



## RESIDENTIAL PRODUCT SPECIFICATIONS

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The Lennox® S40 Smart Thermostat recognizes and connects to all Lennox Communicating Products to automatically configure and control the heating/cooling system (based on homeowner-specified settings) for the highest level of comfort, performance and efficiency.

Thermostat also recognizes model and serial number information for Lennox Communicating Products to simplify system setup.

- Advanced communicating controls in specific heating and cooling units, PureAir™ S Air Purification System and Healthy Climate® HRV/ERV (Heat/Energy) Recovery Ventilators transmit information about various operating parameters to the thermostat to constantly maintain the most comfortable and efficient operating conditions possible
- Lennox Smart Room Sensors, Lennox Wireless Extenders and Lennox Smart Air Quality Monitor can be added to the system
- Additional conventional (not Lennox Communicating) indoor air quality comfort products (Healthy Climate® Humidifiers and Dehumidifiers, Humiditrol® Enhanced Dehumidification Accessory, Ventilation Control System and Germicidal Lights) can be added to the system for a complete total-comfort system
- Conventional outdoor units (not Lennox Communicating) can be added and controlled by the Lennox S40 Smart thermostat
- Conventional HVAC systems (not Lennox Communicating) can be controlled by the S40 Smart thermostat with the addition of the optional Equipment Interface Module (EIM)
- Optional Lennox Smart Zoning System (for specific HVAC systems) allows whole-home zoning (up to 4 zones) with complete control from the S40 Smart thermostat and individual In-Zone Thermostats
- A simple easy-to-use touchscreen allows complete system configuration
- Scheduled maintenance alerts, system warnings and troubleshooting are also displayed on thermostat screen
- Up to four separate schedules are available plus Schedule IQ™
- One-Touch Away Mode - A quick and easy way to set the cooling and heating setpoints while away
- Smart Away® - Schedule IQ™ uses geo-fencing technology to determine when the homeowner is within a predetermined distance from the home to operate the system when leaving, away and arriving
- Weather-On-Demand - Live up-to-date weather data, seven-day forecasts and outdoor conditions (allergies, UV air quality)
- Easy to read 7 in. high-definition color display (measured diagonally)
- Installer setup screens allow quick and simple system configuration without a manual
- Installer can also run tests on complete system or individual components for easy maintenance and troubleshooting
- Lennox Smart Technician App allows installer to manage systems in the home
- LennoxPros Service Dashboard features online real-time advanced diagnostics and remote sharing to remotely diagnose homeowner issues and remotely adjust system configurations
- Serial communications bus (RSBus), with less wiring than a conventional heating/cooling system, allows system communication
- Uses standard unshielded thermostat wiring
- High-Definition Color Display with Subbase furnished for easy installation

Home Automation for Amazon Alexa®, Google Assistant™, Control4® and Building36® Integration

- See page 8 for additional information



### Lennox Smart Thermostat App

Remote Wi-Fi homeowner monitoring and adjustment for smartphones. Control cooling/heating temperatures, fan operation, set programs and set Away mode for multiple locations. Receive service alerts and reminders.



## WARRANTY

### EQUIPMENT WARRANTY

- Limited ten years in residential installations
- Limited one year in non-residential installations

**NOTE** - Refer to Lennox Equipment Limited Warranty certificate included with unit for specific details

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# TYPICAL SYSTEM COMPONENTS

**NOTE - One Lennox® S40 Thermostat can control additional thermostats/systems in the home.**



**Lennox® S40 Smart Thermostat with Subbase**



**Lennox® Smart Thermostat App**



**Lennox® Wireless Extender**



**Lennox® Smart Room Sensor**



**Lennox® Smart Air Quality Monitor**

**Outdoor Air Temperature Sensor**  
(furnished on all outdoor Lennox® Communicating products)  
(Also available as an optional accessory for non-communicating outdoor units)

**Lennox® Communicating Air Conditioner**  
SL28XCV (Variable Capacity)  
XC21 (2-Stage)  
EL23XCV/EL18XCV (Variable Capacity)  
XC20 (Variable Capacity)  
SL18XC1 (1-Stage)  
**Heat Pump**  
SL25XPV (Variable Capacity)  
XP21 (2-Stage)  
EL22XPV/EL18XPV (Variable Capacity)  
XP20 (Variable Capacity)  
SL18XP1 (1-Stage)



**Lennox® Communicating Furnace SLP99V**  
(Variable Capacity Heating, Variable Speed Blower),  
SL297NV,  
SL280V or EL296V  
(Two-Stage Heating, Variable Speed Blower)



**Lennox® Communicating Air Handler CBA38MV**  
(Variable Speed Blower)

**Optional PureAir™ S Air Purification System PCO3S**



**<sup>1</sup> Healthy Climate® HRV (Heat Recovery Ventilator) or ERV (Energy Recovery Ventilator)**  
<sup>1</sup> EIM is required for HRV/ERV Integration (not part of the RSBUS)



RSBus


## FEATURES AND ACCESSORIES

### LENNOX S40 SMART THERMOSTAT



- Easy to read 7 in. high-definition color tablet-like display to operate the HVAC systems within the home
- Contains a temperature sensor to monitor and control temperatures in the home through the display
  - Temperature Measurement Range - 0 to 150°F
- Contains a humidity sensor to monitor and control humidity levels in the home through the display
  - Humidity Measurement Range - 10 to 90% relative humidity
- Four Wire, 18 to 22AWG (RSBus) standard thermostat cable for terminals (R, C, I+, I-).

**NOTE** - Refer to the S40 Installation Instructions for optional wiring connections for communicating thermostats.

 S40 thermostat can control multiple HVAC systems in the home.

- All homeowner settings are made on the S40 thermostat or on the Lennox Smart Thermostat App


#### Subbase

- Furnished with thermostat for secure wall mounting
- Screw terminals for easy wiring hookup
- Mounting hardware is included

### LENNOX SMART AIR QUALITY MONITOR (optional)




- Wireless monitor collects data on particulate matter (PM<sub>2.5</sub>), carbon dioxide (CO<sub>2</sub>) and volatile organic compounds (VOC) and transmits it to the thermostat via Bluetooth Low Energy (BLE) mesh network
- Status LED indicates various conditions:
  - Blue - Signal strength is low or out of range
  - Green - Sensor is in pairing mode
- Pairing/Reset button (recessed) allows pairing and also reboots monitor to original factory condition
- 24VAC power (not furnished)
- Hardware is furnished for installation on a wall

 Monitor can only be added to the system using the Lennox Smart Technician App.


### LENNOX SMART ROOM SENSOR (optional)



- Wireless sensor collects room temperature and occupancy status and transmits it to the thermostat via Bluetooth Low Energy (BLE) mesh network
- Sensor uses an algorithm to calculate average room temperature based on room occupancy / temperature sensor input along with the thermostat's built-in sensors
- Up to six sensors can be used with a single S40 thermostat
- Maximum range - 70 ft.
- Operates on two AA 1.5V lithium-ion batteries (furnished), two-year battery life
- Status LED indicates various conditions:
  - Red - Low battery
  - Blue - Signal strength is low or out of range
  - Green - Sensor is in pairing mode
  - Off - Normal operation

 LED will alternate between red and blue if there are more than two conditions simultaneously active.


- Pairing/Reset button on bottom allows pairing and also reboots sensor to original factory condition
- Sensor stand and hardware is furnished for installation on a wall

 Sensor can only be added to the system using the Lennox Smart Technician App.

### LENNOX WIRELESS EXTENDER (optional)



- Extends the effective Bluetooth Low Energy (BLE) mesh network range
- Up to two wireless extenders can be used with a single S40 thermostat
- Power - Two prong plug-in to 120V electrical connection
- Status LED indicates various conditions:
  - Blue - Signal strength is low or out of range
  - Green - Extender is in pairing mode
  - Off - Normal operation
- Pairing and Reset buttons allows pairing with thermostat and also resets sensor to original factory condition

 Extender can only be added to the system using the Lennox Smart Technician App.

## SYSTEM COMPONENT TYPES

System Type	S40 Thermostat	<sup>1</sup> Outdoor Unit Type (Lennox Communicating or Non-Communicating)	<sup>1</sup> Indoor Unit Type (Lennox Communicating)	<sup>2</sup> Indoor Unit Type (Non-Communicating) Equipment Interface Module (EIM) Required
Air Conditioner	Required	Either type may be used	EL296V, SL280V, SL280NV, SL297NV or SLP99V Furnace	Most Furnaces
	Required	Either type may be used	CBA38MV Air Handler	Most Air Handlers
Heat Pump	Required	Either type may be used	EL296V, SL280V, SL280NV, SL297NV or SLP99V Furnace	Most Furnaces
	Required	Either type may be used	CBA38MV Air Handler	Most Air Handlers

<sup>1</sup> Lennox communicating indoor units may be used with either a Lennox communicating outdoor unit or a conventional non-communicating outdoor unit (some system features will be reduced with a non-communicating outdoor unit).

<sup>2</sup> Any conventional non-communicating indoor unit requires the Optional Equipment Interface Module (EIM) when used with either a Lennox communicating outdoor unit or a conventional non-communicating outdoor unit.

NOTE - The Equipment Interface Module (EIM) is not for use with Lennox communicating outdoor units.

## THERMOSTAT AND ACCESSORIES ORDERING INFORMATION



Description	Catalog No.
Lennox® S40 Smart Wi-Fi Thermostat (with Subbase) Dimensions (H x W x D): 5 x 7-1/4 x 1 in.	<b>22V24</b>
Lennox® Smart Room Sensor Dimensions (H x W x D): 4 x 5-1/2 x 3 in.	<b>22V25</b>
Lennox® Wireless Extender Dimensions (H x W x D): 4 x 5-1/2 x 2-1/2 in.	<b>22V26</b>
Lennox® Smart Air Quality Monitor - Dimensions (H x W x D) 3-5/8 x 4-3/8 x 1-3/8 in.	<b>21P02</b>
Equipment Interface Module (EIM) - For most non-communicating HVAC systems including dual-fuel capable non-communicating heat pumps Dimensions (H x W x D): 6-1/8 x 7-1/2 x 1-3/8 in. NOTE - Equipment Interface Module (EIM) is also required for HRV/ERV integration with the S40 Thermostat.	<b>22X18</b>
<sup>1</sup> Optional Outdoor Air Temperature Sensor	<b>X2658</b>
<sup>2</sup> Discharge Air Temperature Sensor	<b>88K38</b>

<sup>1</sup> The Optional Outdoor Air Temperature Sensor may be used with a Lennox Communicating equipped outdoor unit for a secondary (alternate) sensor reading. The Optional Outdoor Air Temperature Sensor may be ordered for use with a conventional outdoor unit.

NOTE - The Optional Outdoor Air Temperature Sensor is REQUIRED for dual-fuel applications with a non-communicating heat pump outdoor unit.

<sup>2</sup> Required with Air Handler applications when using EVENHEATER® option. Optional on all other applications for service diagnostics.

## FEATURED INDOOR/OUTDOOR/IAQ PRODUCTS

### Dave Lennox *Signature*® Collection SLP99V Variable-Capacity, Variable-Speed Furnaces

- ENERGY STAR® qualified



- Up to 99.0% AFUE energy efficiency
- Variable capacity operation
- Variable speed blower motor
- Multi-position design
- Lennox® Communicating Control
- Precise Comfort® technology
- AirFlex™ technology
- Fully insulated cabinet
- SureLight® Control delivers operation reliability

- Silicon nitride igniter
- Also available - SL297NV, SL280V, SL280NV and Elite® EL296V Gas Furnaces

### Dave Lennox *Signature*® Collection SL28XCV Variable Capacity Air Conditioners

- ENERGY STAR® qualified
- Up to 25.8 SEER2 / 28.0 SEER cooling efficiency
- Lennox® Communicating Control
- Precise Comfort® Technology
- SilentComfort™ Technology
- Quiet operation, as low as 56 dBA
- Quantum™ Coil
- R-410A refrigerant
- Dependable and efficient variable capacity scroll compressor
- SmartHinge™ louvered coil protection.
- Also available - XC21 Two-Stage or Elite® EL23XCV, EL18XCV and XC20 Variable Capacity



### Dave Lennox *Signature*® Collection SL25XPV Variable Capacity Heat Pumps

- ENERGY STAR® qualified
- Up to 23.0 SEER2 / 24.0 SEER cooling and 10.3 HSPF2 / 11.8 HSPF heating efficiency
- Lennox® Communicating Control
- Precise Comfort® Technology
- SilentComfort™ Technology
- Quiet operation, as low as 55 dBA
- R-410A refrigerant
- Dependable and efficient variable capacity scroll compressor
- SmartHinge™ louvered coil protection
- Also available - XP21 Two-Stage or Elite® EL22XPV, EL18XPV and XP20 Variable Capacity



### Dave Lennox *Signature*® Collection CBA38MV Variable-Speed Air Handlers



- 4-way multi-position design
- Lennox® Communicating Control
- Variable speed blower motor
- Quantum™ Coil
- R-410A refrigerant compatible
- Automatic comfort control for lower, summertime humidity levels
- Anti-microbial drain pan resists the growth of mold and mildew

### Equipment Interface Module (EIM)

- Allows the S40 Thermostat to be used with most non-communicating HVAC systems (24VAC)
- The EIM emulates a Lennox® Communicating indoor unit (with reduced communication features)
- See the Equipment Interface Module (EIM) Product Specifications bulletin for additional information



**NOTE** - Equipment Interface Module (EIM) is also required for HRV/ERV integration with the S40 Thermostat.

### PureAir™ S Air Purification System

- Combines multiple air purification technologies into a single, state-of-the-art, air purifier
- Filtration - Carbon Clean 16® (MERV 16) media filter captures more than 95% of particles 0.3 microns and larger and more than 90% of particles 0.01 microns and larger
- Photocatalytic Oxidation - UVA lamp activates the photo-catalyst on the PureAir Cartridge that captures and destroys odors and chemical vapors
- Reduces ozone



### HRV Heat/ERV Energy Recovery Ventilators

- Heat Recovery Ventilators (HRV) provide fresh, clean outdoor air with an energy saving temperature recovery of up to 90%
- HRV's are recommended in regions where normal humidity levels occur
- Intake and exhaust air passes through a patented thermally conductive aluminum core where heat is transferred from exhaust air to incoming air
- Provides fresh, clean outdoor air with an energy saving temperature recovery of up to 90%
- Energy Recovery Ventilators (ERV) exchange energy (temperature and humidity) from stale indoor air and transfer it to incoming outdoor fresh air
- ERVs are effective ventilation for both warm and cool climates



**NOTE** - Equipment Interface Module (EIM) is required for HRV/ERV integration with the S40 Thermostat.

**ATTENTION** - The Lennox® S40 Smart thermostat with Equipment Interface Module (EIM) will work with most 24VAC furnaces, air conditioners, air handlers and heat pumps (up to 3 stages of heat and 2 stages of cooling).  
**NOTE** - S40 Thermostat WILL NOT WORK with other brands of communicating HVAC equipment other than LENNOX®.

