SDHW1001 Commercial Setback on Demand Thermostat
Installation, Setup and Operation Instructions

Installation:
   Select system using System Selection Chart /Terminal Labels. Remove the matching terminal designator label strip from sheet, and apply it to the terminal strip as shown to the right. Ensure the "C" terminal is directly under the left most terminal.

Mounting:
   Mount the rear housing on the wall 5 feet from the floor on an inside wall, away from drafts and sources of false heat such as lamps, computer monitors etc…
   Turn the system power off.
   Run wires through the housing. Connect the wires from the system to the appropriate terminals.
   Install front thermostat to rear housing by facing thermostat front towards floor. Align hinges into matching openings, and rotate front into place.
   Install 3 AA batteries into the battery drawer. Slide battery drawer into the bottom of the case.

Setup:
   To activate the customization menu, press and hold the Mode, Fan, and Econ/ Comf buttons until the display changes to the customization menu. To advance through the menus press MODE. To exit the menu press ECON/COMF.

To select System Selection. Menu: SEL 01
   Press the Up or Down arrow to select your system. Set to match terminal label. Once set press MODE to advance to next menu.

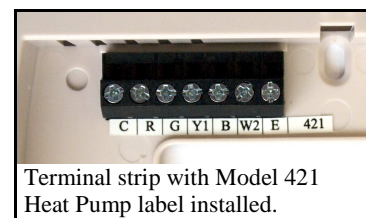**To select Comfort Mode Timer. Menu: SEL 02**
   The comfort mode timer determines how long the "Setback on Demand" thermostat will stay in the comfort mode after motion has been detected. SEL 02 with the number 60 (default) should be displayed. Use the Up arrow to increase or the down arrow to decrease the amount of time the thermostat will stay in the comfort mode after motion has been detected. Once set press MODE to advance to next menu.

To select Motion Activity menu SEL 03
   The Motion Activity selection allows you to set how much motion is required to switch from Economy to Comfort. A setting of 1 will switch to comfort as soon as any motion has been detected. A higher setting requires more activity. Use the up and down arrows to make selection. Press Econ/Comf to exit setup menu.
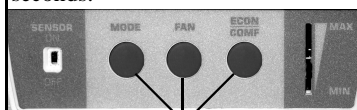
To select the Deadband menu SEL 06
   The Deadband determines how much ambient temperature change is required before the system will switch from Heating to Cooling or vice-versa. The factory setting is 2 but is adjustable from 1 to 5 in one degree increments.

Terminal strip with Model 421 Heat Pump label installed.

To activate customization menu, press and hold MODE, FAN, and ECON/COMF buttons for 5 seconds.
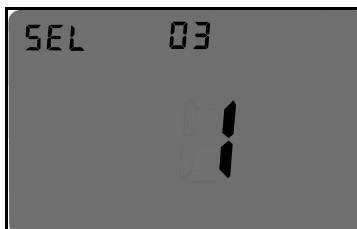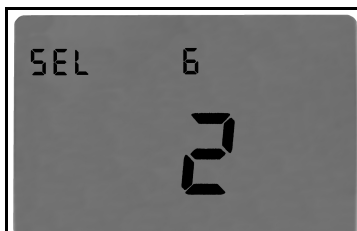
Press and hold these 3 buttons.

SEL 01
222
Display indicates System 222 has been selected.

SEL 02
60
The Display indicates that the Comfort Timer is set to 60 minutes. (default)

SEL 03
1
The Display indicates motion activity is set to 1. (default)

SEL 6
2
The Display indicates Deadband is set to 2. (default)

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To select Test Mode SEL t

The Test Mode allows you to bypass the protection delays for 10 minutes. If thermostat is no longer in the customization menu, press and hold the Mode, Fan, and Econ/Comf buttons for 5 seconds. Press the Mode button four times to advance to "SEL t". Press the up arrow once to activate test mode. The word "on" will appear under the "SEL t". After 10 minutes delays will reactivate.

Set Mode:

Press MODE button to advance through the system selections. Option will vary depending on your system. Options will include some or all of the following: Heat, Emer Heat, Cool Auto, Off.

Set Comfort Temperature:

Use the MODE button to select either heat or cool. Use the up and down arrows to set the desired Comfort Temperature.

Set Economy Offset:

To adjust the amount of Offset use the slide control. Raise the slide to increase the amount of offset and lower the slide to reduce the offset. Note: If economy temperature in heat mode is 10 lower than comfort temperature, the economy temperature in cool mode will be 10 higher than comfort temperature.

Auto Changeover:

The "Setback on Demand" thermostat incorporates a new type of Auto Changeover that protects your system regardless of temperature settings. After you have set your comfort temperatures, use the mode button to show Auto. The thermostat will automatically switch to heat or cool as required by your settings.

Fan:

The Fan button will cycle through Auto Fan or Fan On. If your system does not incorporate a fan controlled by the thermostat the display will indicate No Fan.

Sensor: On/Off switch

The Sensor switch should be in the on position for the SD thermostat to automatically switch between modes based on occupancy. In the off mode, the SD will not switch between Comfort and Economy automatically.

Locking the Keypad:

The "Setback on Demand" thermostat incorporates a feature that will lock all of it's settings. To lock wait until backlight is off. Press and hold both Arrow buttons. While still holding the arrow buttons press the Mode button. Keypad Off will appear in the display. To unlock, repeat procedure.

Celsius:

To change from Fahrenheit to Celsius, place the mode to off, then press and hold the up and down arrows for 5 seconds. Follow the same procedure to change back.

Test Mode

Heat Mode

Auto will switch between heat and cool based on need

Comfort Flashes when setting Comfort Temperature.

Economy Flashes when setting the Economy Offset.

Keypad locks prevents changing any of the settings.