



# Owner's Manual

Part Number 33CSSN2-WC

## GENERAL

The commercial, non-programmable thermostats are wall-mounted, low-voltage thermostats which maintain room temperature by controlling the operation of an HVAC (Heating, Ventilation, and Air-Conditioning) system. Separate heating and cooling set points and auto-changeover capability allow thermostat flexibility.

Batteries are not required. During power interruption the internal NEVERLOST™ memory stores configuration settings for an unlimited amount of time.

## CONFIGURATION

**Thermostat Display** — The thermostat display is located in the center of the thermostat. See Fig. 1. The following information can be displayed on the screen:

- mode (OFF, HEAT, COOL, or AUTO)
- fan setting (FAN ICON or blank)
- room temperature
- desired temperature
- setup indicator
- lock indicator

**Heat or Cool Indicator** — A Heat or Cool indicator is located on the bottom middle cover of the thermostat. See Fig. 2. The light will be red if the thermostat is in Heating mode. The light will be green if the thermostat is in Cooling mode.

**Thermostat Front Panel Buttons** — The thermostat has buttons on the front cover which are used to raise or lower the desired set point and change the current mode. See Fig. 2.

**SET POINT BUTTONS** — The UP ARROW and DOWN ARROW buttons will raise or lower the current desired temperature set point. If the thermostat is in AUTO mode, pressing the UP ARROW or DOWN ARROW button will adjust both the heating and cooling set points. Pressing the UP ARROW or DOWN ARROW button in Cooling mode will adjust only the cooling set points. Pressing the UP ARROW or DOWN ARROW button in Heating mode will adjust only the heating set points.

**FAN BUTTON** — The fan button determines fan operation. Pressing the fan button causes the fan setting icon (🌀) to be displayed. When the fan setting icon is displayed, the fan will run continuously. If the fan setting icon is not displayed, the fan will run during heating and cooling operation only.

**KEYPAD LOCK** — The thermostat has a keypad lockout feature which will not acknowledge front panel buttons until the lockout sequence is entered. To disable or lock the keypad, press and hold the Mode button. While holding down the Mode button, press the UP and DOWN ARROW buttons simultaneously. The Locked icon (🔒) will appear on the display.

The thermostat is unlocked by performing the same procedure. Press and hold the Mode button. While holding down the Mode button, press the UP and DOWN ARROW buttons simultaneously. The Locked icon will be removed from the display.

**MODE BUTTON OPERATION** — The Mode button selects the operating mode of the thermostat. If OFF is selected, the thermostat will not enter Heating or Cooling mode. If HEAT is selected, the thermostat will only enter Heating mode (if the room temperature is below the heating set point). If COOL is selected, the thermostat will only enter Cooling mode (if the room temperature is above the cooling set point). If AUTO is selected, the thermostat will enter Heating or Cooling mode based on the room temperature and the heating and cooling set points.