## REMOTE ACCESS (HOMEOWNER/INSTALLER)

### MOBILE APPS

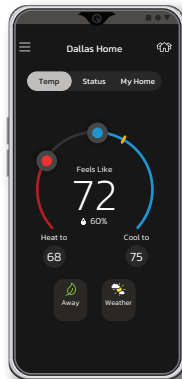
#### LENNOX SMART THERMOSTAT APP (HOMEOWNER)



The free Lennox Smart Thermostat App is available for use on smartphones.

Control cooling/heating temperatures, fan operation, set programs and set Away mode for multiple locations.

Also controls individual zone settings if system is equipped with the optional Lennox Smart Zoning System.



#### LENNOX PROS APP (INSTALLER)



LennoxPROs mobile application has all the information HVAC Professionals and businesses need in one place.

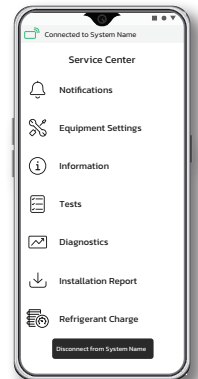
- Product Catalog
- Residential/Commercial products
- Parts and Supplies
- Clearance Center
- Real-Time Product Availability
- Technical Tools
- AHRI Residential Match-up Tool
- OEM Repair Parts
- Technical Documents
- Sales Tools
- Marketing Brochures
- Commercial Quick Quote
- Warranty Tools
- Warranty Lookup
- Training Center
- My Learning

#### LENNOX SMART TECHNICIAN APP (INSTALLER)



Allows the installer to commission the system and remotely turn the system on and off during setup or service call from a smartphone.

Allows quick connection to the thermostat via Bluetooth for easier system configuration changes via a Smartphone.



- Install and manage Smart Room Sensors and Wireless Extenders through the app only
- Manage Lennox Smart Air Quality Monitor
- Equipment Configuration Profile (ECP):
  - Allows dealers to create unique equipment profiles specific to products sold at their dealership
  - Can be imported into the homeowner's smart thermostat reducing setup times



## HOME AUTOMATION

### AMAZON® ALEXA

The Lennox® S40 Smart Thermostat is an Amazon® Alexa-enabled, smart-home compatible thermostat.

Allows the homeowner to tell Alexa to adjust the temperature.

For additional information please visit the [Support Website for Amazon Alexa Integration](#).



See User Guide for additional information about device setup and available voice commands.

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### CONTROL4® SMART HOME | OPERATING SYSTEM

Control4 is a leading control and automation platform which works with thousands of smart devices integrating audio, video, lighting, security, intercom, and climate control into a seamless customer experience

Control4 gives the customer an easy-to-use interface to control the Lennox® S40 thermostat.

Settings include:

- Display all systems in the home and select a system
- Display all zones in the system and select a zone
- Turn system or zones on or off
- Change manual modes (heat, cool, off)
- Change heating/cooling setpoints for each zone/system
- Change fan mode (on, auto, circulate)

For additional information please visit the [Support Website for Control4 Integration](#).



**NOTE** - For integration with Lennox® S40 Thermostats, the customer must contact their [Control4](#) dealer directly to download and install the necessary driver for their operating system.

Control4® is a registered trademark of Control4 Corporation. All rights reserved.

### GOOGLE ASSISTANT™

Control basic functions of the Lennox® S40 Smart Thermostat using Google Assistant.

Download the Google Home app from Google Play or the App Store™ on a compatible phone or tablet, then follow the on-screen steps to finish setup.

Once you have added the thermostat to your Google Home app install the Google Assistant app (Android and IOS) to enable voice control.

**NOTE** - The Google Assistant app may already be installed on the Android device.

For additional information please visit the [Support Website for Google Assistant Integration](#).



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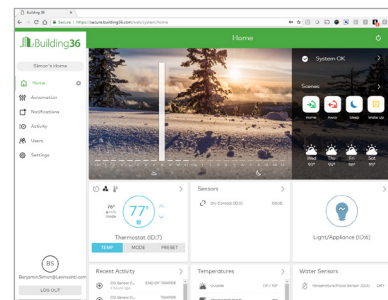
### BUILDING36® PRACTICAL HOME AUTOMATION

Building36® is a leading control and automation company that delivers next-generation smart home solutions which work with thousands of smart devices, integrating control for HVAC, water, video, lighting/appliance and security into one location

Building36® gives the customer an easy-to-use interface via the Building36 Dashboard or the Building36 Home Mobile App to control the Lennox® S40 thermostat

Settings include:

- Display all systems in the home and select a system
- Display all zones in the system and select a zone
- Turn system or zones on or off
- Change manual modes (heat, cool, off)
- Change heating/cooling setpoints for each zone/system
- Change fan mode (on, auto, circulate)



AN ALARM.COM COMPANY

For additional information please visit <https://building36.com>

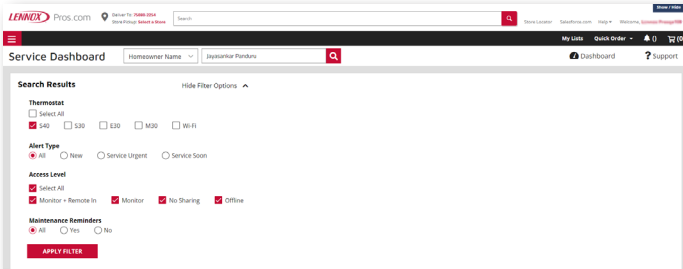
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## SERVICE DASHBOARD

- Displays Installer's S40 thermostat installations (and other Lennox Smart Thermostats) in one convenient location
- Accessible through the Service Dashboard on the Lennox Pros app or at [www.LennoxPros.com](http://www.LennoxPros.com)

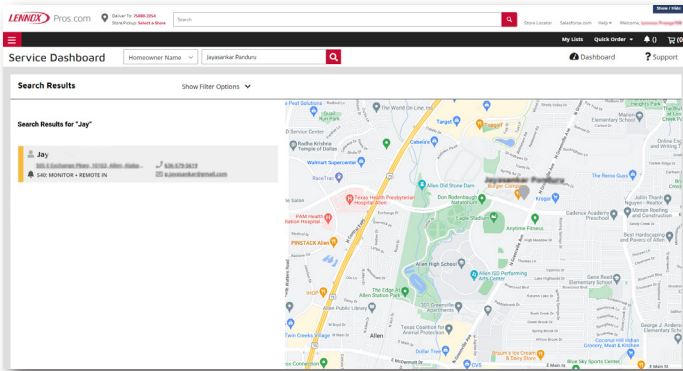
### Service Dashboard Search Screen



Customers can be searched using the following criteria: first name, last name, zip code, city, email address, equipment type, error code, serial number or model number.

Customer searches can be filtered by various options: thermostat type, alert type, access level or maintenance reminders.

### Customer Results Screen



- Displays a list of customers with installed Lennox® S40 Thermostats (and other Lennox Smart Thermostats) and their locations:
  - Name
  - Address
  - Phone
  - Email
  - Thermostat Type and Monitor Status

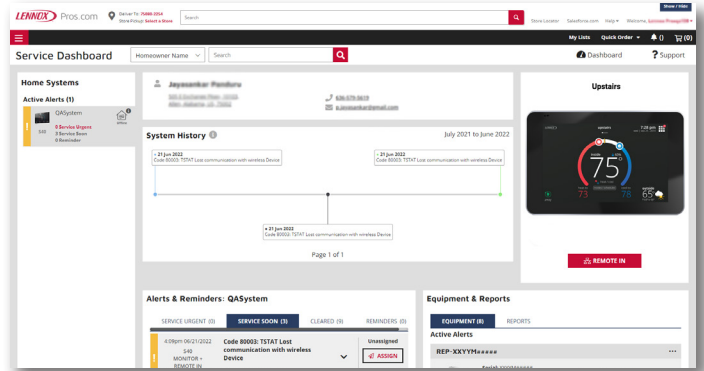
### Map

- Map shows all customer's locations and any current alerts
- Color-coded pins on the map denote the following:
  - Red - Critical Alert
  - Yellow - Moderate Alert
  - Green - No Alerts, normal operation
  - Black - No system information sharing

Click on a customer's pin to view information about their system.

Selecting a customer from the list or map pin displays the detailed System Overview Screen including owner information, system components, system history, status and any alerts.

## Customer Details Screen



### Home Systems

- Thermostat Connection Status

Multiple home systems are displayed for each customer if there are more than one system.

### System History

- A list of alerts over the past 12 months

### Alerts and Reminders

- Tabs for Alerts - Critical, Moderate, Cleared

Clicking on a card with an alert expands to display the Remote In control (if enabled by the homeowner) and Troubleshoot (access to the Lennox Troubleshooting Center which includes error code lookups and any available documentation).

- Tab for Reminders

### Equipment Tab

- A detailed list of all installed equipment for a particular system
- View new products installed in home and see the current air quality score (if IAQ monitor is installed)

Menus are available for each Equipment Type for Technical Documents, Warranty Lookup and Repair Parts.

### Reports Tab

- View Performance Reports, Installation Reports and Installation Update Reports
- Generate Monthly Performance Reports
- Generate Installation Update reports
- View Performance Reports Button displays a graphical view of the system performance, see page 10

Generating any report will save it as a PDF file to send to the customer or for record keeping.

### Remote In Button

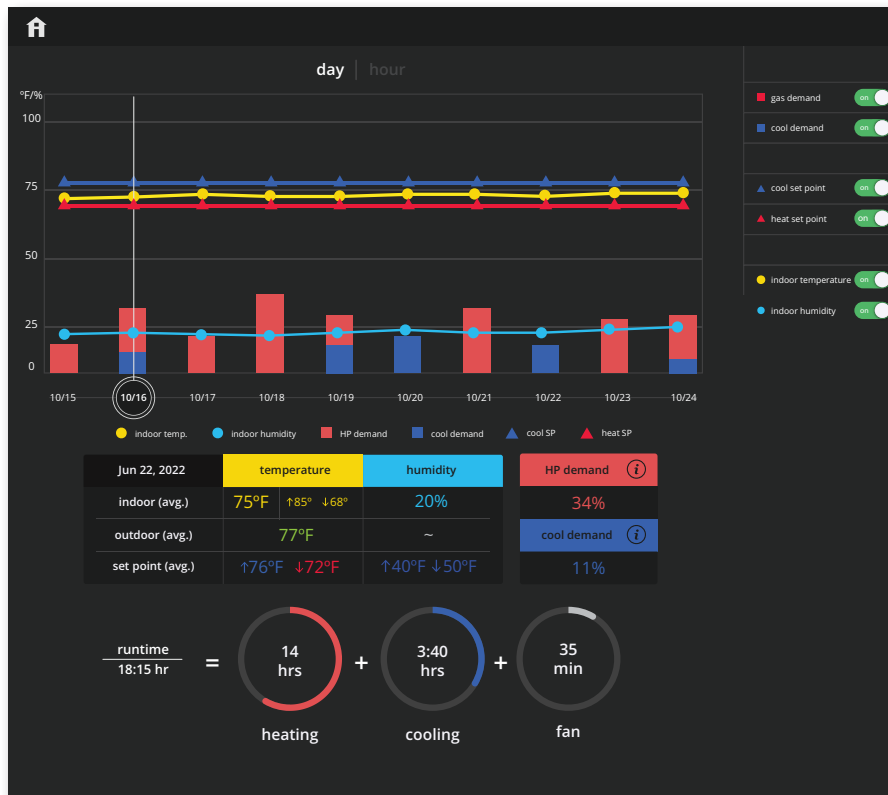
- Allows installer remote control of customer's thermostat (if enabled)

Remote In thermostat controls have the same appearance and functions as the touchscreen display, making it easy to make any settings and adjustments.

Button is red if access is granted by homeowner and gray if Remote In is disabled at the thermostat.

**NOTE** - For additional information please visit the [Service Tools Help Center](http://www.LennoxPros.com/ServiceToolsHelpCenter) and click on Service Dashboard.

## PERFORMANCE REPORTS WEB PORTAL



NOTE - Performance Reports are only available through a web portal.

NOTE - Performance Reports are not available on the Lennox® S40 Thermostat directly or the Mobile Apps. Homeowner can sign up by email to receive monthly performance reports.

- Installer access is available through the Service Dashboard at [www.LennoxPros.com](http://www.LennoxPros.com)
- Displays graphs for daily (10 days) or hourly (24 hours) system operation

Select a day on the graph (click) to display that day's Performance Report. Click "Hour" at the top of the screen or double-click a particular day to display that day's Hourly Report.

Installer has the ability to view screens for individual hours and minutes (selectable at top of screen). Status bar at top of screen also displays additional information about system operation (user changes, alerts, reminders).

- Display temperatures in °F or °C
- Display 12 or 24 hour time in hourly view

### Linear Graph

- Cooling/Heating Setpoint (SP) Range
- Perfect Temperature Setpoint (SP) Range
- Humidification/Dehumidification Setpoint (SP) Range
- Indoor/Outdoor Temperature Range
- Indoor/Outdoor Humidity Range

### Bar Graph

- Cooling Demand
- Heat Demand
- Humidifier Demand

### Table Display

- Indoor/Outdoor Temperature Average and Setpoints
- Indoor/Outdoor Humidity Average and Setpoints
- Cooling Demand %
- Heat Pump Demand %
- Gas or Electric Heat Demand %

Click the ⓘ button on cooling or heating demands for additional information.

- Fan Operation (On, Auto, Circulate)
- Mode (Cool, Heat, Emergency Heat, Schedules)

Fan Operation and Mode are only displayed when viewing hourly reports.

### Circle Graph

- Total system runtime, number of runtime hours for cooling and heating demands plus separate graphs for humidify, dehumidify and fan only runtime

Hide/Show Pane on right allows user to hide or show different parameters on display.

Only certain parameters are displayed depending on the type of system installed (air conditioner, heat pump, dual-fuel) and how the system is configured.

Year-to-year and month-to-month comparison reports are also available.

