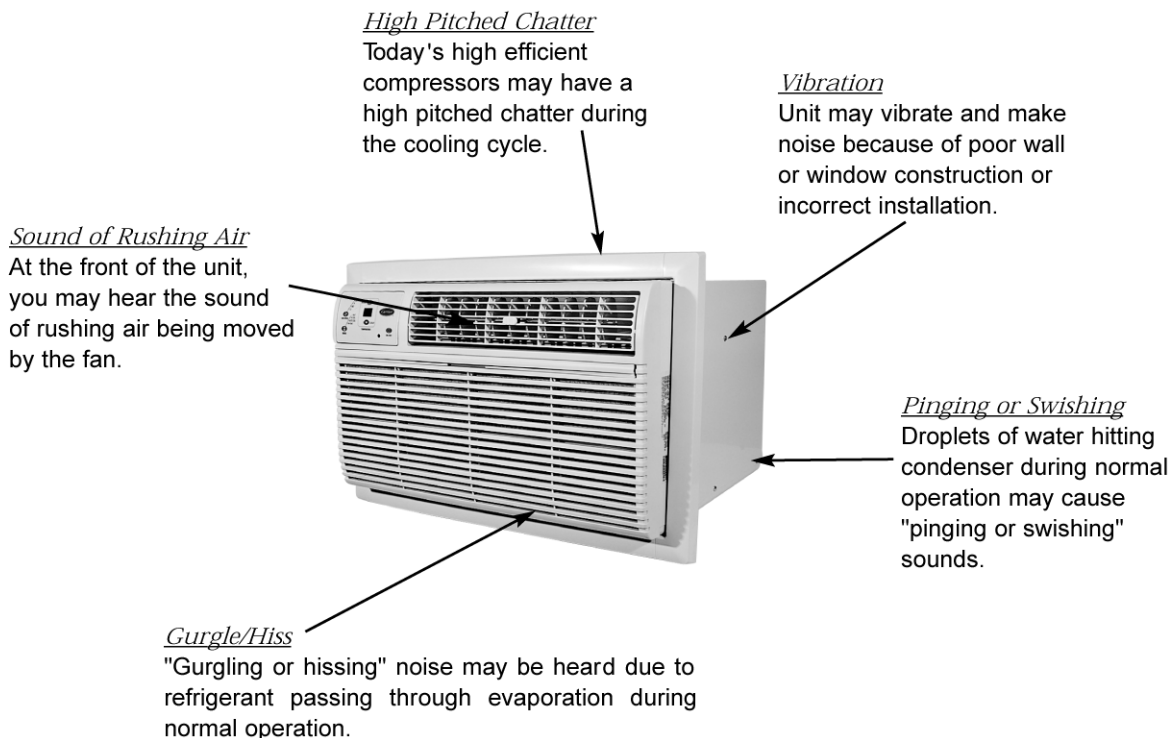
Serial No. _____

Contents

NOTE: This Owner's Guide provides specific operating instructions for your model. Use the room air conditioner only as instructed in this Owner's Guide. These instructions are not meant to cover every possible condition and situation that may occur. Common sense and caution must be practiced when installing, operating, and maintaining any appliance.

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3	Product Registration
3	Normal Sounds
4	Important Safety Instructions
4	Energy Saving Ideas
5	Using Air Conditioner
5-9	Air Conditioner Features
9	Care and Cleaning
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Normal Sounds



Important Safety Instructions

Read all instructions before using this air conditioner

⚠ WARNING For Your Safety

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance. Read product labels for flammability and other warnings.

Be sure to unplug the unit before cleaning or performing other maintenance to prevent electric shock or fire which could cause serious injury or death.

⚠ 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 either on the side of the cabinet or behind the grille.
- If the air conditioner is to be installed in a window, you will probably 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 separate installation instructions provided with this manual. Save this manual and the installation instructions for possible future use in removing or reinstalling this unit.
- When handling the air conditioner, be careful to avoid cuts from sharp metal fins on front and rear coils.

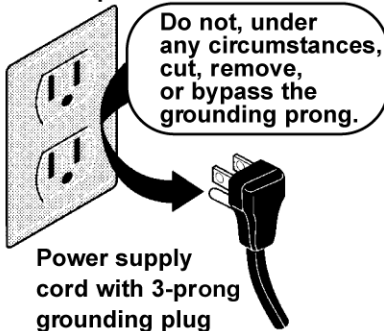
⚠ WARNING Electrical Information

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.
- Do not run air conditioner with outside protective cover in place. This could result in mechanical damage within the air conditioner.
- **Do not use an extension cord or an adapter plug.**

⚠ WARNING Avoid fire hazard or electric shock. Do not use an extension cord or an adaptor plug. Do not remove any prong from the power cord.

