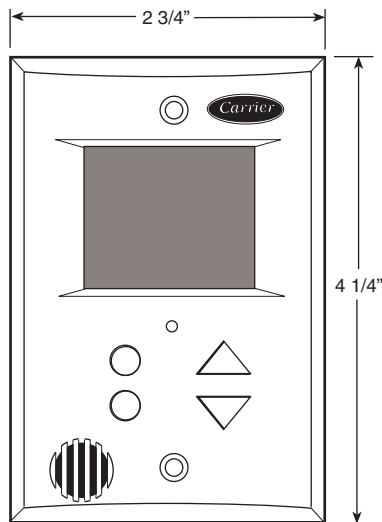




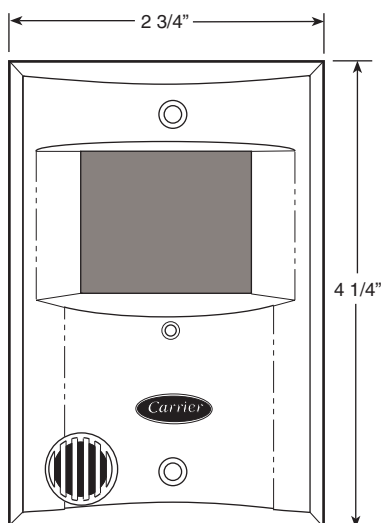
Product Specification

33CS Debonair™ Commercial Programmable Thermostats Flatstat

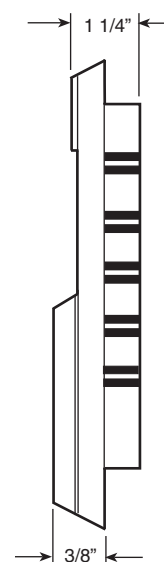
Part Numbers 33CS220-FS, 33CS250-FS



THERMOSTAT



THERMOSTAT WITH LOCKING COVER



The Debonair line of commercial, 7-day programmable thermostats provides the following features and benefits:

- compatible with electric heat, gas heat, and heat pump operation
- seven-day programmable clock with 4 time periods per day
- holiday scheduling (up to 99 consecutive days)
- copy command for programming schedules
- large Thermoglow™ display
- heating and cooling operation LED
- zone temperature control to 1-degree accuracy
- auto-changeover
- four-hour setback override
- Neverlost™ non-volatile memory (no batteries required)
- service filter indicator
- energy saving Smart Fan
- three security levels with keypad lockout and ExactFit locking cover
- five-minute compressor time guard
- adjustable heat/cool set point limiting
- external input (dry contact switch)
- soft start/staggered start
- pre-occupancy purge (0 to 3 hours)
- remote room temperature sensor capability
- Title 24 compliance
- Carrier warranty
- calibration of internal temperature sensor

Features/Benefits



Carrier's Debonair™ line of commercial programmable thermostats are wall-mounted, low-voltage thermostats which maintain room temperature by controlling operation of an HVAC (Heating, Ventilation, and Air Conditioning) system. Separate heating and cooling set points and auto-changeover capability allow occupied and unoccupied programming for energy savings.

The thermostat can be configured to accept several different equipment configurations, including single-stage heating and cooling, heat pumps, gas or electric heating, and hydronic systems.

All thermostats allow up to 4 time/temperature settings to be programmed per 24-hour period. Each thermostat stores schedules for 7 independent days. Batteries are not required. During power interruption, the internal memory stores schedules for an unlimited time while the clock will continue to run.

Flexibility for every application

Thermostat can be programmed and configured for use with many different applications including single-stage heating and cooling, heat pumps, gas or electric heating, and hydronic systems.

A 7-day clock is provided with 3 occupied and 1 unoccupied time periods for scheduling of heating and cooling set points. Occupied and unoccupied schedules allow for energy savings by changing set points during time periods when the zone is normally unoccupied.

