



# CONTROLS

## COSTATO5FF1L

### COMFORTSENSE® 3000

#### Commercial 5-2-Day Programmable Thermostat

Bulletin No. 210753  
March 2016  
Supersedes April 2015

### PRODUCT SPECIFICATIONS

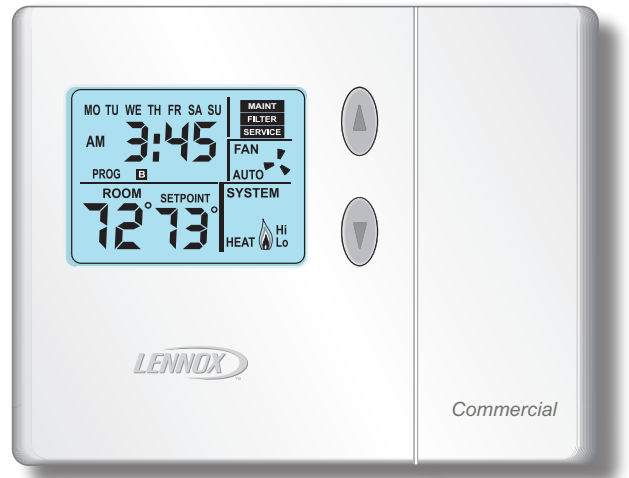
The ComfortSense® 3000 is an electronic 5-2 day, multi-stage, programmable commercial thermostat.

Thermostat also features enhanced capabilities for commercial packaged rooftop units and split systems including remote temperature sensing, economizer control and equipment maintenance reminders.

- Large, back-lit, easy-to-read LCD screen with digital display
- Large buttons are easy to push
- Sleek, modern appearance works well with any decor
- System status icons show when the HVAC system is running
- Maintenance reminder lets user know when routine service is required
- Filter monitor displays when it is time to service the HVAC system filter
- Service monitor indicates when the cooling system is not operating properly
- Gradually changes room temperature to next program period for increased comfort
- Hard-wired to the indoor unit power supply. No batteries to change
- Thermostat can be used in conventional heating/cooling (non-heat pump) applications
- Smooth Setback Recovery starts system early to achieve setpoint at start of program period
- Economizer relay control
- Five-minute compressor short-cycle protection
- Minimum cycle time of 6 minutes

### FULLY PROGRAMMABLE

- 5-2 day programming, four time periods per day.
- Day/Time button allows quick clock setting changes
- Heat/Cool buttons simplify setting precise heating and cooling temperatures
- Fan button selects continuous or automatic blower operation
- Programming button sets, reviews, or changes schedule
- Hold feature will temporarily hold setpoints for two hours or permanently without changing the program
- Maintains program in memory for 24-hours in the event of a power outage



### 2 Heat / 2 Cool

#### Commercial Heat/Cool Systems (conventional)

#### Commercial Packaged Heat Pumps (2-20 Tons)

#### Commercial Split Heat Pump Systems (7-10 Tons)

### WARRANTY

One-year limited warranty.

Refer to Lennox Equipment Limited Warranty certificate included with equipment for details.

### DISPLAY

- 30 second display when any button is pressed
- Day and time display will show current day and time
- Program/Hold indicators show the current program (A, B, C, D) and the program override (HOLD) status
- Compressor stage indicators show if the first or second stage of the compressor is activated (if applicable)
- Filter reminder (FILTER) will be displayed when the filter reminder timer expires
- Service (SERVICE) and maintenance (MAINT) reminders
- ROOM - shows the current room temperature
- SETPOINT - shows the set point temperature
- Occupied (OC) and unoccupied (UC) program status
- System selector indicators - shows the current selection of system control: COOL, OFF and HEAT
- If heating is activated, the system status will show a flame animation

## FEATURES

### DISPLAY (continued)

- If cooling is activated, the system status will show a snowflake animation
- Fan selection indicator shows the current selection of fan control which can be *ON* or *AUTO*
- If the fan is activated, the fan status indicator will show a rotating fan animation
- The service indicator will show a 1HZ blinking indicator when 24VAC is present at the L terminal and Y1 is on for five minutes
- LCD backlight turns on for 30 seconds when any button is pressed

### SPECIFICATIONS

*NOTE - For use with air conditioning equipment only.*

- Temperature set range: 50°F to 90°F (10°C to 32°C) in one degree increments
- Room Temperature Display range: 35°F to 99°F (2°C to 37°C)
- Room Temperature Display: User selectable Fahrenheit or Celsius (press Settings button three time, press up/down arrow button to toggle between Fahrenheit or Celsius)
- Internal temperature sensor or optional remote room temperature sensor (DIP switch setting)
- Fan control: On/Auto
- Stage up timer: 15 minutes
- User selectable filter reminder: Off, 1, 3, 6, or 12 months
- User selectable maintenance reminder: Off, 6 or 12 months
- Service reminder
- DIP switch settings: temperature offset, internal/external (room) temperature sensing, fan option (gas or electric heat), Smooth Setback Recovery (SSR)
- Temperature Offset (DIP switch setting): -3°F to 0°F (-19°C to -18°C)
- User selectable maintenance reminder: Off, 6 or 12 months
- Memory, clock, filter and maintenance counters maintained for 24 hours of power outage
- Reset button restores thermostat to original factory settings
- Power Supply: 18-30 VAC - 50/60Hz
- Dimensions (H x W x D): 3-1/2 x 4-9/16 x 1-5/16 in. (89 x 16 x 33 mm)



NOTE - Due to Lennox' ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice and without incurring liability. Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury. Installation and service must be performed by a qualified installer and servicing agency.

### Terminals

- OC - Occupancy Output (economizer)
- R - 24VAC
- Y1 - 1st Stage Cooling
- W1 - 1st Stage Heating
- Y2 - 2nd Stage Cooling
- W2 - 2nd Stage Heating
- G - Fan
- L - Service Indicator
- C - Common 24VAC
- T - Remote Indoor (Room) Temperature Sensor 1
- T - Remote Indoor (Room) Temperature Sensor 2

### ORDERING INFORMATION

#### C0STAT05FF1L (11Y05)

2 Heat/2 Cool

- Commercial heat/cool systems (conventional)
- Commercial packaged heat pumps (2-20 tons)
- Commercial split heat pump systems (7-10 tons)

*NOTE - Not for use with small 3-5 ton split heat pump systems.*

### Optional Accessories

#### C0SNZN73AE1- Indoor Room Temperature Sensor (47W37)

Remote non-adjustable wall mount 10k averaging temperature sensor allows remote temperature sensing away from the thermostat.

DIP switch sets internal (thermostat) or external (remote temperature sensing).

Room sensor wiring can be sized from 16 to 22 AWG depending on the application.

The maximum length of wire from a device to a zone sensor is 1000 feet (305 m).

Twisted pair wire is recommended for wire runs longer than 100 feet (30 m).

#### C0MISC17AE1- Wall Plate (X2659)

### REVISIONS

Sections	Description of Change
Usage	Added heat pump system usage and restrictions.

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