Grounding type wall receptacle



Power supply cord with 3-prong grounding plug

Energy Saving Ideas



- **Do not block air flow inside with blinds, curtains or furniture; or outside with shrubs, enclosures, or other buildings.**
- The capacity of the room air conditioner must fit the room size for efficient and satisfactory operation.
- Install the room air conditioner on the shady side of your home. A window that faces north is best because it is shaded most of the day.
- Close the fireplace damper, floor and wall registers so cool air does not escape up the chimney and into the duct work.
- Keep blinds and drapes in other windows closed during the sunniest part of the day.
- Clean the air filter as recommended in the section "Care and Cleaning."
- Proper insulation and weather stripping in your home will help keep warm air out and cool air in.
- External house shading with trees, plants or awnings will help reduce the air conditioner's work load.
- Operate heat producing appliances such as ranges, washers, dryers and dishwashers during the coolest part of the day.

Using Air Conditioner

⚠ WARNING To reduce the risk of fire, electric shock, or injury to persons, read the IMPORTANT SAFETY INSTRUCTIONS before operating this appliance.

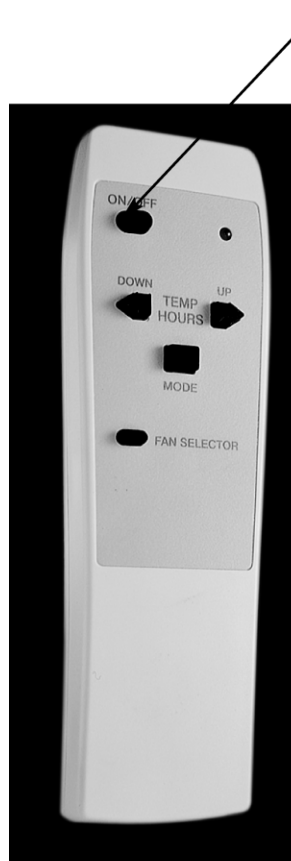
To begin operating the air conditioner or heater, follow these steps:

1. Plug in the air conditioner. (To prevent electrical hazards, do not use an extension cord or an adapter plug.)
 2. Press "On/Off" button to turn unit on.
 3. Press "COOL" Mode for air conditioning, or press "HEAT" Mode for heating.
 4. Press "Temperature" cooler ∨ or warmer ∧ to the desired set temperature.
- Review the "Air Conditioner Features" section for other settings.

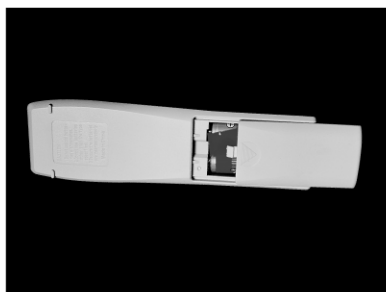
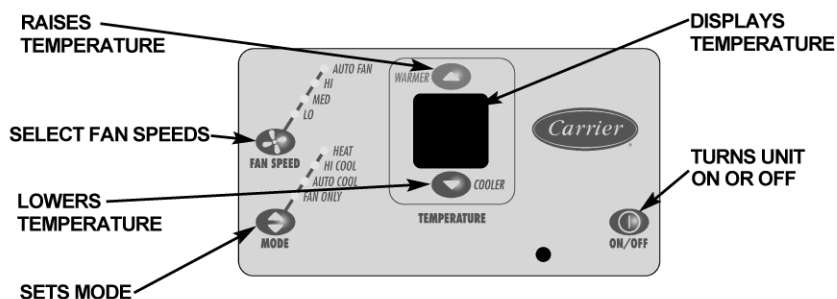
Air Conditioner Features

ELECTRONIC CONTROL OPERATING INSTRUCTIONS

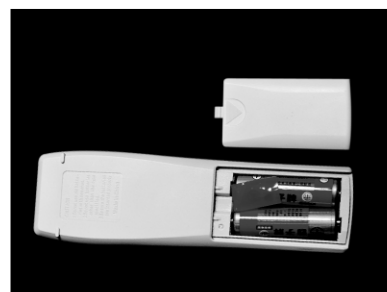
Before you begin, thoroughly familiarize yourself with the control panel and remote as shown below and all its functions. Then follow the symbol for the functions you desire. The unit can be controlled by the touch pad alone or with the remote.