Holiday programming allows the thermostat to run under unoccupied temperature set points for up to 99 consecutive days. This is beneficial in schools or businesses where long breaks are common.

Remote temperature sensing accessories are available for remote sensing of critical spaces where public access to the thermostat is not desired. Typical applications would include retail stores, public areas, classrooms, and other areas where the thermostat will be mounted away from the controlled space. The degree annunciator flashes when the thermostat is using a remote room sensor. A laser-trimmed, solid-state sensor is used to send the digital signal to the thermostat. Available with or without override button.

Our remote wireless room sensor allows sensor averaging of up to 16 sensors in any combination.

Preoccupancy purge enhances indoor air quality by initiating the fan before the programmed occupancy time. The purge is user configured from 0 to 3 hours.

Reliability for year-round comfort

One-degree control accessory precisely controls the desired space temperature to 1 degree from user set point. The thermostat uses a solid-state, laser-trimmed sensor.

Schedule override returns the system to occupied set points if heating or cooling is needed during unoccupied hours. The override is adjustable in 30-minute increments up to 4 hours and returns the system to Unoccupied mode when override expires.

Neverlost™ memory protection on the thermostat eliminates the need to reprogram the thermostat after power outages. Comfort programming and configuration will remain intact indefinitely. Clock and day of the week settings will be retained for a minimum of 48 hours.

Service filter indicator lets maintenance personnel know when the filter needs cleaning or replacing, which aids in equipment efficiency and prolongs equipment life.

Energy saving smart fan in configurable for two modes of operation: automatic and continuous. In automatic smart fan operation, the fan will only run when the system calls for heating or cooling. In continuous smart fan operation, the fan will run continuously in occupied time periods, will only run when the system calls for heating or cooling during unoccupied periods.

Five-minute compressor time guard protects HVAC equipment by preventing compressor short cycling and limits the number of cycles per hour with an adjustable cycle limit.

Soft Start/Staggered Start is used to stagger the start of the HVAC equipment. This ensures there is no sudden power peak if multiple units energize simultaneously, especially after a power failure.

Carrier warranty ensures peace of mind well after installation.

Title 24 compliance meets specified requirements for all California commercial installations.

Ease of programming for quick installation

Copy command for programming schedules saves time when multiple daily schedules are similar.

Thermoglow™ display is large and easy to read. Backlit display allows programming in poorly lit areas and can be configured for button activation or continuous lighting. A single adjustment shows temperature in Celsius or Fahrenheit.

Four time periods per day allow flexibility to create schedules for every application. Start and stop times along with heating and cooling set points are easily entered into the schedule.

Safety features for added security and protection

Three levels of security and keypad lockout protect against unauthorized usage of the thermostat. The 3-level security adjustment eliminates the need for bulky and unattractive locking covers. Schedules, set points, and thermostat configurations are protected by locking out keypad operation. An easily memorized button sequence unlocks the keypad and allows access to configuration, set point, and scheduling information.

ExactFit locking cover

Say good-bye to unsightly, bulky locking covers. The ExactFit locking cover is virtually undetectable as it looks like the thermostat itself. It comes standard in the box along with slotted or tamper-proof (keypad) screws.

→ SPECIFICATIONS

Recommended Wiring	22 AWG (36 ft max) 18 AWG (100 ft max)
Operating Temperature F (C)	32 to 122 (0 to 50)
Storage Temperature F (C)	14 to 140 (-10 to 60)
Temperature Display Range F (C)	32 to 99 (0 to 36)
Operating Relative Humidity	0 to 95% (Non-condensing)
Dimensions (in.)	4.25 x 2.75 x 1.25
Power	5 va at 24 vac, 60 Hz

LEGEND

AWG — American Wire Gage

PRODUCT STANDARDS

FCC Part 15

UL

UL Canada

Title 24

CE Mark

NOTE: This control is considered a low voltage device by UL (Underwriters' Laboratories) and therefore does not require UL or CSA (Canadian Standards Association) approval.

