

# CARRIER

52F Series

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## OWNER'S GUIDE

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READ AND SAVE THESE INSTRUCTIONS

# AIR CONDITIONER

ROTARY 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 HERIN. 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. Remove the filter and look at the bottom edge of the air conditioner behind the front grille for the model and serial numbers. Reading these numbers may be easier by using a flashlight or by removing the cabinet front as instructed under "Care and Cleaning."

**Model No.** \_\_\_\_\_

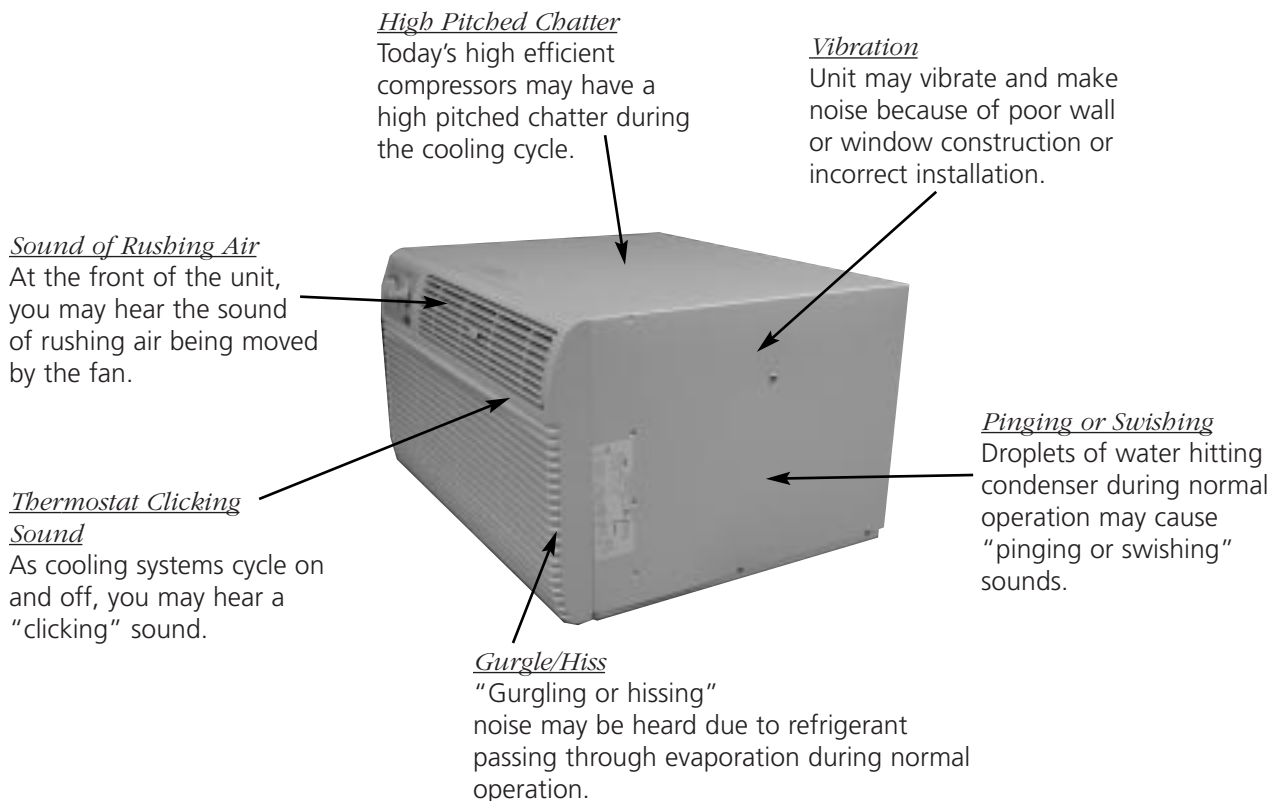
**Serial No.** \_\_\_\_\_

## 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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## 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.

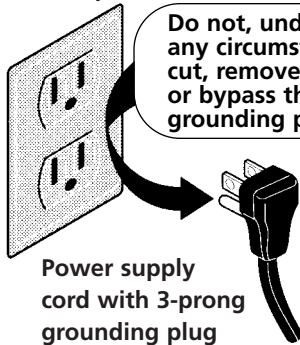
## **⚠️ WARNING Electrical Information**

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 water 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.

**NOTE:** If the air conditioner is turned off, wait 3 minutes before restarting. This allows pressure inside the compressor to equalize. Failure to follow these instructions may cause inefficient operation.

### To begin operating the air conditioner, follow these steps:

1. Plug in the air conditioner. (To prevent electrical hazards, do not use an extension cord or an adapter plug.)
2. Set the thermostat to the highest number (coldest or cooler setting).
3. Set the selector control to the highest FAN or COOL setting (see below).
4. Adjust the louvers for comfortable air flow (see Air Directional Louvers).
5. Once the room has cooled, adjust the thermostat to the setting you find most comfortable.

Review the "Air Conditioner Features" section for other settings.

## Air Conditioner Features

*The controls featured in this manual are representational of the many models available. Your model may offer slightly different features.*



### Selector Control

The selector control turns the unit on or off and allows a choice of either cooling room air, circulating room air at the existing temperature, or heating room air.