REMOTE CONTROL



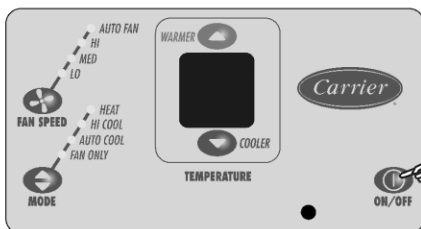
SLIDE BATTERY COVER OFF



REMOVE THE TAB

Air Conditioner Features (continued)

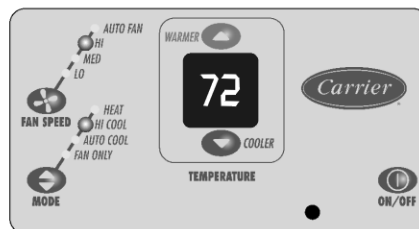
TO TURN UNIT ON:



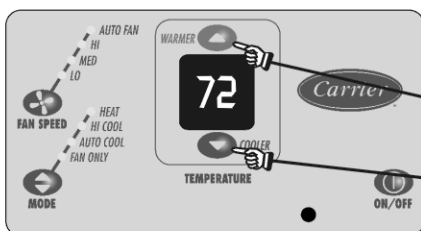
DO THIS:

PRESS ON/OFF
BUTTON

YOU WILL SEE:



TO CHANGE TEMPERATURE SETTING:

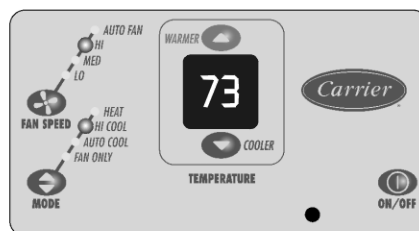


DO THIS:

PRESS TO RAISE

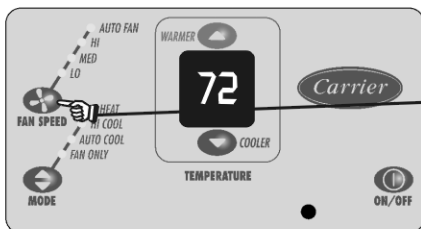
PRESS TO LOWER

YOU WILL SEE:



Note: PRESS or hold either the warmer(▲) or cooler(▼) button until the desired temperature is seen on display. This temperature will be automatically maintained anywhere between 60F (16°C) and 90F (32°C) for cooling mode. The Temperature will be automatically maintained anywhere between 55F (13°C) and 80F (27°C) for heating mode. If you want the display to read the actual room temperature, see fan only mode.

TO CHANGE FAN SPEEDS:

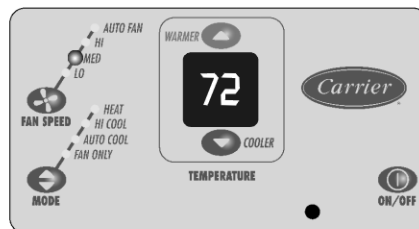


DO THIS:

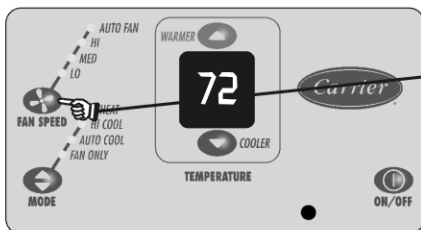
PRESS FAN
SPEED BUTTON

SELECT SPEED

YOU WILL SEE THE SPEED CHOSEN:



TO USE AUTO FAN FEATURE:

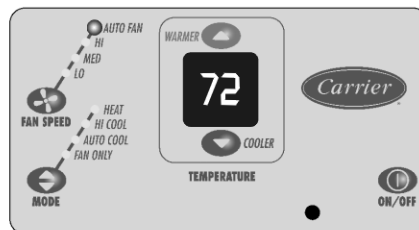


DO THIS:

PRESS FAN
SPEED BUTTON

SELECT
AUTO FAN

YOU WILL SEE:

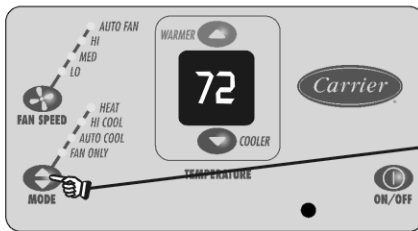


Note: Auto fan speed will begin in HI, then adjust to MED and LO as the room temperature conditions indicate. For example in cooling, if the room doesn't get too warm it will stay at LO. If the room temperature rises quickly, such as a door being opened, it will automatically go to HI speed. The fan speeds will adjust back to LO as the room returns to the original set temperature.