**NOTE** - Installer has the ability to view and generate reports (PDF) for up to 12 months to email to homeowner.

## HOMEOWNER SETTINGS

### HOME SCREEN (Thermostat ON)



### Notes

- ① Touch blank screen to turn on the backlight. If proximity sensor is on (approximately 12 in. range) display will turn on automatically.
- ① If system is Off, the Power Button is displayed below the temperature/humidity display. Touch to set the Mode and start the system.

### Temperature Settings

Large display of current inside temperature (°F or °C)

Heating and Cooling Setpoint Indicators on the round temperature band

Current cooling setpoint temperature Button (Cool-To)

Current heating setpoint temperature Button (Heat-To)

- ① Touching the heat or cool setpoint indicators on the round temperature band, or touching the **Heat-To** or **Cool-To** buttons displays the heat or cool menu screens (see page 14).
- ① Both heating and cooling setpoint indicators on the round temperature band and the **Heat-To** and **Cool-To** buttons are displayed if System is set to Heat/Cool mode or if an active schedule is set to Heat/Cool mode.

### Current Outdoor Temperature and Weather Forecast

Displays current outdoor temperature in °F or °C and the current weather forecast

- ① The default outdoor temperature is supplied by the Outdoor Air Temperature Sensor or the Wi-Fi data connection (homeowner selectable on the thermostat). The outdoor sensor is furnished as standard with Lennox® Communicating outdoor units, optional for conventional units.
- ① Touch to display **Weather Forecast** screen (see page 15).

### Time and Date Display

Displays current date and time

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### Humidity Display

Displays current inside relative humidity below current indoor temperature

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### Menu Button

- ① Touch to display **Menu** screen (see page 13).
- ① Any Notifications will be displayed over the top-right corner of the Menu Button.

### Away Button

- ① Touch to enable **Away** mode (see page 15).

### Temp Button

Returns to the Home Screen. Displays current temperature screen for the current system where the thermostat and sensors are located

- ① Touch the **Temp** button when on the **Status** or **Home** screen to return to the main screen.

### Status Button

Displays current system operating status screen for the current system/area where the thermostat and sensors are located

- ① See page 15.

### My Home Button

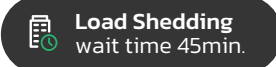
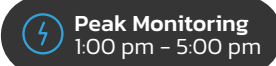
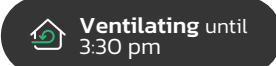
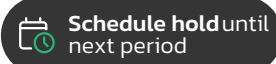
Displays status screen for single and multiple home systems where the thermostat and sensors are located

- ① See page 12.

## HOMEOWNER SETTINGS

### HOME SCREEN (Thermostat ON)

#### System Status Icons (right side of home screen)

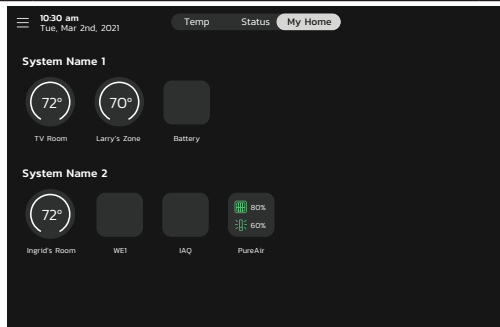


(examples)

### Notes

- ❓ Up to four status icons can be displayed at one time on the right side of the screen.
- ❓ **Schedule Hold** is displayed when a current schedule override is in effect. **Cancel** returns to current schedule (see page 13).
- ❓ **Coasting** allows the current temperature to reach desired setpoint without system operation by "coasting" to the set heating or cooling setpoint. **Cancel** returns to current schedule.
- ❓ **Ventilating** is only displayed if the optional Fresh Air Damper or HRV/ERV Heat/Energy Recovery Ventilator is part of the system. Touch **Cancel** to stop ventilation operation. (Also see page 21)
- ❓ **Peak Monitoring** allows the utility company to control the energy savings time period (California only). You can select cancel to exit this mode.  
By canceling homeowner is opting out of the current active energy savings events. (Also see page 29).
- ❓ PureAir status is only displayed if the optional PureAir™ S Air Purification System is part of the system. Touch the status indicator to display the PureAir S Performance screen (see page 28).

### MY HOME SCREEN

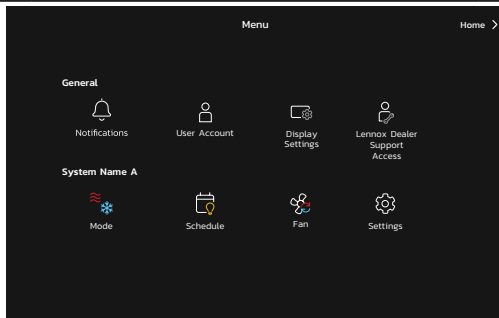


### Notes


- ❓ Displays current conditions for thermostat, Smart Room Sensors, Wireless Extender and Smart Air Quality Monitor (if equipped)  
Also displays Lennox Smart Zoning System and PureAir® filter and purifier life (if equipped).
- ❓ A Notification symbol will be displayed over the top-right corner of the My Home Button (if required).
- ❓ Touch an icon to view the **Temp** screen for that particular zone, sensor or PureAir status (if equipped). (Also see page 23).

# HOMEOWNER SETTINGS

## MENU SCREEN



### Notes

- Touch the **Menu** button  on the home screen to display the **Menu** screen.
- If multiple thermostat control systems are available they will be shown below the General menu settings.

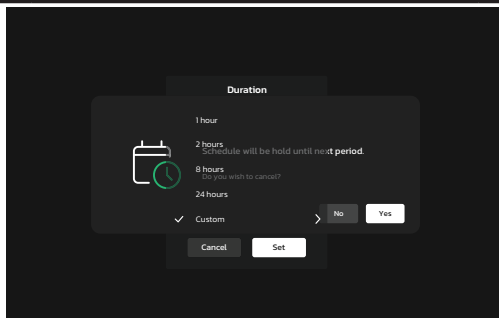
### General

Notifications	See page 28
User Account	See page 26
Display Settings	See page 25
Lennox Dealer Support Access	See page 24


### System Name

Mode	See page 13
Schedule	See page 27
Fan	See page 14
Settings	See page 16

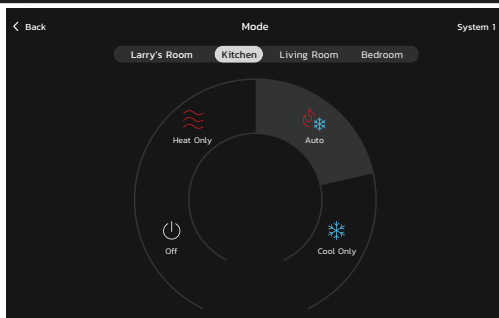
## SCHEDULE HOLD SCREEN




### Notes

- Touch the **Menu** button  on the home screen to display the Schedule button. Touch the **Schedule** button to display the screen.
- The **Schedule Hold** screen is displayed after changing the temperatures on the heating or cooling screens while a schedule is running (see page 14). Preset 1, 2, 8, 24 hours or custom setting (using the Time Tool) sets and hold the temperature for a preset or custom time period until the next time period setting. Touching the **Schedule Hold Status Icon** on Home Screen cancels the held setting.

## MODE SCREEN



### Notes

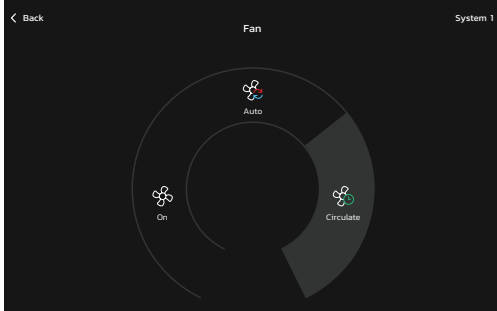
- Touch the **Menu** button  on the home screen to display the Mode button. Touch the **Mode** button to display the screen.
- Touch the different home areas (if available) to set the modes for different spaces in the home
- Touch **back** button to return to the Home Screen.

### Select System Mode


Off Button	Touch each button to set the mode operation.
Heat Only Button	
Emergency Heat Button (heat pump systems only)	
Auto Button	
Heat/Cool Button	
Cool Only Button	

# HOMEOWNER SETTINGS

## FAN SELECT SCREEN



### Notes

- Touch the **Menu** button  on the home screen to display Fan button. Touch the **Fan** button to display the screen.
- Touch the **Back** button to return to the Home Screen.

Select Fan Mode	On
	Auto
	Circulate

- Touch each button to set the fan operation.

## HEAT MENU SCREEN



### Notes

- On the Home Screen, touching the heat setpoint indicators on the round temperature band, or touching the **Heat-to** button displays the Heat Menu screen.
- Touch and move the red heat setpoint indicator on the round temperature band, or touch the **plus** or **minus** buttons to change the heating setpoint in one degree increments. Adjustable 60 to 90°F.
- During a scheduled time period, touching either the setpoint indicator on the temperature band or the heat-to button will initiate a temporary override (schedule hold) (see page 13).

Heating setpoint display
Heating Setpoint Indicator on the round temperature band
Plus (+) and Minus (-) buttons

## COOL MENU SCREEN



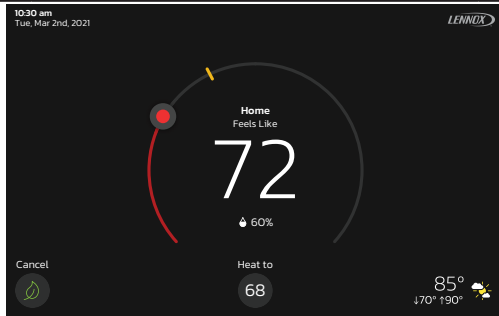
### Notes

- On the Home Screen, touching the cool setpoint indicators on the round temperature band, or touching the **Cool-to** button displays the Cool Menu screen.
- Touch and move the blue cool setpoint indicator on the round temperature band, or touch the **plus** or **minus** buttons to change the cooling setpoint in one degree increments. Adjustable (60 to 90°F).
- During a scheduled time period, touching either the setpoint indicator on the temperature band or the cool-to button will initiate a temporary override (schedule hold) (see page 13).


Cooling setpoint display
Cooling Setpoint Indicator on the round temperature band
Plus (+) and Minus (-) buttons

# HOMEOWNER SETTINGS

## AWAY SCREEN

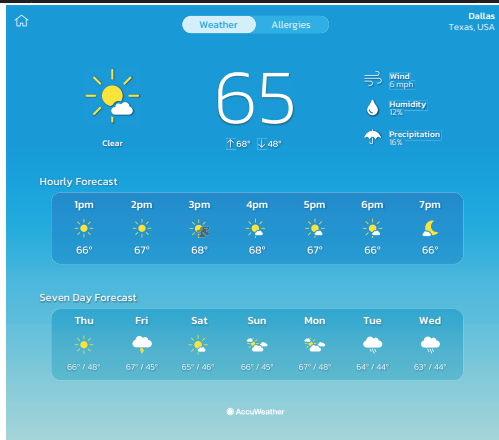


## Notes

- Touch the **Away** button  on the home screen to enable Away Mode. Also see page 16 for Away Mode settings.
- Touch the **Cancel** button on the home screen to end Away Mode and return to current system operation.
- Away Mode affects all zones in the system.

Initiates preset heating/cooling setpoints during unoccupied periods  
 Cancel Away Mode Button (home screen)

## WEATHER FORECAST SCREEN



## Notes

- Wi-Fi must be enabled to access weather forecast screen.
- Weather information is provided by [Accuweather](#). Configured in the Display settings (see page 25).

Current conditions (temperature, high-low temperature forecast for current day, precipitation percentage, wind and relative humidity)

Hourly forecast

7-Day forecast

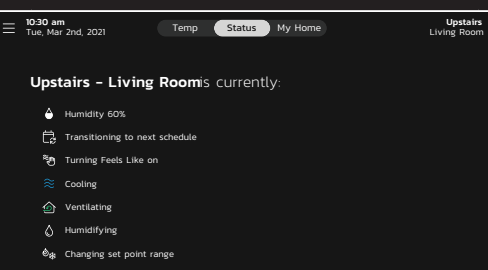
Pollen conditions (tree, weed, grass, mold)

UV Index

Air Quality

- Touch the **Weather** button at the top of the screen to see the current conditions.
- Touch the **Allergies** Button at the top of the screen to see current conditions. Touch the individual pollen, UV and air quality circles to see the conditions scale (low-medium-high).

## STATUS SCREEN



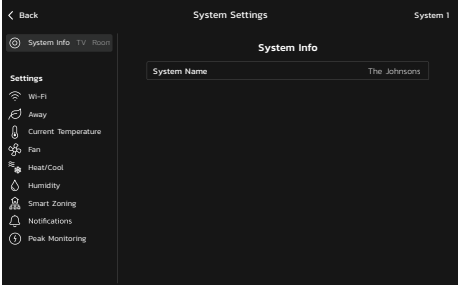

## Notes

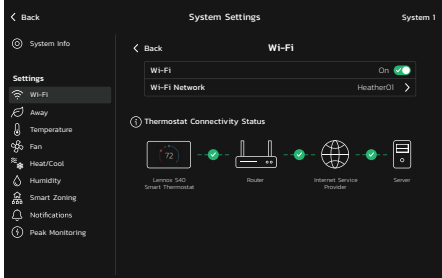
- Depending on system type and operation, status screen will display various modes and conditions, including Humidity (%), Current Schedule, Schedule Transitioning, Heating, Cooling, Ventilating (fan mode), Humidifying/Dehumidifying, Aux. Heat, Ambient Lockout, Load Shedding and more for the zone/area selected on the My Home screen.

