

**COSTAT05FF1L****COMFORTSENSE® 3000****Commercial 5-2-Day Programmable Thermostat**

Bulletin No. 210753

March 2016

Supersedes April 2015

**COMMERCIAL
PRODUCT SPECIFICATIONS**

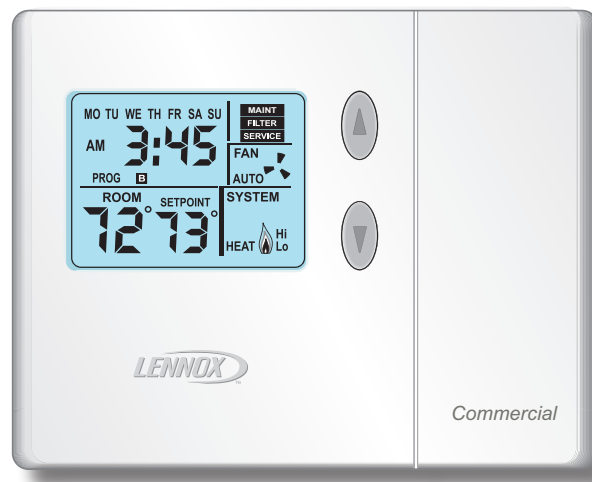
The ComfortSense® 3000 is an electronic 5-2 day, multi-stage, programmable commercial thermostat.

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, easy to push buttons
- 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 shows when to replace 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 required
- 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

- Limited one year warranty

NOTE - 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
- 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)

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

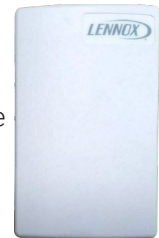
- Commercial heat/cool systems (conventional)
- Commercial packaged heat pumps (2-20 tons)
- Commercial split heat pump systems (7-10 tons)

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

Optional Accessories

Indoor Room Temperature Sensor

- C0SNZN73AE1 (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)



Wall Plate

- C0MISC17AE1 (X2659)

REVISIONS

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



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