Air Conditioner Features (continued)

TO OPERATE ON FAN ONLY:

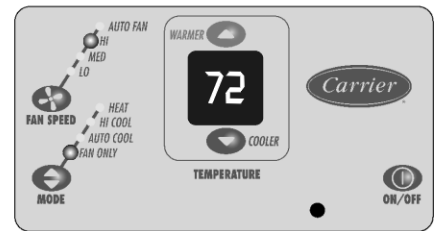
YOU WILL SEE:



DO THIS:

PRESS
MODE BUTTON

CHOOSE
FAN ONLY



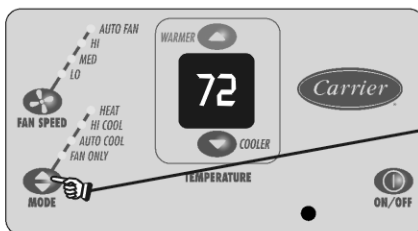
Note: Use this function only when cooling is not desired, such as for room air circulation.

You can choose any fan speed you prefer.

During this function, the display will show the actual current temperature, not the set temperature as in the cooling mode.

TO USE THE AUTO COOL FEATURE:

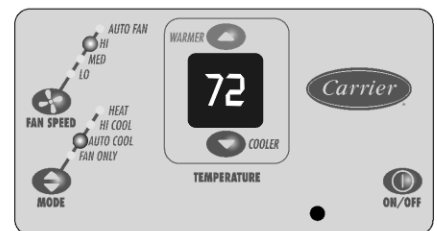
YOU WILL SEE:



DO THIS:

PRESS
MODE BUTTON

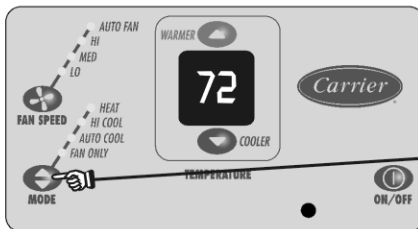
CHOOSE
AUTO COOL



Note: In this mode, the fan will continue to run for 3 minutes after the compressor shuts off. The fan then cycles on for 2 minutes at 10 minute intervals until the room temperature is above the set temperature, at which time the unit turns back on.

HEATING FEATURE (on some models):

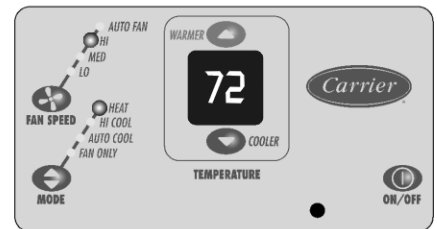
YOU WILL SEE:



DO THIS:

PRESS
MODE BUTTON

SELECT HEAT

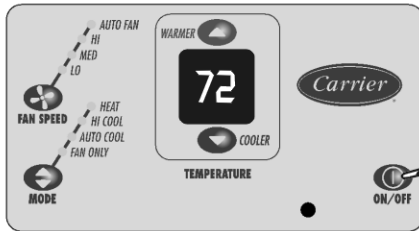


Note: This feature can be used with any combination of FAN Speeds. When in the "Heat" Mode, the fan will run continuously while heat is needed. The temperature will automatically be maintained anywhere between 55F (13°C) and 80F (27°C). When the room set temperature is satisfied, the fan will cycle off for 10 minutes, and then on for 1 minutes to circulate and sample the room air.

Air Conditioner Features

(continued)

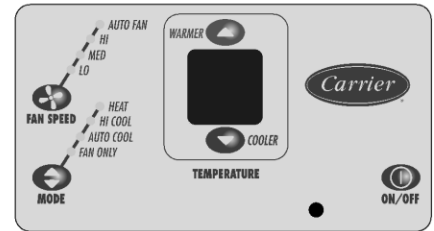
TO TURN UNIT OFF:



DO THIS:

PRESS ON/OFF
BUTTON

YOU WILL SEE:



ADDITIONAL THINGS YOU SHOULD KNOW

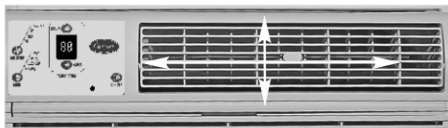
Now that you have mastered the operating procedure, here are more features in your control that you should know.

