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A Guide To Operating and Maintaining Your Single-Package Electric Cooling Unit

NOTE TO INSTALLER

This manual should be left with the equipment owner.

FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

⚠ WARNING

Do not use this unit if any part has been under water. Immediately call a qualified service technician to inspect the unit and to replace any part of the control system which has been under water. Failure to follow this warning could result in electrical shock, fire, personal injury, or death.

⚠ WARNING

Before performing recommended maintenance, be sure the main power switch to unit is turned off. Electric shock could cause personal injury or death.

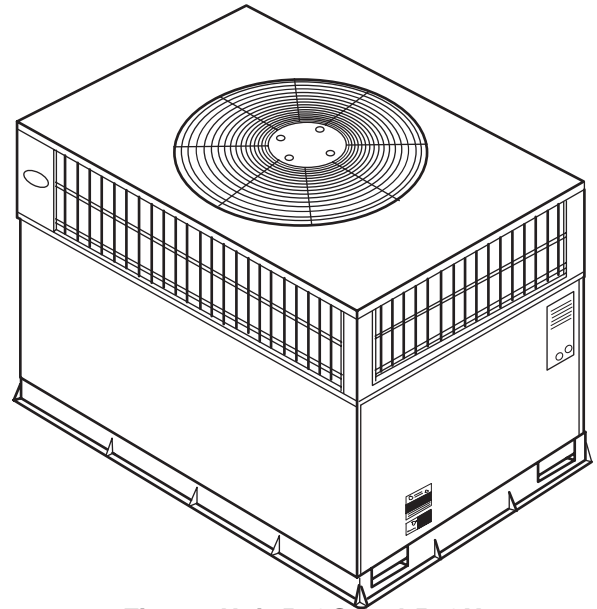


Fig. 1—Unit 50GS and 50GX

TO START UNIT

Step 1—Turn on the electrical power supply to unit.

Step 2—Select temperature and set system switch to desired mode.

TO SHUT UNIT OFF

If unit is being shut down because of a malfunction, call your dealer as soon as possible.

Step 1—Set temperature switch to OFF.

Step 2—Turn off the electrical power supply to unit.

ROUTINE MAINTENANCE

All routine maintenance should be handled by skilled, experienced personnel. Your dealer can help you establish a standard procedure.

For your safety, keep the unit area clear and free of combustible materials, gasoline, and other flammable liquids and vapors.

To assure proper functioning of the unit, flow of condenser air must not be obstructed from reaching the unit. Clearance of at least 48 in. is required from top of unit and on sides except the power entry side (42 in. clearance) and the duct side (12 in. minimum clearance).

MAINTENANCE AND CARE FOR THE EQUIPMENT OWNER

Before proceeding with those things you might want to maintain yourself, please carefully consider the following:

⚠ WARNING

1. TURN OFF ELECTRICAL POWER TO YOUR UNIT BEFORE SERVICING OR PERFORMING MAINTENANCE.
2. When removing access panels or performing maintenance functions inside your unit, be aware of sharp sheet metal parts and screws. Although special care is taken to reduce sharp edges to a minimum, be extremely careful when handling parts or reaching into the unit.

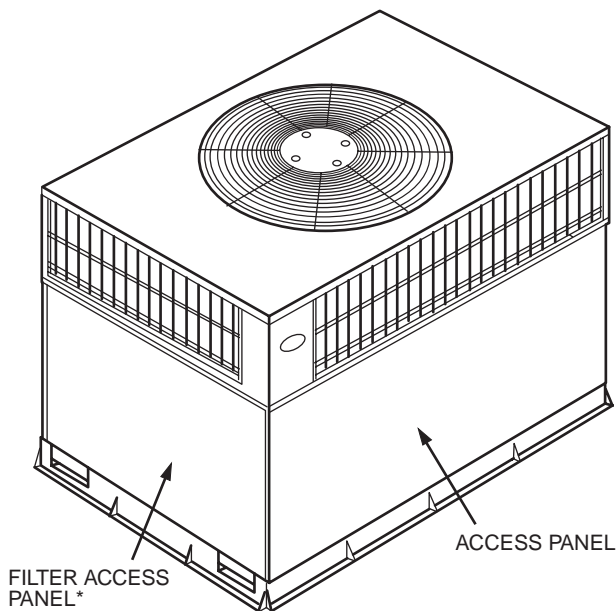
AIR FILTERS — Air filter(s) should be checked at least every 3 or 4 weeks and changed or cleaned whenever it becomes dirty. Dirty filters produce excessive stress on the blower motor and can cause the motor to overheat and shut down. Table 1 indicates the correct filter size for your unit. Refer to Fig. 2 to access the filter(s).