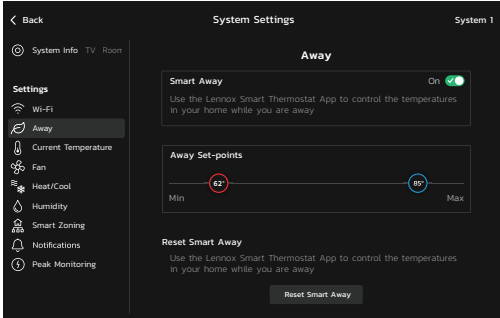
Displays current system operating status screen for the current system/area where the thermostat and sensors are located

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# HOMEOWNER SETTINGS

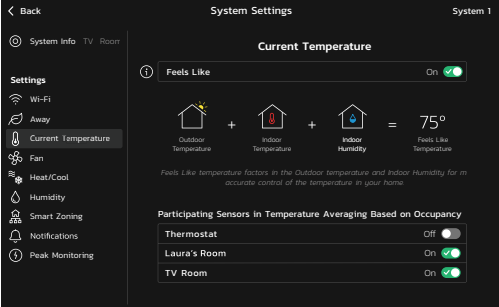
SYSTEM SETTINGS SCREEN		Notes																		
		<ul style="list-style-type: none"> <li>Touch the <b>Menu</b> button  on the home screen to display the Settings button. Touch the <b>Settings</b> button to display the System Settings screen.</li> <li>Touch <b>System Name</b> to rename the system using the keyboard tool.</li> <li>Touch a parameter on the left side of the screen to display that particular screen.</li> <li>Touch the <b>back</b> button to return to the Home Screen.</li> </ul>																		
Access to all user settings	<table border="1"> <tr><td>Wi-Fi</td><td>See page 16</td></tr> <tr><td>Away</td><td>See page 15</td></tr> <tr><td>Current Temperature</td><td>See page 17</td></tr> <tr><td>Fan (Allergen Defender)</td><td>See page 17</td></tr> <tr><td>Heat/Cool</td><td>See page 18</td></tr> <tr><td>Humidity</td><td>See page 19</td></tr> <tr><td>Smart Zoning (if installed)</td><td>See page 20</td></tr> <tr><td>Notifications</td><td>See page 20</td></tr> <tr><td>Peak Monitoring</td><td>See page 29</td></tr> </table>	Wi-Fi	See page 16	Away	See page 15	Current Temperature	See page 17	Fan (Allergen Defender)	See page 17	Heat/Cool	See page 18	Humidity	See page 19	Smart Zoning (if installed)	See page 20	Notifications	See page 20	Peak Monitoring	See page 29	
Wi-Fi	See page 16																			
Away	See page 15																			
Current Temperature	See page 17																			
Fan (Allergen Defender)	See page 17																			
Heat/Cool	See page 18																			
Humidity	See page 19																			
Smart Zoning (if installed)	See page 20																			
Notifications	See page 20																			
Peak Monitoring	See page 29																			

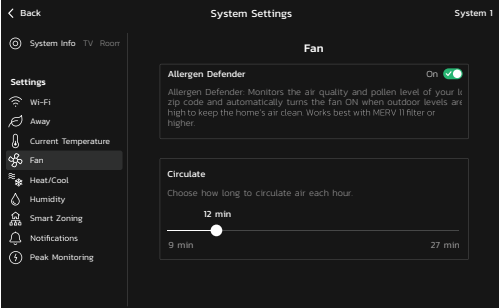
WI-FI SCREEN		Notes
		<ul style="list-style-type: none"> <li>Touch <b>Wi-Fi Network</b> to see a list of available networks or to add a network connection not shown (other). Also displays network status (secured/unsecured), strength.</li> <li>Touch the <b>i</b> button for additional information about a particular network (name, SSID, security, RSSI, etc.).</li> <li>Touch a particular network ID to connect to that network. Enter password to connect.</li> <li>A red "X" means that there is an issue with a connection point that must be resolved.</li> </ul>
A graphical representation of the home network showing the connection status from the Thermostat to the Internet to the Lennox server.		
Wi-Fi Button (on/off)		
Wi-Fi Network		

AWAY SETTINGS SCREEN	Setting	Default	Notes
			<ul style="list-style-type: none"> <li>Touch <b>Away</b> to display the Smart Away® settings. Use the slider to adjust the Away Cooling/Heating Setpoints.</li> <li>Use the Lennox Smart Thermostat App to control the temperatures in the home while away.</li> </ul>
Controls the temperature in the home while away.			
Smart Away®	On/Off		
Away Setpoints	60 to 90°F	<b>62°F heating</b> <b>85°F cooling</b>	
Reset Smart Away® (disables Smart Away® on all mobile devices)			



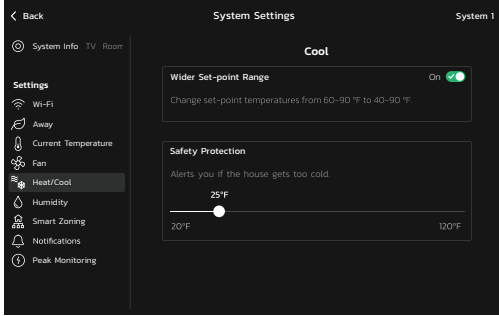
# HOMEOWNER SETTINGS

CURRENT TEMPERATURE SCREEN	Setting	Notes
		<ul style="list-style-type: none"> <li>Touch <b>Current Temperature</b> to display the Current Temperature Screen.</li> </ul>
<p>Accurately controls temperature in the home by determining the “Feels Like™” temperature based on outdoor temperature, indoor temperature plus indoor relative humidity.</p>	On/Off	
<p>Smart Room Sensors</p>	On/Off	<ul style="list-style-type: none"> <li>Participating Smart Room Sensors can be enabled or disabled and also be enabled or disabled for Temperature Averaging based on occupancy (sleep).</li> </ul>

FAN SCREEN	Setting	Default	Notes
			<ul style="list-style-type: none"> <li>Touch <b>Fan</b> to display the Fan Screen.</li> <li>Allergen Defender monitors the air quality and pollen levels of your local zip code and automatically operates the indoor blower during times of reported high pollen levels to keep the home’s air clean. Wi-Fi connection is required.</li> <li>Works best with MERV 11 filters or higher.</li> </ul>
<p>Allergen Defender (cleaning air)</p>			
<p>Set how long to circulate the air each hour.</p>	9 to 27 minutes	<b>20 minutes</b>	

# HOMEOWNER SETTINGS

## HEAT/COOL SCREEN



Adjustments for heating and cooling setpoints, auxiliary heat, safety protection and other settings.

- Touch **Heat/Cool** to display the Heat/Cool Screen.
- Depending on system mode setting, **Heat/Cool**, **Heat** or **Cool** only is displayed in the System Settings.

Perfect Temp (Non-Zoning Systems Only) Control heating and cooling temperatures with a single setpoint.	On/Off	
Wider Setpoint Range Control heating and cooling temperatures with a wider setpoint range	On/Off (Changes temperature range from 60-90°F to 40-99°F)	---
<b>SL25XPV, XP20</b> Select Heat Pump Mode	Normal - Heats the home with the highest efficiency	---
	Comfort (TruHeat) - Heats the home with warmer air but with reduced efficiency	
Auxiliary Heat (Heat Pump Systems Only)	On/Off Allows auxiliary heat operation if temperature drops below set balance point -20 to 75°F, adjustable	Selecting <b>Auxiliary Heat</b> displays a slider to adjust balance point levels.
Safety Protection	30 to 100°F, adjustable	<b>Safety Protection</b> alerts the homeowner if the house is too cold or hot.

# HOMEOWNER SETTINGS

HUMIDITY SCREEN		Setting	Default	Notes
				<p>Touch <b>Humidity</b> to display the Humidity Screen.</p> <p><b>Dewpoint</b> setting is only available with remote Outdoor Temperature Sensor. Sensor is furnished as standard with Lennox® Communicating outdoor units, optional for conventional units (-15 to 15%, adjustable, default is <b>0%</b>).</p> <p><b>Humidification Control Center</b></p> <ul style="list-style-type: none"> <li><b>Basic</b> setting is recommended for moderate climates. Operates the humidifier when there is a call for heating and humidification.</li> <li><b>Max</b> setting is recommended for drier climates. Operates the humidifier when there is a call for humidification only.</li> </ul> <p><b>Dehumidification Control Center</b></p> <ul style="list-style-type: none"> <li><b>Basic</b> setting is recommended for moderate climates. Operates the dehumidifier when there is a call for cooling and dehumidification.</li> <li><b>Max</b> setting is recommended for humid climates. Operates the dehumidifier when there is a call for dehumidification only. May cool beyond desired setpoint by 2 degrees.</li> <li><b>Climate IQ®</b> setting monitors regional weather conditions and automatically removes excess humidity when necessary.</li> </ul> <p>Climate IQ® settings are only available for Lennox® Communicating outdoor units (SL28XCV/SL25XPV, XC21/XP21, XC20/XP20) without any optional humidification/dehumidification equipment installed.</p> <p>Adjustable sliders allows Dehumidification/Humidification/Overcooling Setpoint adjustment.</p> <p>Depending on humidity/dehumidity mode settings selected not all settings may be visible.</p>
Off (default)				
Humidify		Normal, Max, Dewpoint		
Dehumidify		Normal, Max, Climate IQ® (Auto) Dewpoint (on/off)		
Humidify + Dehumidify				
Humidification Setpoint	15 to 45% relative humidity, adjustable		<b>40%</b>	
Dehumidification Setpoint	40 to 60% relative humidity, adjustable		<b>50%</b>	
Overcooling Setpoint (Max or Climate IQ® only)	0 to 4°F, adjustable		<b>2°F</b>	
Humidification (left slider) + Dehumidification (right slider) Setpoint	15% to 60%, adjustable,		<b>15%</b> humidification <b>40%</b> dehumidification	

# HOMEOWNER SETTINGS

## LENNOX SMART ZONING SYSTEM ZONING SCREEN (if equipped)



System components include the S40 thermostat, Lennox Smart Zoning Damper Control Module (DCM), individual In-Zone Thermostats and Motorized Dampers.

Zoning (On/Off)  
 Zone 1 (Primary Zone)  
 Zone 2  
 Zone 3  
 Zone 4

### Notes

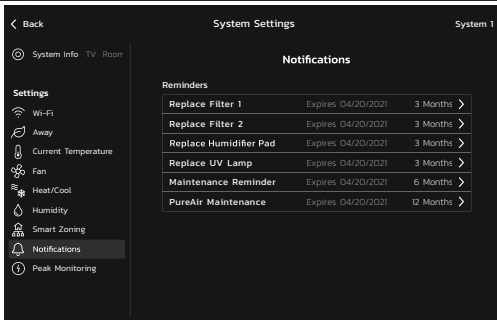
- Touch **Smart Zoning** to display the Smart Zoning Screen.
- Zoning is only available for systems using the Lennox Smart Zoning System.
- Single-stage outdoor units can only be used with two equal load zones when using the Lennox Smart Zoning System. Variable capacity and two-stage outdoor units can utilize up to four zones when using the Lennox Smart Zoning System.
- See Lennox Smart Zoning System Product Specifications for additional information.

Touch any zone name to edit with the keyboard tool (maximum 30 characters).

## NOTIFICATIONS (REMINDERS) SCREEN Setting

### Default

### Notes



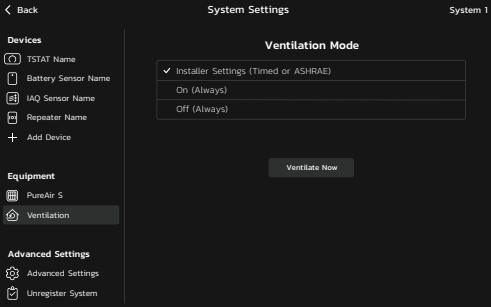
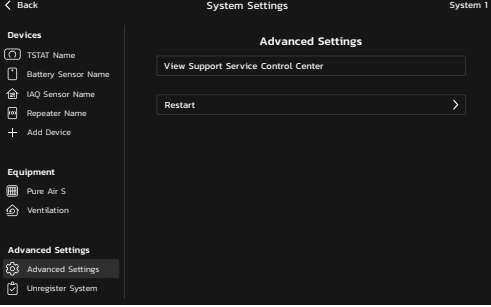
Replace Filter 1  
 Replace Filter 2  
 Replace Humidifier Pad  
 Replace UV Lamp  
 Maintenance Reminder  
 PureAir™ Maintenance  
 Ventilation Maintenance  
 Ventilation Filter

All notifications	<b>Disabled</b>
3, 6, 12, 24 Months or Custom	
Set for Calendar Time or Run-Time	
Sensor-Based (PureAir only)	

Touch **Notifications** to display the Notifications Screen.

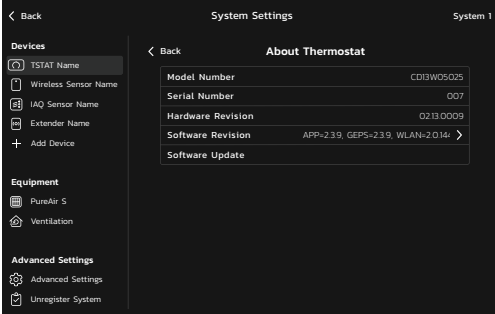
Touch **custom** to access the **Set Date Tool** screen to input custom date settings.

# HOMEOWNER SETTINGS

VENTILATION SCREEN	Setting	Notes
		<ul style="list-style-type: none"> <li>Touch <b>Ventilation</b> to display the Ventilation Screen.</li> <li><b>Timed</b> or <b>ASHRAE</b> setting allows homeowner to set a predetermined time to operate the Fresh Air Damper or HRV/ERV equipment. Touch the <b>Ventilate Now</b> button to set time and start operation. Touch the <b>Stop Ventilating</b> button to cancel operation.</li> <li><b>On (always)</b> operates the ventilating unit anytime the system or fan is operating.</li> <li><b>Off (always)</b> disables the ventilating unit anytime the system is operating.</li> </ul>
Fresh Air Damper/HRV/ERV	<ul style="list-style-type: none"> <li>Timed or ASHRAE</li> <li>On (always)</li> <li>Off (always)</li> <li>Ventilate Now Button</li> <li>10 Minutes</li> <li>20 Minutes</li> <li>30 Minutes</li> <li>40 Minutes</li> <li>50 Minutes</li> <li>1 Hour</li> <li>1 Hour 30 Minutes</li> <li>Custom</li> </ul>	<ul style="list-style-type: none"> <li>If <b>AHSRAE</b> is set in the Installer Settings the Fresh Air Damper or HRV/ERV will operate according to ASHRAE 62.2 standard "<i>Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings</i>". See page 48.</li> <li>Optional Equipment Interface Module (EIM) is also required for HRV/ERV integration with the S40 Thermostat</li> </ul>
ADVANCED SETTINGS SCREEN		
		<ul style="list-style-type: none"> <li>Touching View Support Service Control Center displays a warning "The following screens are intended for use by qualified Lennox equipment installers only".</li> <li>Restart Thermostat restarts the system without affecting settings.</li> </ul>
View Support Service Control Center - See page 30		
Restart	Restart Thermostat	
Unregister System		<ul style="list-style-type: none"> <li>Unlinks the thermostat from the customer's email account. If unregistered the thermostat must be registered to a new or existing account. See the Account Screen on page 26.</li> </ul>

# HOMEOWNER SETTINGS

## DEVICES SCREEN Notes

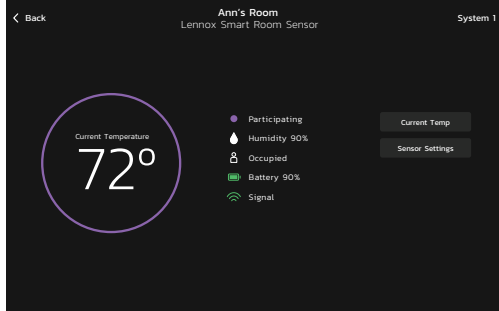


Touch Thermostat name to edit with the keyboard tool (maximum 30 characters).