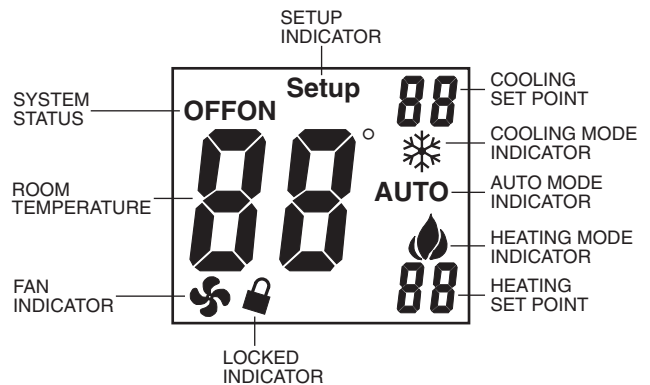


Fig. 1 — Thermostat Display

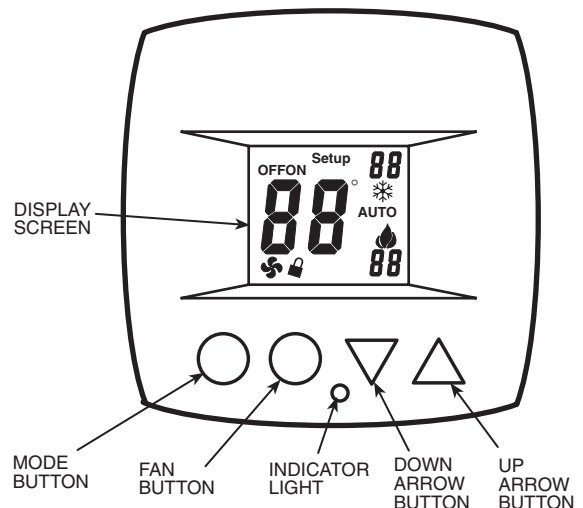


Fig. 2 — Thermostat Front Cover

**Auto-Changeover** — When the thermostat mode is set to AUTO, the thermostat will provide automatic changeover from Heating to Cooling mode and Cooling to Heating mode when required. The thermostat will automatically switch to maintain the desired temperature setting. The thermostat does not need to be manually changed from heating to cooling or cooling to heating operation.

NOTE: It is recommended that auto-changeover mode not be used if the outdoor temperature is consistently lower than 50 F (10 C) or greater than 80 F (27 C). In these cases, select Heating or Cooling mode only.


## OPERATION

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not need to be manually changed from heating to cooling or cooling to heating operation.

**Two-Stage Operation** — The second stage of heat or cool is turned on when the first stage has been on for a minimum of 2 minutes and the temperature differential from the set point is equal to or greater than the set point plus the deadband plus 2 degrees.

→ **Fan Operation** — If continuous fan operation is selected (  is displayed), the fan will run continuously.

If continuous fan operation is not selected, the fan will only operate during heating or cooling operation.

**Emergency Heat** — Emergency heat is available only for heat pump applications. To turn on emergency heat, press and hold the Fan button. While holding the Fan button, press the UP button. An “EH” will be displayed. During emergency heat, the fan will operate and the second stage of heat will be energized (locking out the first stage compressor). To exit emergency heat, press and hold the Fan button. While holding the Fan button, press the UP button. During emergency heat, only OFF and HEAT modes are available.

**Electric Heat** — When the Electric Heat option in the advanced setup is set to ON (configured by installer), the thermostat will turn on the fan immediately any time there is a heat demand. This feature should only be used on electric heating applications. Do not use with gas heat.

# Carrier

## ALL PRODUCT LIMITED WARRANTY



**ONE-YEAR WARRANTY** — This CARRIER CORPORATION (herein after referred to as "COMPANY") product is warranted to be free from defects in material and workmanship. If it appears within one year from the date of original installation, whether or not actual use begins on that date, that the product does not meet this warranty, a new or remanufactured part, at the COMPANY'S sole option, to replace any defective part will be provided without charge for the part itself; PROVIDED the defective part is returned to our distributor through a qualified servicing dealer.

**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.

**THIS WARRANTY APPLIES ONLY TO PRODUCTS IN THEIR ORIGINAL INSTALLATION LOCATION AND BECOMES VOID UPON REINSTALLATION.**

**LIMITATIONS OF WARRANTIES** — ALL IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY) ARE HEREBY LIMITED IN DURATION TO THE PERIOD FOR WHICH THE LIMITED WARRANTY IS GIVEN. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESSED 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.**

### THE COMPANY WILL NOT BE RESPONSIBLE FOR:

1. Normal maintenance as outlined in the installation and servicing instructions or owners manual including filter cleaning and/or replacement and lubrication.
2. Damage or repairs required as a consequence of faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
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 as a result of floods, winds, fires, lightning, accidents, corrosive environments or other conditions beyond the control of the COMPANY.
5. Parts not supplied or designated by the COMPANY, or damages resulting from their use.
6. COMPANY products installed outside the continental U.S.A., Alaska, Hawaii, and Canada.
7. Electricity or fuel costs or increases in electricity or fuel costs from any reason whatsoever including additional or unusual use of supplemental electric heat.
8. 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.**  
Effective on products manufactured after January 1, 1993. Supersedes any other warranty certificates supplied with the product.

CATALOG NO. 809-628

# 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, N.Y. 13221  
Telephone: 1-800-CARRIER (227-7437)

Unit Model No. \_\_\_\_\_ Unit Serial No. \_\_\_\_\_

Date of Installation \_\_\_\_\_ Installed by \_\_\_\_\_

Name of Owner \_\_\_\_\_ Address of Installation \_\_\_\_\_