To replace or inspect filter(s) (or accessory filter rack when supplied):

1. Remove the filter access panel using a 5/16-in. nut driver.
2. Remove the filter(s) by pulling the filter(s) out of the unit. If the filter(s) is dirty, clean or replace with new one.

When installing the new filter(s), note the direction of the airflow arrows on the filter frame.

If you have difficulty in locating your air filter(s), or if you have questions concerning proper filter maintenance, contact your dealer for instructions. When replacing filters, always use the same size and type of filter that was supplied originally by the installer.



*For accessory filter rack.

Fig. 2—Filter Access Panel—Vertical Supply Shown

Table 1—Indoor-Air Filter Data

UNIT SIZE	FILTER SIZE
50GS018-030	20x20
50GS036-042	20x24
50GS048-060	24x30
50GX024-030	20x20
50GX036	20x24
50GX042-060	24x30

⚠ WARNING

Never operate your unit without filters in place. Failure to heed this warning may result in damage to the blower motor and/or compressor. An accumulation of dust and lint on internal parts of your unit can cause loss of efficiency and, in some cases, fire.

FANS AND FAN MOTOR — Periodically check the condition of fan wheels and housings and fan-motor shaft bearings. No lubrication of condenser- or evaporator-fan bearings or motors is required or recommended.

EVAPORATOR AND CONDENSER COILS — Cleaning of the coils should only be done by qualified service personnel. Contact your dealer for the required annual maintenance.

CONDENSATE DRAIN — The drain pan and condensate drain line should be checked and cleaned at the same time the cooling coils are checked by your dealer.

COMPRESSOR — All compressors are factory-shipped with a normal charge of the correct type refrigeration grade oil in them and should rarely require additional oil.

CONDENSER FAN

⚠ WARNING

Do not poke sticks, screwdrivers, or any other object into revolving fan blades. Severe bodily injury may result.

The fan must be kept free of all obstructions to ensure proper cooling. Contact your dealer for any required service.

ELECTRICAL CONTROLS AND WIRING — Electrical controls are difficult to check without proper instrumentations; therefore, if there are any discrepancies in the operating cycle, contact your dealer and request service.

REFRIGERANT CIRCUIT — The refrigerant circuit is difficult to check for leaks without the proper equipment; therefore, if inadequate cooling is suspected, contact your local dealer for service.

⚠ WARNING

System under pressure. Relieve pressure and recover all refrigerant before system repair or final unit disposal to avoid personal injury or death. Use all service ports and open all flow-control devices, including solenoid valves.

UNIT PANELS — After performing any maintenance or service on the unit, be sure all panels are fastened securely in place to prevent rain from entering unit cabinet and to prevent disruption of the correct unit airflow pattern.

REGULAR DEALER MAINTENANCE

In addition to the type of routine maintenance you might be willing to perform, your unit should be inspected regularly by a properly trained service technician. An inspection (preferably each year, but at least every other year) should include the following:

1. Inspection and, if required, cleaning of the condenser and evaporator coils.
2. Inspection and, if required, cleaning of the evaporator drain pan.
3. Inspection and cleaning of blower wheel housing and motor.
4. Inspection of all supply-air and return-air ducts for leaks, obstructions, and insulation integrity. Any problems found should be resolved at this time.
5. Inspection of the unit base to ensure that no cracks, gaps, etc., exist which may cause a hazardous condition.
6. Inspection of the unit casing for signs of deterioration.
7. Inspection of all electrical wiring and components to assure proper connection.
8. Inspection for leaks in the refrigerant circuit. Pressure-check to determine appropriate refrigerant charge.
9. Inspection of compressor oil level by service person to ensure proper oil level is maintained in the compressor when it is installed and running.
10. Operational check of the unit to determine working conditions. Repair or adjustment should be made at this time.