Thermostat (name)	<table border="1"> <tr><td>Model Number</td></tr> <tr><td>Serial Number</td></tr> <tr><td>Software Revision</td></tr> <tr><td>- Software Revision</td></tr> <tr><td>- Last Updated</td></tr> <tr><td>Control Hardware Revision</td></tr> <tr><td>Software Update</td></tr> <tr><td>- Automatic Updates (on/off)</td></tr> <tr><td>- Check for Updates Now Button</td></tr> </table>	Model Number	Serial Number	Software Revision	- Software Revision	- Last Updated	Control Hardware Revision	Software Update	- Automatic Updates (on/off)	- Check for Updates Now Button	<p> Any software updates will display information about the update.</p>		
Model Number													
Serial Number													
Software Revision													
- Software Revision													
- Last Updated													
Control Hardware Revision													
Software Update													
- Automatic Updates (on/off)													
- Check for Updates Now Button													
Wireless Sensor (name)	<table border="1"> <tr><td>Sensor</td><td>On/Off</td></tr> <tr><td>Sensor Name</td><td></td></tr> <tr><td>Device Type</td><td>Battery Sensor</td></tr> <tr><td>About Sensor</td><td></td></tr> <tr><td>Identify Button</td><td></td></tr> </table>	Sensor	On/Off	Sensor Name		Device Type	Battery Sensor	About Sensor		Identify Button		<p> Touch Sensor name to edit with the keyboard tool (maximum 30 characters). About Sensor displays Model number, Serial number, Firmware version Touch the Identify Button to make the LED on Sensor flash to identify location</p>	
Sensor	On/Off												
Sensor Name													
Device Type	Battery Sensor												
About Sensor													
Identify Button													
IAQ Sensor (name)	<table border="1"> <tr><td>Monitor Name</td></tr> <tr><td>Device Type</td><td>Battery Sensor</td></tr> <tr><td>About Monitor</td></tr> <tr><td>Level of Indoor Cleanliness</td><td>High</td></tr> <tr><td></td><td>Medium</td></tr> <tr><td></td><td>Basic</td></tr> <tr><td>Identify Button</td></tr> </table>	Monitor Name	Device Type	Battery Sensor	About Monitor	Level of Indoor Cleanliness	High		Medium		Basic	Identify Button	<p> Touch Monitor name to edit with the keyboard tool (maximum 30 characters). About Monitor displays Model number, Serial number, Firmware version Touch the Identify Button to make the LED on Sensor flash to identify location</p>
Monitor Name													
Device Type	Battery Sensor												
About Monitor													
Level of Indoor Cleanliness	High												
	Medium												
	Basic												
Identify Button													
Extender (name)	<table border="1"> <tr><td>Extender Name</td></tr> <tr><td>Device Type</td><td>Lennox Wireless Extender</td></tr> <tr><td>About Repeater</td></tr> <tr><td>Identify Button</td></tr> </table>	Extender Name	Device Type	Lennox Wireless Extender	About Repeater	Identify Button	<p> Touch Extender name to edit with the keyboard tool (maximum 30 characters). About Repeater displays Model number, Serial number, Firmware version Touch the Identify Button to make the LED on Extender flash to identify location</p>						
Extender Name													
Device Type	Lennox Wireless Extender												
About Repeater													
Identify Button													
Add Device	<p> Sensors and Extenders can only be added to the system using the Smart Technician App.</p>												

# HOMEOWNER SETTINGS

## SENSOR SCREEN



Displays sensor participation, current temperature, humidity (%), occupied/unoccupied mode, sleep mode, battery and signal strength for a specific sensor.

Current Temp (button)

Device Settings (button)

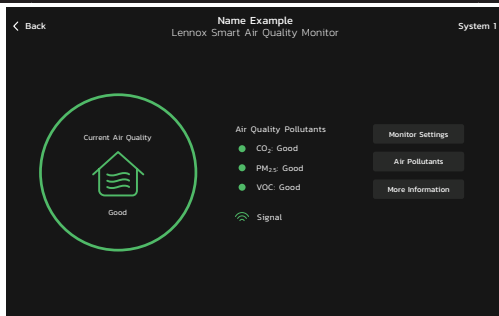
## Notes

- ① Touch an individual round **Sensor** button on the **My Home** screen to access the screen for a particular area.
- ① Any notifications (low battery, poor signal strength, etc.) will be displayed at the bottom of the screen.

① Displays System Settings/Current Temperature Setting Screen. See page 17.

① Displays System Settings/Devices screen. See page 22.

## IAQ MONITOR SCREEN



Displays current indoor air quality conditions (good, fair, poor) and signal strength for a specific monitor.

Monitor Settings (button)

Air Pollutants (button)

More Information (button)

## Notes

- ① Touch an individual square **IAQ Monitor** button on the **My Home** screen to access the screen for a particular area.
- ① Any notifications (poor signal strength, etc.) will be displayed at the bottom of the screen.

① IAQ Monitor measures Carbon Dioxide (CO<sub>2</sub>), Particulate Matter (PM<sub>2.5</sub>) and Volatile Organic Compounds (VOCs).

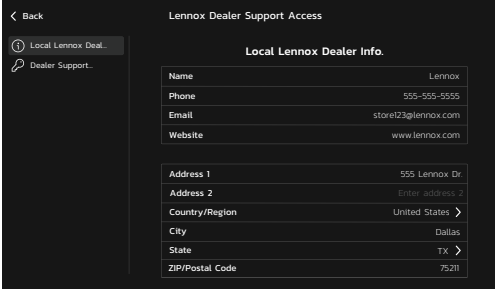
① Displays System Settings/IAQ Monitor screen. See page 23.


① Displays descriptions for the various air quality conditions monitored.

# HOMEOWNER SETTINGS

## LENNOX DEALER SUPPORT ACCESS SCREEN


### Notes




 Input installer information using the keyboard tool. Installer can also input information during installer setup.

Local Lennox Dealer Info.	Name
	Phone
	Email
	Website
	Address 1
	Address 2
	Country/Region
	City
	State

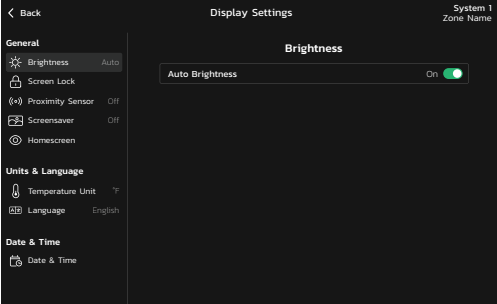
Dealer Support	Remote Sharing (On/Off)
	Alerts and Notifications - Technician (On/Off)
	Advanced Diagnostics (On/Off)
	Advanced Diagnostics Current Status (Technician connected/not connected status indicator)

 Homeowner can allow or block installer access to system information, alerts and notifications, and remote control of the system for troubleshooting, etc.

 Temporary Advanced Diagnostics Access - allows 24 hour access to the homeowner's system for diagnostics and troubleshooting. Messaging request sent to the mobile app if requested.

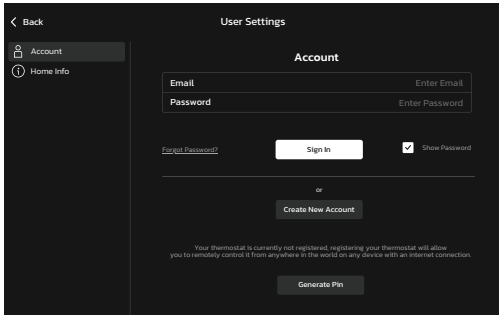



# HOMEOWNER SETTINGS

DISPLAY SETTINGS SCREEN		Notes
		<p>☎ Various settings for the Display.</p>
Brightness	Auto Brightness (on/off)	<p>☎ If <b>Auto Brightness</b> is turned off a slider appears to manually adjust the brightness of the display.</p>
Screen Lock (Prevents tampering with thermostat settings)	Unlocked (no security)	<p>☎ Lock icon on Home Screen indicates a locked or partially locked screen. To unlock, touch and hold the lock icon for 5-6 seconds.</p>
	Partially Locked (prevents tampering with the menu settings, setpoints can be adjusted)	
	Locked (prevents tampering with the thermostat)	
Proximity Sensor	On/Off	<p>☎ Proximity sensor turns on the display backlight at a specific distance from the screen.</p>
Screen Saver	Off	<p>☎ <b>Default</b> displays the current indoor temperature, outdoor temperature and time and date.</p> <p><b>Weather</b> displays the current weather conditions screen.</p> <p><b>Power Save</b> displays a blank screen until the screen is touched or the proximity sensor is activated.</p> <p><b>Photo</b> allows the homeowner to upload a photo to use as the screensaver in the Lennox Smart Thermostat App</p>
	Default	
	Weather	
	Power Save	
	Photo	
Homescreen	Outdoor Temperature Source	<p>☎ Wi-Fi must be enabled to receive weather provider information.</p> <p>☎ The default outdoor temperature is supplied by the Outdoor Air Temperature Sensor or the Wi-Fi data connection. The outdoor sensor is furnished as standard with Communicating outdoor units, optional for conventional outdoor units.</p>
	- Internet (AccuWeather)	
	- Sensor	
	Outdoor Weather (on/off)	
Temperature Unit	Indoor Humidity (on/off)	
	Fahrenheit - °F	
Language	Celsius - °C	
	English (default)	
	French	
Date & Time	Spanish	
	24 Hour Time (12 hour default)	<p>☎ Time, and date can be set using the set time/date tool. Timezone can be selected on the timezone screen.</p>
	Daylight Savings (on/off)	
	Time Zone	<p>☎ Setting date and time is disabled if there is a wi-fi connection to the thermostat.</p>
	Set Time	
Set Date		

# HOMEOWNER SETTINGS

## ACCOUNT SCREEN





 Homeowner can also sign up to receive Performance Reports via email..

Enter email and password to sign into account, recover a password, create a new account or generate a PIN number to link the S40 thermostat with the account and the Lennox Smart Thermostat App

New Account

Enter homeowner's information, email and set password information

 Registration is completed on the thermostat after establishing a wireless connection.  
 Generate Pin button allows registration at the Homeowner Remote Access website.

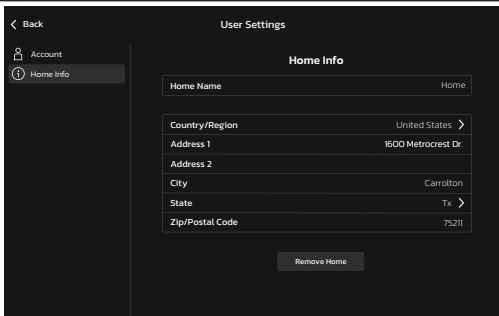
- Allow installer to receive service alerts and remotely troubleshoot the system (checkbox)

- Lennox End License user Agreement (EULA) (checkbox)

Create Account Button

Generate Pin Button

## HOME INFO SCREEN



Home Name

Country/Region

- United States

- Canada

- Australia

Address


Address 2


City

State

Zip/Postal Code

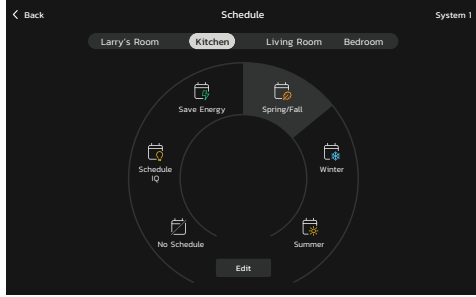
Remove Home Button

 Input home information using the keyboard tool.

 Remove Home button deletes the information for a home and unregisters all HVAC systems in the home.

# HOMEOWNER SETTINGS

## SCHEDULE SCREEN



- Touch the **Menu** button on the home screen to display the **Schedule** button. Touch the Schedule button to display the screen. Touch a schedule to run it.
- Touch **Edit Button** to change schedule settings.
- If the Lennox Smart Zoning System is part of the control system, selectable zone buttons are displayed for each zone's schedule at the top of the screen.

Set schedules for specific times of the year or edit/create custom schedules

Schedule IQ™

Summer

Winter

Spring/Fall

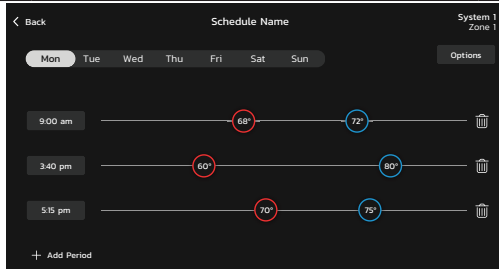
Save Energy

No Schedule

Edit Button

- Schedule IQ™** schedule determines when to operate the system based on individual "home day", "home night" and "away" time and temperature settings. Schedule is controlled by the Smart-Away™ proximity sensor (geo-fencing) in the thermostat and the Lennox Smart Thermostat App. Multiple Apps on multiple devices can control one system.

## EDIT SCHEDULES SCREEN



- Touch a schedule to edit individual schedules.
- Touch the **Back** button to return to the Schedule Screen.

Adjust individual times and temperatures for the day.

Time (Up 4 time periods per day)

- Touch each time period to change using the **set time** tool.
- Touch each time period and select **delete (trash) icon** if you want to remove a time period. You can remove all time periods except one if desired. Touch the + sign if you want to add additional periods (maximum of four).

Individual Sliders to adjust cooling, heating or Perfect Temp temperatures for each time period

Adjustable 60 to 90°F

---

Options Button

Schedule Name

Rename a schedule

- Rename a schedule with the keyboard tool (maximum 16 characters).

Day Grouping

- All Days
- Week/Weekend (Monday-Friday and Saturday-Sunday)
- Individual Days (Monday, Tuesday, etc.)

- When using **individual days** select < or > next to the day to advance to the next day.
- When using **week/weekend** select < or > next to the days to advance to the next group of days.
- Using **all days** follows the same schedule for each day.