- The Remote Control will operate all the control panel features, follow the same instructions.
- The "Cool" circuit has an automatic 3 minute time delayed start if the unit is turned off and on quickly. This prevents overheating of the compressor and possible circuit breaker tripping. The fan will continue to run during this time.
- The control will maintain any set temperature between 60F and 90F degrees (cooling), 55F and 80F (heating).
- **The control is capable of displaying temperature in degrees Fahrenheit or degrees Celsius. To convert from one to the other, press and hold the Up and Down Temperature Selection Pads at the same time for 3 seconds.**

Air Conditioner Features (continued)

4-Way Air Directional Louvers

The 4-Way air directional louvers allow you to direct air flow up or down, left or right throughout the room as needed. To adjust the air directional louvers side-to-side, use the center handle as you move it side-to-side.



Care and Cleaning

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

Air Filter Cleaning

The air filter should be checked at least once a month to see if cleaning is necessary. Trapped particles in the filter can build up and cause an accumulation of frost on the cooling coils.

- Grasp the filter by the center and pull up and out.
- Wash the filter using liquid dishwashing detergent and warm water. Rinse filter thoroughly. Gently shake excess water from the filter. Be sure filter is thoroughly dry before replacing.
- Or, instead of washing you may vacuum the filter clean.

Cabinet Cleaning

- Be sure to unplug the air conditioner to prevent shock or fire hazard. The cabinet and front may be dusted with an oil-free cloth or washed with a cloth dampened in a solution of warm water and mild liquid dishwashing detergent. Rinse thoroughly and wipe dry.
- Never use harsh cleaners, wax or polish on the cabinet front.
- Be sure to wring excess water from the cloth before wiping around the controls. Excess water in or around the controls may cause damage to the air conditioner.
- Plug in air conditioner.

Winter Storage

If you plan to store the air conditioner for the winter, cover it with plastic or return it to the original carton.

NOTE: To prevent rust or electrical connections from being damaged, store air conditioner in an upright position and a dry place.



Avoid Service Checklist

Before calling for service, review this list. It may save you time and expense. This list includes common occurrences that are not the result of defective workmanship or materials in this appliance.

OCCURRENCE	SOLUTION
Air conditioner will not operate.	Wall plug disconnected. Push plug firmly into wall outlet.
	House fuse blown or circuit breaker tripped. Replace fuse with time delay type or reset circuit breaker.
	Control is OFF. Turn Control ON and set to desired FAN or COOL setting.
	Unit turned off and then on too quickly, wait 3 minutes before compressor will automatically restart.
	Thermostat set too HI. Adjust thermostat to lower number for cooling.
Air from unit does not feel cold enough.	Room temperature below 60F (16°C). Cooling may not occur until room temperature rises above 60F (16°C).
	Temperature sensor touching cold coil, located behind air filter.
	Reset to a Lower temperature.
	Compressor shut - off by changing modes. Wait approximately 3 minutes, and listen for compressor to restart when set in the COOL modes.
Air conditioner cooling, but room is too warm—ice forming on cooling coil behind decorative front.	Outdoor temperature below 60F (16°C). To defrost the coil, set selector to FAN ONLY Mode.
	Air filter may be dirty. Clean filter. Refer to Care and Cleaning section. To defrost, set selector to FAN ONLY Mode.
	Temperature is set too Low for night-time cooling. To defrost the coil, set to FAN ONLY Mode. Then, set Temperature to a Higher number.
Air conditioner cooling, but room is too warm—NO ice forming on cooling coil behind decorative front.	Dirty air filter - air restricted. Clean air filter. Refer to Care and Cleaning section.
	Temperature is set too High. Set temperature to a Lower number.
	Air directional louvers positioned improperly. Position louvers for better air distribution.
	Front of unit is blocked by drapes, blinds, furniture, etc. - restricts air distribution. Clear blockage in front of unit.
	Doors, windows, registers, etc. open - cold air escapes. Close doors, windows, registers, etc.
	Unit recently turned on in hot room. Allow additional time to remove "stored heat" from walls, ceiling, floor and furniture.
Air conditioner turns on and off rapidly.	Dirty air filter - air restricted. Clean air filter.
	Outside temperature extremely hot. Set FAN speed to a faster setting to bring air past cooling coils more frequently.
Noise when unit is cooling.	Air movement sound. This is normal. If too loud, set to a slower FAN setting.
	Sound of fan hitting water - moisture removal system. This is normal when humidity is high. Close doors, windows and registers.
	Window vibration - poor installation. Refer to installation instructions or check with installer.
Water dripping INSIDE when unit is cooling.	Improper installation. Tilt air conditioner slightly to the outside to allow water drainage. Refer to installation instructions - check with installer.
Water dripping OUTSIDE when unit is cooling.	Unit removing large quantity of moisture from humid room. This is normal during excessively humid days.