Your servicing dealer may offer an economical service contract that covers seasonal inspections. Ask for further details.

Complete service instructions can be found in the unit Installation, Start-Up and Service Instructions.

WARRANTY CERTIFICATES

Unit 50GS and 50GX have limited warranties. Certificates are located at the back of this book. Be sure to read the warranty carefully to determine the coverage for your unit.

BEFORE YOU CALL FOR SERVICE, CHECK FOR SEVERAL EASILY-SOLVED PROBLEMS

If insufficient heating or cooling is suspected:

() Check for sufficient airflow. Check the air filter for dirt. Check for blocked return-air or supply-air grilles. Be sure they are open and unobstructed. If these checks do not reveal the cause, call your servicing dealer.

If your unit is not operating at all, check the following list for easy solutions:

() Check to be sure that your thermostat temperature selector is set below the indoor temperature during the cooling season. Be sure the system switch is in the COOL position and not in the OFF position.

() If your unit still fails to operate, call your servicing dealer for troubleshooting and repairs. Specify the model and serial numbers of your unit. (Record them in this manual in the space provided.) If the dealer knows exactly which unit you have, he may be able to offer suggestions over the phone, or save valuable time through knowledgeable preparation for the service call.

IN CASE OF TROUBLE

If after performing the above and unit performance is still unsatisfactory, shut off the unit and call your dealer.

Dealer's Name

Telephone

Unit Model

Unit Serial Number

CARRIER CORPORATION



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

- FIRST:** Contact the installer. You may find his name on the product or in your Homeowner's Packet. If his name is not known, call your builder if yours is a new residence.
- SECOND:** Contact the nearest CARRIER distributor. (See telephone yellow pages.)
- THIRD:** Contact:

CARRIER CORPORATION
 Consumer Relations Department
 P.O. Box 4808
 Syracuse, New York 13221
 1-800-CARRIER (227-7437)

Unit Model No. _____ Unit Serial No. _____
 Date of Installation _____ Installed by _____
 Name of Owner _____ Address of Installation _____

IMPORTANT! **IMPORTANT!**
Please Fill Out And Return Within The Next 10 Days.

1. Mr. 2. Mrs. 3. Ms. 4. Miss
 First Name _____ Initial _____ Last Name _____
 Street _____ Apt. No. _____
 City _____ State _____ ZIP Code _____

6. Energy efficiency
 7. Location of dealer
 8. Dealer's installation policy
 9. Friend's/relative's recommendation
 10. Contractor's/dealer's recommendation
 11. Other _____

1. No one else in household
 Male Female Age
 1. 2. years 1. 2. years
 1. 2. years 1. 2. years

1. Married 3. Widowed
 2. Divorced/Separated 4. Never Married (Single)

Homemaker _____ You _____ Spouse _____
 Professional/Technical _____ 1.
 Upper Management/Executive _____ 2.
 Middle Management _____ 3.
 Sales/Marketing _____ 4.
 Clerical or Service Worker _____ 5.
 Tradesman/Machine Oper./Laborer _____ 6.
 Retired _____ 7.
 Student _____ 8.
 Self Employed/Business Owner _____ 9.
 _____ 10.

1. Under \$15,000 7. \$40,000-\$44,999
 2. \$15,000-\$19,999 8. \$45,000-\$49,999
 3. \$20,000-\$24,999 9. \$50,000-\$59,999
 4. \$25,000-\$29,999 10. \$60,000-\$74,999
 5. \$30,000-\$34,999 11. \$75,000-\$99,999
 6. \$35,000-\$39,999 12. \$100,000 & over

Some High School or Less _____ You _____ Spouse _____
 Completed High School _____ 1.
 Vocational/Technical School _____ 2.
 Some College _____ 3.
 Completed College _____ 4.
 Some Graduate School _____ 5.
 Completed Graduate School _____ 6.
 _____ 7.