Mode (System Mode)

- Heat/Cool
- Heat Only
- Cool Only

---

Fan

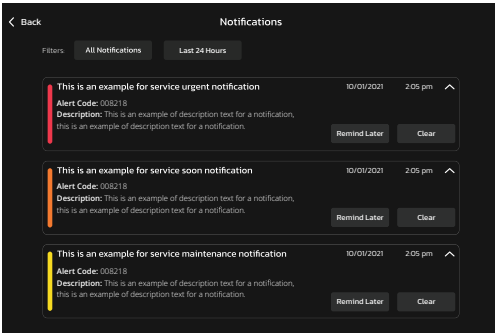
- On
- Auto
- Circulate
- Minutes per hour

---

- Slider adjusts circulating time, adjustable from 9 to 27 minutes.

# HOMEOWNER SETTINGS

## NOTIFICATIONS SCREEN



Alerts homeowner of critical and required service or maintenance issues

Critical (Red Alert) - Displays information that service is required for a major system component as soon as possible

Warnings (Orange Alert) - Displays information about system operation

Reminders (Yellow Alert) - Displays required maintenance information (filter replacement, humidifier pad replacement, UV light replacement, PureAir™ Air Purification System servicing and Maintenance)

Info (Blue Alert) - Displays information about installer access, Wi-Fi status, new devices found, software updates and additional useful information and tips to operate the system efficiently

All - Displays all notifications

Filter Notifications by a specific time

All Notifications

Last 24 Hours

Last 30 Days

Last 12 Months



Any Notifications will also be displayed over the top-right corner of the Menu Button on the Home Screen and also on the individual icons on the Menu Screen.



Reminders (Yellow Alert) may include additional information such as the Lennox model number, order number, filter size, etc. for a replacement item.



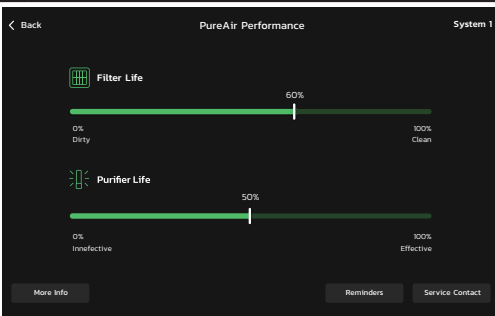
Reminders can be cleared or a "remind later" setting can be set (1 day, 1 week, 1 month, 3 months or custom).

---



Touch **custom** to access the **Set Date Tool** screen to input a custom date reminder.

## PUREAIR™ S PERFORMANCE SCREEN



Displays filter life and purifier life (UVA lamp/PCO cartridge insert) status



Touch **My Home** at the top of the Home screen to access PureAir.



Touch **PureAir icon** for details about PureAir.



Touch **Service Contract** button for installer contact information.

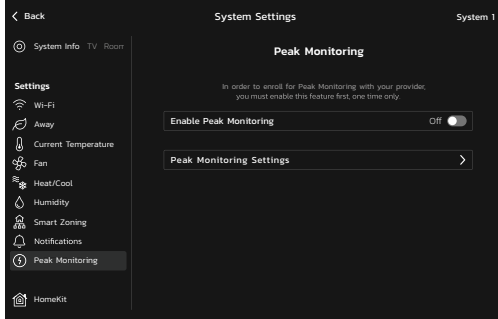


Touch **Reminders** button to view PureAir maintenance reminder settings.

# HOMEOWNER SETTINGS

## PEAK MONITORING (ENERGY SAVINGS)

### Notes



**NOTE** - For California residents only. Energy Savings feature is currently a feature requirement for the State of California

Enrolling into the energy saving program allows the homeowner's utility company to control the thermostat during peak energy events

An icon on the home page will indicate when the system is in an active energy savings event



See the **S40 User Guide** for additional information about enrolling in the Energy Savings program and thermostat settings available.

## ENERGY SAVINGS ENROLLMENT

Enrollment is a two-step process for consumers

1. Homeowner registers with their utility provider before the thermostat settings can be enabled to take advantage of the Energy Savings feature
2. Enable energy saving settings on the thermostat

---

## ENERGY SAVING SETTINGS

Peak Loading Event Active Setpoints:

- Default (heat 60°F, cool 82°F)
- Offset (default is +/- 4 °F)
- Custom Setpoints
- Peak Price Event Threshold
- Factory Reset Peak Monitoring Settings

Peak Price Event Active Setpoints:

- Default (heat 60°F, cool 82°F)
- Offset
- Custom Setpoints
- Peak Monitoring Events Filter
- Factory Reset Peak Monitoring Settings(resets all parameters to factory settings and cancels enrollment)




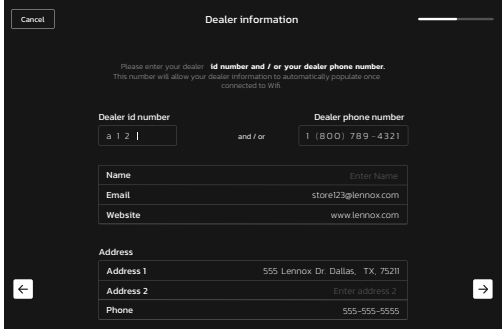





An energy saving event can be canceled when any of the following occur:

- Adjusting the temperature setpoint manually
- Selecting a schedule
- Changing the mode of operations
- Manually canceling the event from the home screen indicator

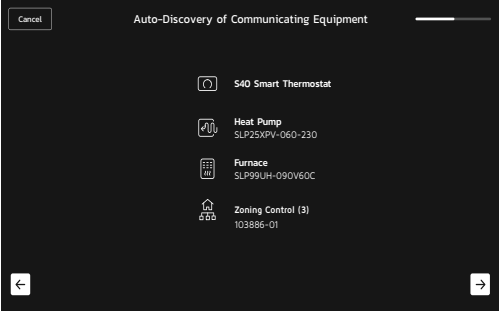
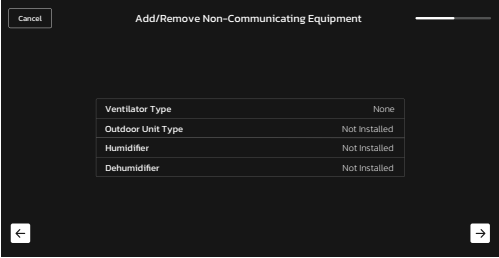


Custom Setpoints displays a slider to adjust manually.

# INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

COMMISSIONING		Notes																						
	<p>After power is applied to the thermostat for the first time, it displays the "splash" screen" and checks the system for installed communicating devices.</p> <p>During the commissioning process, alerts may be displayed to inform the installer of any information that affects the setup process.</p>	---																						
Welcome	Select language	---																						
	English, Français, Español	---																						
Choose Setup Route	Setup through the thermostat	---																						
	Setup though the Mobile App (Lennox Smart Technician App)	---																						
DEALER INFORMATION SCREEN		Notes																						
	<p>Dealer inputs their dealer number and/or phone number. Once the thermostat is connected to a Wi-Fi network the rest of the information will be automatically populated.</p>	<p> Installer can also use the keyboard tool to manually input dealer information before a wireless connection is established.</p> <p> A progress bar in the upper right of the screen shows the amount of the setup process completed.</p>																						
Dealer Information	<table border="1"> <tr> <td>Dealer ID Number</td> <td>enter id number</td> </tr> <tr> <td>Dealer Phone Number</td> <td>enter phone</td> </tr> <tr> <td>Name</td> <td>enter name</td> </tr> <tr> <td>Email</td> <td>enter email</td> </tr> <tr> <td>Website</td> <td>enter website</td> </tr> <tr> <td>Address 1</td> <td>enter address 1</td> </tr> <tr> <td>Address 2</td> <td>enter address 2</td> </tr> <tr> <td>Country/Region</td> <td>select region</td> </tr> <tr> <td>City</td> <td>enter city</td> </tr> <tr> <td>State</td> <td>select state</td> </tr> <tr> <td>Zip/Postal Code</td> <td>enter zip/postal</td> </tr> </table>	Dealer ID Number	enter id number	Dealer Phone Number	enter phone	Name	enter name	Email	enter email	Website	enter website	Address 1	enter address 1	Address 2	enter address 2	Country/Region	select region	City	enter city	State	select state	Zip/Postal Code	enter zip/postal	<p> Use the keyboard tool to manually input this information.</p>
Dealer ID Number	enter id number																							
Dealer Phone Number	enter phone																							
Name	enter name																							
Email	enter email																							
Website	enter website																							
Address 1	enter address 1																							
Address 2	enter address 2																							
Country/Region	select region																							
City	enter city																							
State	select state																							
Zip/Postal Code	enter zip/postal																							
General Settings	<table border="1"> <tr> <td>Country/Region</td> <td></td> </tr> <tr> <td>Date and Time</td> <td></td> </tr> <tr> <td>- Date</td> <td></td> </tr> <tr> <td>- Time</td> <td></td> </tr> <tr> <td>- Time Zone</td> <td></td> </tr> <tr> <td>- Daylight Savings</td> <td>On/Off</td> </tr> <tr> <td>Units</td> <td></td> </tr> <tr> <td>Temperature Unit</td> <td>Fahrenheit/Celsius</td> </tr> <tr> <td>Unit System</td> <td>Imperial/Metric</td> </tr> </table>	Country/Region		Date and Time		- Date		- Time		- Time Zone		- Daylight Savings	On/Off	Units		Temperature Unit	Fahrenheit/Celsius	Unit System	Imperial/Metric	<p> Use pop-up screens to select country/region, date, time and time zone.</p> <p>---</p> <p> Use pop-up screens to select temperature unit and unit system.</p>				
Country/Region																								
Date and Time																								
- Date																								
- Time																								
- Time Zone																								
- Daylight Savings	On/Off																							
Units																								
Temperature Unit	Fahrenheit/Celsius																							
Unit System	Imperial/Metric																							

# INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

AUTO-DISCOVERY OF COMMUNICATING EQUIPMENT SCREEN		Notes
	<p>A listing of the Communicating equipment discovered during the system set-up.</p>	<ul style="list-style-type: none"> <li>If an Equipment Interface Module (EIM) is part of the system and configured as either a furnace or air handler, the indoor unit will appear as EIM-Furnace or EIM-Air Handler. When using an EIM the outdoor unit may be either a Lennox Communicating Product or any standard non-communicating outdoor unit.</li> <li>Touch the right arrow icon to add non-communicating equipment.</li> <li>After non-communicating equipment has been added it will also appear on the screen.</li> </ul>
ADD / REMOVE EQUIPMENT SCREEN		Notes
	<p>Add non-communicating equipment to the system to be controlled by the thermostat</p>	<ul style="list-style-type: none"> <li>Outdoor Unit Type selection only appears if a communicating outdoor unit is not detected during setup.</li> </ul>
<p>Ventilator Type</p>	<p>None</p> <p>Fresh Air Damper</p> <p>1 Speed HRV</p> <p>2 Speed HRV</p> <p>1 Speed ERV</p> <p>2 Speed ERV</p>	<p>---</p>
<p>Outdoor Unit Type</p>	<p>Not Installed</p> <p>1 Stage AC Unit</p> <p>2 Stage AC Unit</p> <p>1 Stage HP Unit</p> <p>2 Stage HP Unit</p>	<ul style="list-style-type: none"> <li>Outdoor Unit Type selection only appears if a communicating outdoor unit is not detected during setup.</li> </ul>
<p>Outdoor Unit Capacity</p>	<p>18 to 60 kBtuh</p>	<p><b>36 kBtuh</b></p>
<p>Outdoor Unit 1st Stage Capacity</p>	<p>30 to 100 kBtuh</p>	<p><b>70 kBtuh</b></p>
<p>Humidifier</p>	<p>Not Installed</p> <p>Bypass (24VAC) Humidifier</p> <p>Power (120VAC) Humidifier</p> <p>Bypass and Power Humidifier</p>	<p>---</p>
<p>Dehumidifier</p>	<p>Not Installed</p> <p>Humiditrol</p> <p>Auxiliary Dehumidifier</p>	<p>---</p>
<p>Lennox Smart Zoning System</p>	<p>Name the individual zones using the keyboard tool</p>	<ul style="list-style-type: none"> <li>Touch any zone name to edit with the keyboard tool (maximum 30 characters). Common preset zone names (primary bedroom, guest bedroom, living room, dining room, etc.) are also available to use.</li> </ul>

# INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

## AIRFLOW PER ZONE SCREEN



Set blower settings for each zone

Blower Circulation Airflow (gray)

Heating Circulation Airflow (red)

Cooling Circulation Airflow (blue)

- ❓ Total Blower Circulation Airflow is shown for reference on the left side of the screen (based on unit size and settings).
- ❓ Touch the arrow next to each zone to adjust the individual airflows. Use the plus and minus buttons to adjust airflow in 5 cfm increments.

## SETUP WI-FI SCREEN

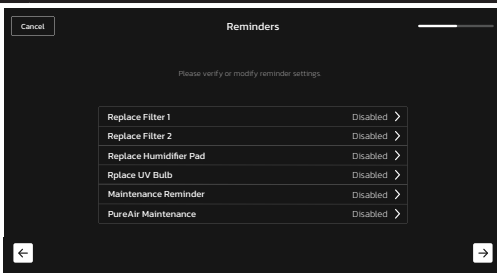


Setup Wi-Fi for the homeowner?

Yes/No

- Notes**
- ❓ Touch a particular network ID to connect to that network.
  - ❓ Touch the arrow to enter the password for the selected network. or:
  - ❓ Touch the > for additional information about a particular network (name, SSID, security, RSSI, etc.).
  - ❓ Touch the **Join the network** button to enter password for that network.

## REMINDERS SCREEN



**Setting**

**Default**

**Notes**

Set reminders for maintenance items.  
 Replace Filter 1  
 Replace Filter 2  
 Replace Humidifier Pad  
 Replace UV Bulb  
 PureAir™ Maintenance

---

Maintenance Reminder Settings

Calendar Time  
 Disabled  
 3, 6, 12, 24 Months  
 Custom date  
 Run-Time

**Disabled**

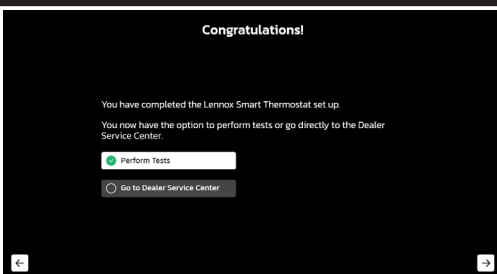
- ❓ Touch **Custom** to access the **Set Date Tool** screen to input custom date settings.