### COOL/FAN

Operate COOL/FAN modes according to the following suggestions:

- ON/OFF or OFF = Turns air conditioner on and off.
- HIGH COOL = Maximum cooling speed. Begin operation of the air conditioner in this mode.
- LOW COOL = Fan runs slow for quiet operation when maximum cooling is not needed.
- HIGH FAN = Maximum air circulation without cooling.
- LOW FAN = Slow air circulation without cooling.



### HEAT

The HEAT selection provides quiet, efficient circulation of warm air. Turn the selector to the HEAT setting and set the thermostat at WARMER setting. When the HEAT setting is selected, the thermostat maintains the temperature by automatically turning the heater on and off in response to room temperature. The fan runs continuously to circulate air in the room.

Once the room is warm, adjust the thermostat to a less warm position. This provides less heat, or cooler temperatures.

A slight heat odor may come from the unit when first switching to HEAT after the cooling season is over. This odor, caused by fine dust particles on the heater, will disappear quickly.

### Automatic Thermostat

When a COOL or HEAT setting is selected, the thermostat controls the amount of cooling or heating by automatically turning the cooling compressor or heater on and off in response to the room temperature.



## Air Conditioner Features (continued)

### Automatic Thermostat (continued)

Set the thermostat at the COOLER setting for cooling, and the warmer setting in the HEAT mode. Once the room has reached the desired temperature, adjust the thermostat to a setting providing the most comfortable amount of cooling or heating. COOLER provides lower room temperatures. WARMER provides higher room temperatures.

### Night Time Cooling

When outside temperatures drop below 70°F (21°C) and the unit is cooling, frost may form on the coils and block airflow into the room. If this occurs, operate the air conditioner on the FAN setting to defrost the coil.

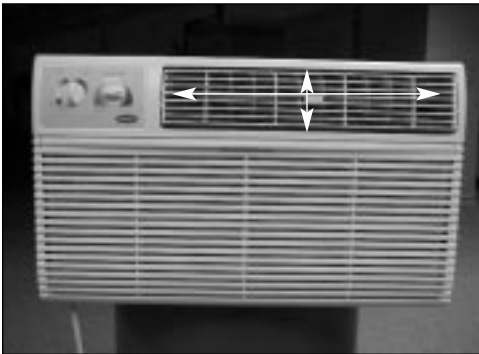
If cooling while the outside temperature is low, set the thermostat to the middle position. Make sure the louvers are open. This will help prevent frost build-up.

### Air Directional Louvers

Air directional louvers control air flow direction.

### 4-Way 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.

**⚠️ WARNING** Be sure to unplug the unit before cleaning to prevent electric 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.

- Tilt the Horizontal Louvers in the UP position, before pulling the filter out.
- 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.
- The cabinet front can be removed for more thorough cleaning. Refer to "Front Removal" in this manual.
- Clean the front in a sink using liquid dishwashing detergent and warm water. Rinse thoroughly and dry.
- Replace cabinet front. Replace the screws.
- Replace front panel (if applicable) and filter. Plug in air conditioner.



### Front Removal

To remove the front for more thorough cleaning follow these steps:

- Unplug power cord from the wall outlet.
- Remove knobs by firmly pulling (these knobs are interchangeable).
- Remove the filter to expose the two (2) screws holding the front in place.
- Remove the two (2) screws and save for replacing.
- Press firmly on each side of the cabinet close to the front, approximately half way down.
- While pressing on the sides of the cabinet, gently pull the front out and lift up to release it from the cabinet.
- Clean as instructed in Care and Cleaning. Reinstall the front when dry by reversing the above instructions.

# 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.

Selector Control in OFF position. Turn selector to ON (some models) or the desired FAN or COOL setting.

Unit turned off by moving thermostat to a higher number and then immediately turning back to a colder number. Wait approximately 3 minutes. Listen for compressor to start.

Unit turned off and then on too quickly. Turn unit off and wait 3 minutes before restarting.

Thermostat set too low. Adjust thermostat to higher number for cooling.

**Air from unit does not feel cold enough.**

Turn selector to a higher FAN or COOL position

Thermostat set too warm. Set thermostat to colder temperature.

Room temperature below 70°F (21°C). Cooling may not occur until room temperature rises above 70°F (21°C).

Temperature sensing tube touching cold coil, located behind air filter. Straighten tube away from coil.

**Air conditioner cooling, but room is too warm — ice forming on cooling coil behind decorative front.**

Outdoor temperature below 70°F (21°C). To defrost the coil, set selector to FAN position. Then, set thermostat to warmer position.

Air filter may be dirty. Clean filter. Refer to Care and Cleaning section. To defrost, set selector to FAN.

Thermostat set too cold for night-time cooling. To defrost the coil, set selector to a FAN position. Then, set thermostat to a warmer position.

**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.

Thermostat set too warm. Turn thermostat clockwise to a colder setting.

Thermostat set on low number. Turn thermostat to higher number.

Air directional louvres positioned improperly. Position louvres 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 on high speed to bring air past cooling coils more frequently.

**Noise when unit is cooling.**

Air movement sound. This is normal. If too loud, turn selector to lower FAN setting.

Sound of fan hitting water-moisture removal system. This is normal when humidity is high. Close doors, windows and registers.

**Water dripping INSIDE when unit is cooling.**

Improper installation. 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.



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