1. American Express, Diners Club
 2. MasterCard, Visa, Discover
 3. Department Store, Oil Company, etc.
 4. Do not use credit cards

1. Own a House?
 2. Own a Townhouse or Condominium?
 3. Rent a House?
 4. Rent an Apartment, Townhouse or Condominium?

CARRIER CORPORATION



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

- FIRST:** Contact the installer. You may find his name on the product or in your Homeowner's Packet. If his name is not known, call your builder if yours is a new residence.
- SECOND:** Contact the nearest CARRIER distributor. (See telephone yellow pages.)
- THIRD:** Contact:
 CARRIER CORPORATION
 Consumer Relations Department
 P.O. Box 4808
 Syracuse, New York 13221
 1-800-CARRIER (227-7437)

Unit Model No. _____ Unit Serial No. _____
 Date of Installation _____ Installed by _____
 Name of Owner _____ Address of Installation _____

IMPORTANT! **IMPORTANT!**
 Please Fill Out And Return Within The Next 10 Days.

1. Mr. Mrs. Ms. Miss Other
 First Name _____ Initial _____ Last Name _____
 Street _____ Apt. No. _____
 City _____ State _____ ZIP Code _____

2. Date of installation: _____ Month _____ Day _____ Year _____

3. Important! For proper registration, please fill in the model number, and serial number of this product:
 A. Model Number: _____
 B. Serial Number: _____

4. What type of product is this?
 1. Central Air Conditioner 6. Heat Recovery Ventilator
 2. Gas Furnace 7. Thermostat
 3. Oil Furnace 8. Zoning
 4. Electric Furnace
 5. Heat Pump

5. A. Price paid for this product (excluding installation charges and sales tax): \$ _____ .00
 B. Price paid for installation: \$ _____ .00

6. Name of company that sold you this product: _____

7. When did you acquire your product?
 1. Upon purchase of a new dwelling.
 2. To replace an older system of the same brand.
 3. To replace an older system of another brand.
 4. Within a year after purchasing a dwelling with no central air.
 5. 2-4 years after buying a dwelling with no central air system.
 6. Over 4 years after buying a dwelling with no central air system.

8. If you replaced an older system, approximately how old was that system?
 1. Don't know 6. 15-17 years
 2. 1-5 years 7. 18-20 years
 3. 6-8 years 8. 21-24 years
 4. 9-11 years 9. Over 24 years
 5. 12-14 years

9. If this is a replacement, what brand did you previously own?
 1. Amana 6. Janitrol 11. Snyder
 2. Bryant 7. Lennox 12. Tempstar
 3. Carrier 8. Payne 13. Trane
 4. Day & Night 9. Rheem 14. York
 5. Heil 10. Ruud 15. Other _____

10. What factors most influenced your selection of this product? (Check a maximum of two.)
 1. Brand reputation
 2. Dealer reputation
 3. Previous experience with products of this brand
 4. Previous experience with this dealer
 5. Price

11. Date of birth of person whose name appears above: _____ | _____ | 1 | 9 |
 Month Year

12. Excluding yourself, what is the SEX and AGE (in years) of children and other adults living in your household?
 1. No one else in household
 Male Female Age
 1. 2. _____ years 1. 2. _____ years
 1. 2. _____ years 1. 2. _____ years

13. Marital Status: 1. Married 3. Widowed
 2. Divorced/Separated 4. Never Married (Single)

14. Occupation: You Spouse
 Homemaker _____ 1. _____ 2. _____
 Professional/Technical _____ 3. _____ 4. _____
 Upper Management/Executive _____ 5. _____ 6. _____
 Middle Management _____ 7. _____ 8. _____
 Sales/Marketing _____ 9. _____ 10. _____
 Clerical or Service Worker _____ 11. _____ 12. _____
 Tradesman/Machine Oper./Laborer _____ 13. _____ 14. _____
 Retired _____ 15. _____ 16. _____
 Student _____ 17. _____ 18. _____
 Self Employed/Business Owner _____ 19. _____ 20. _____