System Name

Name the system using the keyboard tool

---

## CONGRATULATIONS SCREEN



**Setting**

**Default**

**Notes**

Lennox Smart Thermostat set up is complete

Perform Tests

Go to Dealer Service Center

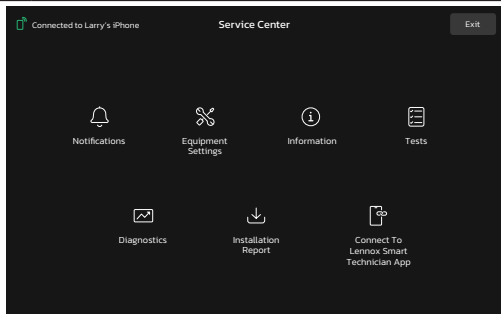
- ❓ See page 46.

- ❓ See page 33.



## INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

### DEALER SERVICE CENTER SCREEN



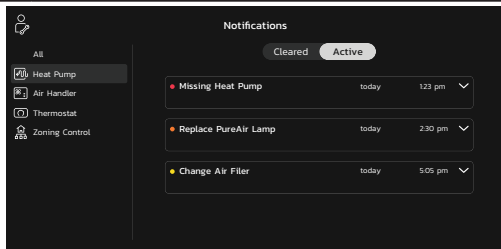
Provides access to the installer for viewing and performing various functions.

- Notifications
- Equipment Settings
- Information
- Tests
- Diagnostics
- Installation Report
- Connect to Lennox Smart Technician App



The Service Center can also be accessed from the Home Screen under the Menu Button > Settings > Advanced Settings > View Support Service Control Center.

### NOTIFICATIONS SCREEN



Provides information for active and previous notifications. When selecting either a cleared or active notification a brief description and alert code will be displayed.



Notifications are color-coded to display - Urgent (red), Service Soon (orange) and maintenance (yellow)

Notifications are categorized by the S40 Thermostat, Air Handler or Furnace, Air Conditioner or Heat Pump and Zoning Control (if installed).

To expand a notification for more details of the alert code, touch the down arrow to expand the description.

Touch the **Cleared button** to move the notification to the cleared area.


## INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

EQUIPMENT (Thermostat)		Setting	Default	Notes
About	Product Type			 Equipment specifications.
	Language Support			
	Equipment Type Name			
	Control Software Revision			
	Control Model Number			
	Control Serial Number			
	Control Hardware Revision			
	Protocol Revision Number			
	Device Product Level			
	24VAC Average Power Consumption			
	24VAC Peak Power Consumption			
	Compatible Devices List			
	Application Code memory Size			
	Microcontroller Part Number			
MAC Address				
Adjust Settings	Thermostat Name			 Use the keyboard tool to manually input this information.
	Temp Reading Calibration (-5 to 5°F)		<b>0°F</b>	
	Humidity Reading Calibration (-10 to 10% RH)		<b>0%</b>	
	Smooth Setback Recovery (Enabled/Disabled)			
EL18XC1, XC/XP21	Electric Heat Control Mode (Air Handler)	Standard		---
		Evenheat		
EL18XC1, XC/XP21	Evenheat Discharge Temperature (Air Handler)	85 to 130°F	<b>85°F</b>	---
SLP99	Gas Heat Control Mode	Staged		---
		Load Tracking Variable Capacity		
		Variable Capacity		
Staged	Number of Gas Heating Stages	1, 2, 3, 4	<b>4</b>	---
Load Track. Var. Capacity.	Modulating Gas Heating Steady State PI Gain	Less Aggressive		---
		Standard		
		More Aggressive		
Load Track. Var. Capacity.	Modulating Gas Heating Step Change PI Gain	Less Aggressive		---
		Standard		
		More Aggressive		
Load Track. Var. Capacity.	Modulating Gas Heating Cycles Per Hour	4.0 to 10.0	<b>6.0</b>	---
Dual Fuel	Minimum Gas Heating Off Time	1.5 to 10 min.	<b>1.5 min.</b>	---








## INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

EQUIPMENT (Thermostat)		Setting	Default	Notes
Two-Stage Systems	Cooling Mode	Normal		<b>Normal</b> - 2nd stage is locked in until the demand is satisfied.
		Comfort		<b>Comfort</b> - 2nd stage is energized or de-energized based on demand to maintain comfort.
Modulating Systems	Modulating Cooling Steady State PI Gain	Less Aggressive		---
		More Aggressive		
		Standard		
Modulating Cooling Step Change PI Gain	Less Aggressive		---	
	More Aggressive			
	Standard			
Modulating Cooling Cycles Per Hour	3.0 to 6.0	<b>4.0</b>		
Modulating Systems (HP)	Modulating HP Steady State PI Gain	Less Aggressive		---
		More Aggressive		
		Standard		
Modulating HP Step Change PI Gain	Less Aggressive		---	
	More Aggressive			
	Standard			
Modulating HP Heating Cycles Per Hour	3.0 to 6.0	<b>4.0</b>		
Modulating HP Electric Heating Switching Point	0.0 to 2.0	<b>1.0</b>		
Air Handler	Aux Heating Activation Threshold	0 to 10°F	<b>2.5°F</b>	---
	Electric Heating Activation Hold Time	0 to 60 min.	<b>10 min.</b>	---
DAT Offset		-5 to 5°F	<b>0°F</b>	---
DAT Proportional Gain		10 to 15°F	<b>3°F</b>	---
DAT Integral Gain		10 to 15°F	<b>3°F</b>	---
Temperature Control Mode (for Perfect Temp)		Normal, Comfort		<b>Normal</b> - Perfect Temp (single setpoint) is off. <b>Comfort</b> - Perfect Temp (single setpoint) is on.
Wall Insulation		Poor, Average, Good	<b>Good</b>	
Single Setpoint Mode		Enabled/Disabled		Single Setpoint Mode is the same as <b>Perfect Temp</b> on the User Screen (Heat & Cool). For non-zoning systems only. Allows homeowner to set only one temperature setpoint for heating and cooling.
- SSP Heating Cancel Coast Increment Slope		0.0 to 0.75°F	<b>0.25°F</b>	
- SSP Heating Cancel Coast Decrement Slope		0.25 to 2.0°F	<b>0.5°F</b>	
- SSP Cooling Cancel Counter Increment Slope		-0.75 to 0.0°F	<b>-0.25°F</b>	
- SSP Cooling Cancel Counter Decrement Slope		-2.0 to -0.25°F	<b>-0.5°F</b>	
- SSP Heating Lockout Outdoor Temp		50.0 to 80.0°F	<b>70°F</b>	
- SSP Cooling Lockout Outdoor Temp		30.0 to 60.0°F	<b>40°F</b>	
Auto Changeover – Temp Deadband		3 to 9°F	<b>3°F</b>	---
Max. Heat Setpoint		40 to 90°F	<b>90°F</b>	---
Min. Cool Setpoint		60 to 99°F	<b>60°F</b>	---
Heat Cool Stages Locked In		Enabled/Disabled		---
1st Stage Differential		0.5 to 3.0°F	<b>1.0°F</b>	---
2nd through 5th Stage Differential		0.5 to 8.0°F	<b>0.5°F</b>	---




## INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

EQUIPMENT (Thermostat)		Setting	Default	Notes
Staged Delay Timers		Enabled/Disabled		 Number of heating stages shown depends on equipment installed. Electric heat is staged at every 2 elements.
2nd through 6th Stage Delay (5 min. increments)		5 to 120 min.	<b>20 min.</b>	
<b>XP21</b>	Lock In 2nd Stage HP by Outdoor Temp	off, 40°F (4°C), 45°C (7°C), 50°F (10°C), 55°F (13°C)		---
<b>HEAT PUMP</b>	Balance Point Control	Enabled/Disabled		---
	High Balance Point	-17 to 75°F	<b>50°F</b>	---
	Low Balance Point	-20 to 72°F	<b>25°F</b>	---
	Electric Heat Stages During Defrost	0 to 5	<b>2</b>	---
Min Dehumidification Setpoint		40 to 60°F,	<b>40°F</b>	---
<b>Humiditrol</b>	Humiditrol Comfort Adjust	Maximum, Midpoint or Minimum Overcooling		---
<b>Humidifier</b>	Humidification Control Mode	Display Only, Precision, Precision Dew Point Control, Basic, Basic Dew Point Control		---
	- Dew Point Adjustment	-15 to 15°F	<b>0</b>	---
	Max. Humidification Setpoint	15 to 45% RH	<b>45%</b>	---
	Auto Changeover Humidification Deadband	5 to 10% RH	<b>5%</b>	---
Outdoor Temperature Reading Calibration		-10 to 10°F	<b>0°F</b>	---
Auto Dehumidification Overcooling Threshold		0 to 10°F	<b>4°F</b>	---
Severe Weather Protection		Enabled/Disabled		---
Freezing Alert Temperature		30 to 50°F	<b>40°F</b>	---
<b>Zoning</b>	Zoning Gas Heating DAT Cooldown target	80 to 90°F	<b>85°F</b>	---
	Zoning Anticipated Discharge Air Temperature Adjustment	0 to 120 seconds	<b>60 seconds</b>	---
	Zoning Target Supply Air Temp for Cooling	40 to 60°F	<b>45°F</b>	---
	Zoning Target Supply Air Temp for Gas/Electric Heating	100 to 130°F	<b>110°F</b>	---
	Zoning Target Supply Air Temp for HP Heating	85 to 110°F	<b>90°F</b>	---
	Zoning Supply Air Temp Limit for Cooling	35 to 45°F	<b>40°F</b>	---
	Zoning Supply Air Temp Limit for Gas/Electric Heating	140 to 160°F	<b>140°F</b>	---
<b>Humiditrol</b>	Humiditrol and Auxiliary Dehumidifier Minimum Run-Time	5 to 30 min.	<b>15 min.</b>	---
<b>Dual Fuel</b>	HP Heating Lockout Time	60 to 240 min.	<b>120 min.</b>	---
<b>Zoning</b>	Zoning Minimum Zone Run Time	90 to 600 sec.	<b>120 sec.</b>	---
	Zone 1 through 4 First Stage Differential	0.5 to 3.0°F	<b>1.0°F</b>	---

## INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

EQUIPMENT (Thermostat)	Setting	Default	Notes
Smart Alert Enable	On/Off	<b>On</b>	 Smart Alert monitors the following conditions: <ul style="list-style-type: none"> <li>- Thermostat setpoint.</li> <li>- Temperature readings.</li> <li>- If the temperature is moving away from setpoint or toward setpoint.</li> <li>- Local climate design temperatures.</li> <li>- System run times.</li> </ul> <b>NOTE - Not available with Zoning.</b>  Depending on type of system (conventional heating/cooling or heat pump system) and optional equipment not all system settings will be displayed.
Cooling Capacity Alert	On/Off	<b>On</b>	---
Ventilation Control Mode	---		 See table on page 48 for Fresh Air Damper, HRV and ERV settings.
Screen Locked (Prevents tampering with thermostat settings)	Unlocked (no security)		---
	Partially Locked (prevents tampering with the menu settings, setpoints can be adjusted)		
	Locked (prevents tampering with the thermostat)		
Display Outdoor Weather	On/Off		---
Outdoor Temperature Source	Off		---
	Internet		
	Sensor		
Display Indoor Humidity	On/Off		---
Screen Saver	On/Off	<b>Off</b>	 <b>Weather</b> displays the current weather conditions screen. <b>Power Save</b> displays a blank screen until the screen is touched or the proximity sensor is activated.
	Weather		
	Power Save		
	Logo		
Auto Brightness	On/Off		 If <b>Auto Brightness</b> is turned off a slider appears to manually adjust the brightness of the display.
Brightness Value	10 to 100%	<b>80%</b>	---
Proximity Control	On/Off		 Proximity sensor turns on the display backlight at a specific distance.
Wide Setpoint	On/Off		---
Display Pure Air	On/Off		---
Group ID	0 to 8 groups	<b>1</b>	 Group ID is used to group two or more thermostats in the same home to allow communication between them.
Reset Thermostat (button)	Reset to factory default settings		---



## INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

EQUIPMENT (Air Conditioner/Heat Pump)	Setting	Default	Notes	
About	Language Support			
	Equipment Type Name			
	Unit Model Number			
	Unit Serial Number			
	Unit Nominal Capacity			
	Number of Heating Stages (Heat Pump)			
	Number of Cooling Stages			
	Heating Capacity by Stage (Heat Pump)			
	Cooling Capacity by Stage			
	Control Software Revision			
	Control Model Number			
	Control Serial Number			
	Control Hardware Revision			
	Outdoor Air Temp Sensor			 Equipment specifications.
	Operating Temperature Limits			
	Protocol Revision Number			
	Device Product Level			
	24VAC Average Power Consumption			
	24VAC Peak Power Consumption			
	Line Voltage Average Power Consumption			
	Line Voltage Peak Power Consumption			
	Outdoor Fan RPM Profile (single stage)			
	OD Inverter Model Number (modulating)			
OD Inverter FW Revision (modulating)				
Unit Code				
Compatible Devices List				
Application Code Memory Size				
Microcontroller Part Number				
Adjust Settings	Air Conditioner/Heat Pump Name		 Use the keyboard tool to manually input this information.	
	Compressor Short Cycle Delay (60 to 300 sec)	<b>300 sec.</b>	---	
	Defrost Termination Temp (Heat Pump only) (50 to 100°F)	<b>50°F</b>	---	
	Automatic Max Defrost (Heat Pump only) (On/Off)	<b>Off</b>	---	
	Max Defrost by Weather (Heat Pump only) (On/Off)	<b>Off</b>	 Max Defrost by Weather uses the default Internet weather source to determine when a defrost cycle is required..	
Compressor Shift Delay (Heat Pump only)	On/Off	<b>On</b>	---	

## INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)



EQUIPMENT (Air Conditioner/Heat Pump)				
	Setting	Default	Notes	
<b>Modulating Systems</b>	High Normal Cooling Airflow	450 to 2000 cfm	<b>1800 cfm</b>	---
	Low Normal Cooling Airflow	450 to 2000 cfm	<b>900 cfm</b>	---
	High Normal HP Heating Airflow	450 to 2000 cfm	<b>1806 cfm</b>	---
	Low Normal HP Heating Airflow	450 to 2000 cfm	<b>1150 cfm</b>	---
	Dehum Airflow Adjustment Adder	0 to 30°F	<b>0°F</b>	---
<b>Two-Stage (HP)</b>	Fan Cycling	On/Off	<b>Off</b>	---
Reset Air Conditioner / Heat Pump (button)		Reset to factory default settings		---

## INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)





EQUIPMENT (Furnace)		Setting	Default	Notes
About	Unit Code			 Equipment specifications.
	Language Support			
	Equipment Type Name			
	Unit Model Number			
	Unit Serial Number			
	Unit Nominal Capacity			
	Number of Heating Stages			
	Heating Capacity by Stage			
	Indoor Blower CFM Range			
	Control Software Revision			
	Control Model Number			
	Control Serial Number			
	Control Hardware Revision			
	Discharge Air Temp Sensor			
	Outdoor Air Temp Sensor			
	Protocol Revision Number			
	Device Product Level			
	Factory Installed Transformer			
	24VAC Average Power Consumption			
	24VAC Peak Power Consumption			
Line Voltage Average Power Consumption				
Line Voltage Peak Power Consumption				
Compatible Devices List				
Application Code Memory Size				
Microcontroller Part Number				
Adjust Settings		Furnace Name		 Use the keyboard tool to manually input this information.
SLP99V	Low Cooling Airflow	450 to 2000 cfm	<b>1400 cfm</b>	---
	High Cooling Airflow	450 to 2000 cfm	<b>2000 cfm</b>	---
	Airflow Profile - Cooling	A - On (50% for 30 sec., 82% for 7.5 Minutes; Off (50% for 30 sec. delay) B - On (82% for 7.5 Minutes); Off (No delays) C - On (100%) (No delays); OFF (60 sec. delay) D - On (100%) (No delays)	<b>A</b>	---
	Continuous Indoor Blower Airflow	450 to 2000 cfm	<b>760 cfm</b>	---
Dehumidification Airflow %		60 to 80%	<b>70%</b>	---






## INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

EQUIPMENT (Furnace)		Setting	Default	Notes
Delay Settings		Heating Indoor Blower OFF (60 to 180 sec., default is dependent on DIP switch setting in non-communicating furnace)		---
		Heating Indoor Blower ON (15 to 45 sec., default is 30 sec.)		
SLP99V	Cooling Indoor Blower OFF	0 to 30 sec.	<b>0 sec.</b>	---
	Cooling Indoor Blower ON	0 to 10 sec.	<b>2 sec.</b>	---
Heating Airflow Control Type		Fixed CFM		---
		Fixed DAT		
With Fixed CFM:		---		 All furnace default airflow settings are dependent on furnace capacity.
- Low Heating Airflow		500 to 700 cfm	<b>492 cfm</b>	
- High Heating Airflow		1150 to 1575 cfm	<b>1403 cfm</b>	
With Discharge Air Temperature (DAT):		---		 Selections available if Discharge Air Temperature Sensor is installed.
- Low Heating Discharge Air Temperature		110 to 140°F	<b>125°F</b>	
- High Heating Discharge Air Temperature		120 to 150°F	<b>135°F</b>	
Reset Furnace (button)		Reset to factory default settings		---


## INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

EQUIPMENT (Air Handler)		Setting	Default	Notes
About	Unit Code			 Equipment specifications.
	Language Support			
	Equipment Type Name			
	Unit Model Number			
	Unit Serial Number			
	Unit Nominal Capacity			
	Number of Heating Stages			
	Heating Capacity by Stage			
	Indoor Blower CFM Range			
	Control Software Revision			
	Control Model Number			
	Control Serial Number			
	Control Hardware Revision			
	Discharge Air Temp Sensor			
	Outdoor Air Temp Sensor			
	Protocol Revision Number			
	Device Product Level			
	Factory Installed Transformer			
	24VAC Average Power Consumption			
	24VAC Peak Power Consumption			
Line Voltage Average Power Consumption				
Line Voltage Peak Power Consumption				
Compatible Devices List				
Application Code Memory Size				
Microcontroller Part Number				
Adjust Settings		Air Handler Name		 Use the keyboard tool to manually input this information.
Electric Heating Airflow		1560 to 2150 cfm	<b>2005 cfm</b>	---
Two-Stage (AC/HP)	Low Cooling Airflow	450 to 2150 cfm	<b>1260 cfm</b>	---
	High Cooling Airflow	450 to 2150 cfm	<b>2000 cfm</b>	---
	Airflow Profile - Cooling	1 - No Delays 2 - (Cooling) - On (No delays); Off (45 sec. delay) 2 - (Heat Pump) On (82% for 7.5 min.); Off (No delays) 3 - On (50% for 30 sec., 82% for 7.5 min.); Off (50% for 30 sec.)	<b>1</b>	---
Two-Stage (HP)	Low HP Airflow	450 to 600 cfm	<b>450 cfm</b>	 All airflow parameters are determined by settings in communicating equipment and are dependent on the capacity of the unit.
	High HP Airflow	800 to 1100 cfm	<b>975 cfm</b>	
Continuous Indoor Blower Airflow		450 to 2150 cfm	<b>800 cfm</b>	
Humidification Airflow (Humidifier)		250 to 1150 cfm	<b>450 cfm</b>	
Dehumidification Airflow % (Dehumidifier)		60 to 80%	<b>70%</b>	 Dehumidification Airflow is 60 to 80% reduction of the High Cooling Airflow parameter.



## INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

EQUIPMENT (Air Handler)	Setting	Default	Notes
Heating Indoor Blower OFF Delay	0 to 10 sec.	<b>10 sec.</b>	
Heating Indoor Blower ON Delay	0 to 5 sec.	<b>0 sec.</b>	
Cooling Indoor Blower OFF Delay	0 to 30 sec.	<b>0 sec.</b>	
Cooling Indoor Blower ON Delay	0 to 10 sec.	<b>2 sec.</b>	
HP Indoor Blower OFF Delay	0 to 60 sec.	<b>45 sec.</b>	
HP Indoor Blower ON Delay	0 to 30 sec.	<b>0 sec.</b>	
Reset Air Handler	Reset to factory default settings		
SENSORS			Notes
Lennox Smart Room Sensor	Sensor Name		 Use the keyboard tool to manually input this information.
	Device Type		
	Battery (strength)		
	RSSI Signal Strength		---
	Model Number		
	Serial Number		
	Firmware Version		
Lennox Smart Air Quality Monitor	Sensor Name		 Use the keyboard tool to manually input this information.
	Device Type		
	Level of Indoor Cleanliness	High	
		Medium	
		Basic	
	RSSI Signal Strength		---
	Model Number		
Serial Number			
Lennox Wireless Extender	Extender Name		 Use the keyboard tool to manually input this information.
	Device Type		
	RSSI Signal Strength		
	Model Number		---
	Serial Number		
	Firmware Version		

## INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

EQUIPMENT (Zoning Control)	Setting	Default	Notes
About	Unit Code		 Equipment specifications.
	Language Support		
	Equipment Type Name		
	Control Software Revision		
	Control Model Number		
	Control Serial Number		
	Control Hardware Revision		
	Protocol Revision Number		
	Device Product Level		
	24VAC Average Power Consumption		
	24VAC Peak Power Consumption		
	Compatible Devices List		
	Application Code Memory Size		
	Microcontroller Part Number		
	Adjust Settings	Equipment Name	
Zone 1 Temperature Reading Calibration	-5 to 5°F	<b>0°F</b>	---
Zone 2 Temperature Reading Calibration	-5 to 5°F	<b>0°F</b>	
Zone 3 Temperature Reading Calibration	-5 to 5°F	<b>0°F</b>	
Zone 4 Temperature Reading Calibration	-5 to 5°F	<b>0°F</b>	
Reset Zoning Control (button)	Reset to factory default settings		---

## INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

EQUIPMENT (PureAir S)	Setting	Default	Notes
About	Control Model Number		 Equipment specifications.
	Control Serial Number		
	Control Hardware Revision		
	Control Software Revision		
	Protocol Revision Number		
	Device Product Level		
	Language Support		
	Equipment Type Name		
	24VAC Average Power Consumption		
	24VAC Peak Power Consumption		
	Line Voltage Average Power Consumption		
	Line Voltage Peak Power Consumption		
	Compatible Devices List		
	Application Code Memory Size		
	Microcontroller Part Number		
Dirty Filter Detection and UV Life Detection	On/Off	<b>On</b>	---
Max Air Filtered Between Tests	50 to 500%	<b>100%</b>	---
UV Lamp Operation Detection	On/Off	<b>On</b>	---
Filter Life	0 to 100%		 Displays PureAir component life and replacement dates for PureAir components. 100% = New
Last Replacement Date for Filter	Date		
Purifier Life	0 to 100%		
Last Replacement Date for Purifier	Date		
Reset Purifier Life (button)	Reset to 100%		---
Reset Filter Life (button)	Reset to 100%		---
Reset PureAir S Controller Board (button)	Reset to factory default settings		---

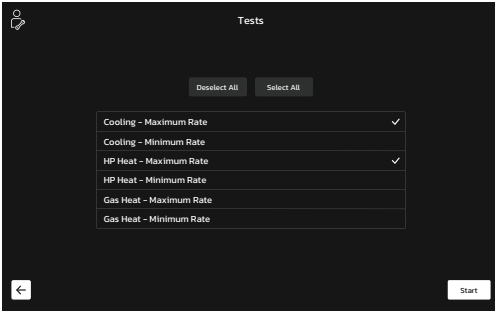
# INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

## INFORMATION SCREEN

Dealer Information Screen

See page 30.

## TESTS SCREEN



Allows the installer to test any Lennox® Communicating products in the system for a wide variety of conditions.

Automated or Manual Tests can be run.

- ⓘ Automated Tests check all communicating equipment parameters that are available from sensors in the equipment.
- ⓘ Manual Tests check all relays, outdoor and discharge air sensors, blower amp draw and air duct static pressure

Airflow Per Zone (if Smart Zoning is installed)

See the Airflow Per Zone screen on page 32.

- ⓘ If Lennox Smart Zoning System is installed Airflow Per Zone setting screen is displayed prior to testing. Touch the arrow on the lower-right to continue.

Select Test

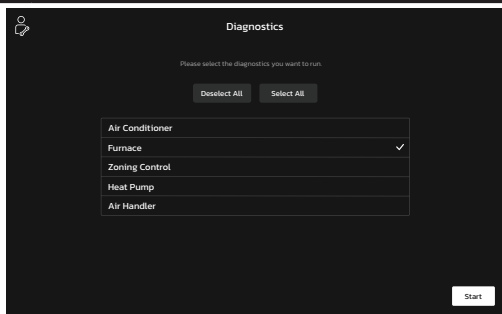
Deselect All

Select All

- ⓘ Touch each test parameter to select or deselect before running. A checkmark appears if selected.
- ⓘ Touch **Start button** to start testing. Touch **Skip button** to move to the next test in the list (automated testing only). Touch **Cancel button** to cancel all tests. Touch **Done button** to return to the main Tests screen.
- ⓘ Individual equipment test results are displayed on the right as each test is completed.
- ⓘ A progress bar in the upper right of the screen displays the test number that is running and the percentage of testing.

# INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

## DIAGNOSTICS SCREEN



Allows the installer to test any Lennox® Communicating products in the system for a wide variety of conditions.

Tests all relays, outdoor and discharge air sensors.

Select Diagnostics

Deselect All

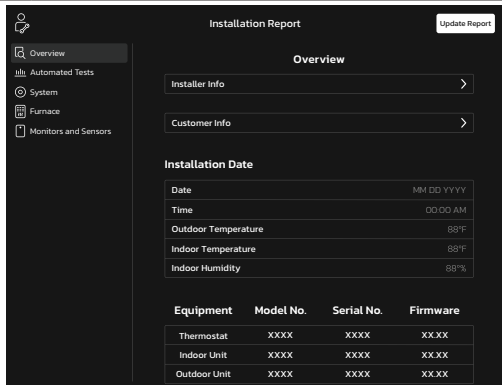
Touch each unit to select or deselect before running. A checkmark appears if selected.

Touch **Start button** to start testing. Touch **Stop button** to cancel all tests.

Select All

Individual equipment test results are displayed on the right as each test is completed.

## INSTALLATION REPORT SCREEN



Displays Installer and Customer information along with various parameters and settings for the system, outdoor equipment and indoor equipment at the time of installation.

Installation report is based on various settings that were configured in the Equipment screens previously.

Only certain parameters are displayed depending on the type of system installed (air conditioner, heat pump, dual-fuel).

Dealer Portal (Web only) feature - Dealer can generate a PDF file of the report to email to a homeowner.

Touch the different buttons on the left side of the screen to view the individual information screens.

## FRESH AIR INSTALLER SETTINGS

**NOTE - EQUIPMENT INTERFACE MODULE (EIM) IS REQUIRED FOR HRV/ERV INTEGRATION**

FRESH AIR DAMPER / HRV / ERV	Ventilation Control Mode	Fresh Air Damper	1 Stage HRV	2 Stage HRV	1 Stage ERV	2 Stage ERV
	<b>Timed</b>					
	Ventilation Minutes Per Hour (0 to 60 min., default is 20 min.)	X	X	X	X	X
	Ventilation Rate (20 to 500 cfm, default is 130 cfm)	---	X	---	X	---
	Ventilation Rate for Low Speed (10 to 200 cfm, default is 50 cfm)	---	---	X	---	X
	Ventilation Rate for High Speed (20 to 500 cfm, default is 130 cfm)	---	---	X	---	X
	Ventilation High Outdoor Temperature Limit (60 to 115°F, default is 100°F)	X	X	X	X	X
	Ventilation Low Outdoor Temperature Limit (-20 to 55°F, default is 0°F)	X	X	X	X	X
	Ventilation High Outdoor Dew Point Limit (45 to 80°F, default is 55°F)	X	X	X	X	X
<b>ASHRAE (62.2)</b>						
	Ventilation Rate (20 to 500 cfm, default is 130 cfm)	---	X	---	X	---
	Ventilation Rate for Low Speed (10 to 200 cfm, default is 50 cfm)	---	---	X	---	X
	Ventilation Rate for High Speed (20 to 500 cfm, default is 130 cfm)	---	---	X	---	X
	ASHRAE Compliance Check	NO	YES	YES	YES	YES
	ASHRAE Infiltration Credit (0 to 200 cfm, default is 0 cfm)	X	X	X	X	X
	ASHRAE House Floor Area Serviced by this Ventilator	X	X	X	X	X
	ASHRAE Number of Bedrooms	X	X	X	X	X
<b>Ventilation Outdoor Condition Override - Enabled</b>						
	Ventilation High Outdoor Temperature Limit (60 to 115°F, default is 100°F)	X	X	X	X	X
	Ventilation Low Outdoor Temperature Limit (-20 to 55°F, default is 0°F)	X	X	X	X	X
	Ventilation High Outdoor Dew Point Limit (45 to 80°F, default is 55°F)	X	X	X	X	X





## REVISIONS

Sections	Description of Change
Remote Access (Homeowner/Installer)	New feature for Lennox Smart Technician App - Equipment Configuration Profile.
Support Screen	Named changed to <b>Dealer</b> Support Screen. Order and features changed.



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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.

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