15. Which group describes your annual family income?
 1. Under \$15,000 7. \$40,000-\$44,999
 2. \$15,000-\$19,999 8. \$45,000-\$49,999
 3. \$20,000-\$24,999 9. \$50,000-\$59,999
 4. \$25,000-\$29,999 10. \$60,000-\$74,999
 5. \$30,000-\$34,999 11. \$75,000-\$99,999
 6. \$35,000-\$39,999 12. \$100,000 & over

16. Education: (please check those which apply)
 Some High School or Less _____ 1. _____
 Completed High School _____ 2. _____
 Vocational/Technical School _____ 3. _____
 Some College _____ 4. _____
 Completed College _____ 5. _____
 Some Graduate School _____ 6. _____
 Completed Graduate School _____ 7. _____

17. Which credit cards do you use regularly?
 1. American Express, Diners Club
 2. MasterCard, Visa, Discover
 3. Department Store, Oil Company, etc.
 4. Do not use credit cards

18. For your primary residence, do you:
 1. Own a House?
 2. Own a Townhouse or Condominium?
 3. Rent a House?
 4. Rent an Apartment, Townhouse or Condominium?

Extended Protection Limited Warranty

LIMITED ONE-YEAR WARRANTY—This CARRIER product is warranted to be free from defects in material and workmanship under normal use and maintenance for a period of one year from the date of original installation, whether or not actual use begins on that date. A new or remanufactured part to replace any defective part will be provided, within a reasonable time after return of the defective part, at Carrier's sole option without charge for the part itself, PROVIDED the defective part is returned to our distributor. This warranty applies only to the product in its original installation location and is voided if the product is reinstalled elsewhere.

THIS WARRANTY DOES NOT INCLUDE LABOR or other costs incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts or replacement parts. SUCH COSTS MAY BE COVERED BY a separate warranty provided by the installer.

EXTENDED LIMITED NINE-YEAR WARRANTY ON COMPRESSOR ONLY—During the second through tenth years after the date of original installation, CARRIER further warrants the compressor against defects in material and workmanship under normal use and maintenance. A new or remanufactured compressor will be provided at Carrier's sole option under the same conditions as stated in the One-Year Warranty.

LIMITATION OF WARRANTIES—ALL IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTIES OF FITNESS AND MERCHANTABILITY) ARE HEREBY LIMITED IN DURATION TO THE PERIOD FOR WHICH THE LIMITED ONE YEAR WARRANTY IS GIVEN. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS 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.

ALL WORK UNDER THE TERMS OF 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 OF THIS WARRANTY.

CARRIER CORPORATION WILL NOT BE RESPONSIBLE FOR:

1. Normal maintenance as outlined in the installation and servicing instructions or owner's manual including coil cleaning, filter cleaning and/or replacement and lubrication.
2. Damage or repairs required as a consequence of faulty installation or application by others.
3. Failure to start due to voltage conditions, blown fuses, open circuit breakers or other damages due to the inadequacy or interruption of electrical service.
4. Damage or repairs needed as a consequence of any misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
5. Damage as a result of floods, winds, fires, lightning, accidents, corrosive environments or other conditions beyond the control of CARRIER.
6. Parts not supplied or designated by CARRIER.
7. CARRIER products installed outside the continental U.S.A., Alaska, Hawaii, and Canada.
8. Electricity or fuel costs or increases in electricity or fuel costs for any reason whatsoever including additional or unusual use of supplemental electric heat.
9. ANY SPECIAL, INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER. Some states do not allow the exclusion of incidental or consequential damages, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Form No. 530-050 (New 10-89)

Detach & Mail Product Registration Card – **RETAIN THIS WARRANTY CERTIFICATE**

4 To help us understand our customers' lifestyles, please indicate the interests and activities in which you or your spouse enjoy participating on a regular basis:

- | | | |
|--|---|--|
| 01. <input type="checkbox"/> Bicycling Frequently | 18. <input type="checkbox"/> Crafts | 35. <input type="checkbox"/> Gourmet Cooking |
| 02. <input type="checkbox"/> Golf | 19. <input type="checkbox"/> Automotive Work | 36. <input type="checkbox"/> Wines |
| 03. <input type="checkbox"/> Physical Fitness/Exercise | 20. <input type="checkbox"/> Electronics | 37. <input type="checkbox"/> Coin/Stamp Collecting |
| 04. <input type="checkbox"/> Running/Jogging | 21. <input type="checkbox"/> Home Workshop/Do it Yourself | 38. <input type="checkbox"/> Collectibles/Collections |
| 05. <input type="checkbox"/> Snow Skiing Frequently | 22. <input type="checkbox"/> Recreational Vehicles | 39. <input type="checkbox"/> Our Nation's Heritage |
| 06. <input type="checkbox"/> Tennis Frequently | 23. <input type="checkbox"/> Stereo, Records/Tapes/CDs | 40. <input type="checkbox"/> Real Estate Investments |
| 07. <input type="checkbox"/> Camping/Hiking | 24. <input type="checkbox"/> Buy Pre-Recorded Videos | 41. <input type="checkbox"/> Stock/Bond Investments |
| 08. <input type="checkbox"/> Fishing Frequently | 25. <input type="checkbox"/> Avid Book Reading | 42. <input type="checkbox"/> Entering Sweepstakes |
| 09. <input type="checkbox"/> Hunting/Shooting | 26. <input type="checkbox"/> Bible/Devotional Reading | 43. <input type="checkbox"/> Casino Gambling |
| 10. <input type="checkbox"/> Power Boating | 27. <input type="checkbox"/> Health/Natural Foods | 44. <input type="checkbox"/> Science Fiction |
| 11. <input type="checkbox"/> Sailing | 28. <input type="checkbox"/> Photography | 45. <input type="checkbox"/> Wildlife/Environmental Issues |
| 12. <input type="checkbox"/> House Plants | 29. <input type="checkbox"/> Home Furnishing/Decorating | 46. <input type="checkbox"/> Dieting/Weight Control |
| 13. <input type="checkbox"/> Grandchildren | 30. <input type="checkbox"/> Attending Cultural/Arts Events | 47. <input type="checkbox"/> Science/New Technology |
| 14. <input type="checkbox"/> Needlework/Knitting | 31. <input type="checkbox"/> Fashion Clothing | 48. <input type="checkbox"/> Self Improvement |
| 15. <input type="checkbox"/> Vegetable Gardening | 32. <input type="checkbox"/> Fine Art/Antiques | 49. <input type="checkbox"/> Walking for Health |
| 16. <input type="checkbox"/> Flower Gardening | 33. <input type="checkbox"/> Foreign Travel | 50. <input type="checkbox"/> Watching Sports on TV |
| 17. <input type="checkbox"/> Sewing | 34. <input type="checkbox"/> Travel in the USA | |

5 Using the numbers in the above list, please indicate the 3 most important activities for:

- | | |
|---|---|
| You | Spouse |
| 1. <input type="checkbox"/> Regularly Purchase Items Through the Mail | 8. <input type="checkbox"/> Have a VCR |
| 2. <input type="checkbox"/> Military/Veteran in Household | 9. <input type="checkbox"/> Use a Personal Computer |
| 3. <input type="checkbox"/> Member of Frequent Flyer Program | 10. <input type="checkbox"/> Have a Dog |
| | 11. <input type="checkbox"/> Have a Cat |

Thanks for taking the time to fill out this questionnaire. Your answers will be used for market research studies and reports — and will help us better serve you in the future. They will also allow you to receive important mailings and special offers from a number of fine companies whose products and services relate directly to the specific interests, hobbies, and other information indicated above. Through this selective program, you will be able to obtain more information about activities in which you are involved and less about those in which you are not. Please check here if, for some reason, you would prefer not to participate in this opportunity.

If you have comments or suggestions about our product please write to:
Carrier
 Consumer Relations Department
 P.O. Box 173244
 Denver, CO 80217-3244
 or call 1-800-C-A-R-R-I-E-R

Please send products and other correspondence to:

Carrier
 Consumer Relations Department
 P.O. Box 4808
 Syracuse, NY 13221



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 DENVER, CO 80217-3244**

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.