

S40**Smart Thermostat****Residential Communicating Control System****RESIDENTIAL
PRODUCT SPECIFICATIONS (EHB)**

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, see page 5
- Conventional HVAC systems (not Lennox Communicating) can be controlled by the S40 Smart thermostat with the addition of the optional Equipment Interface Module (EIM), see page 5
- 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-Tap 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 Tech 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 with Amazon Alexa®, Google Assistant™, Control4®, Building36® Matter Smart Home Integration and IFTTT

- See page 8 for additional information

**Lennox Home 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® Basic Limited Warranty at www.Lennox.com for additional 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

RSBus



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 Furnace
SLP99V
(Variable Capacity Heating, Variable Speed Blower),
SL297NV,
SL280V or EL297V
(Two-Stage Heating, Variable Speed Blower)

Lennox® Communicating Air Conditioner
SL25KCV (Variable Capacity)
EL18KCV / EL22KCV
(Variable Capacity)



Heat Pump
SL22KLV (Variable Capacity)
EL21KLV
(Variable Capacity)



Lennox® Communicating Air Handler
CBK48MVT
(Variable Speed Blower)

Optional PureAir™ S Air Purification System
PCO3S

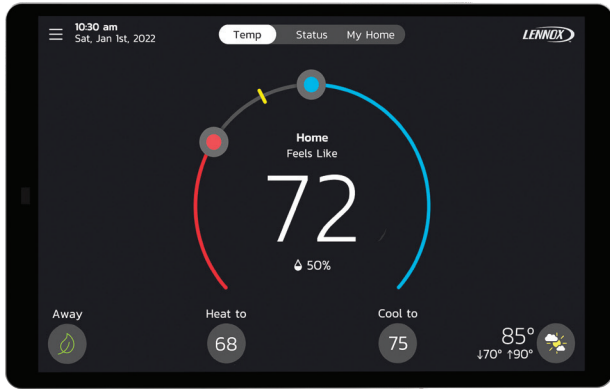


¹ Healthy Climate® HRV (Heat Recovery Ventilator) or ERV (Energy Recovery Ventilator)
¹ EIM is required for HRV/ERV Integration (not part of the RSBus)




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 Home 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_{2.5}), carbon dioxide (CO₂) 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

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

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

SYSTEM COMPONENT TYPES

System Type	Thermostat	¹ Outdoor Unit Type (Lennox Communicating or Non-Communicating)	¹ Indoor Unit Type (Lennox Communicating)	² Indoor Unit Type (Non-Communicating) Equipment Interface Module (EIM) Required
Air Conditioner	S40	Either type may be used	EL297V, SL280V, SL280NV, SL297NV or SLP99V Furnace	Most Furnaces
	S40	Either type may be used	CBK48MVT Air Handler	Most Air Handlers
Heat Pump	S40	Either type may be used	EL297V, SL280V, SL280NV, SL297NV or SLP99V Furnace	Most Furnaces
	S40	Either type may be used	CBK48MVT Air Handler	Most Air Handlers
Heat Pump (Dual-Fuel)	S40	Non-Communicating	EL297V, SL280V, SL280NV, SL297NV or SLP99V Furnace	Equipment Interface Module (EIM) Required
	S40	Non-Communicating	CBK48MVT Air Handler	Equipment Interface Module (EIM) Required

¹ 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).

² 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



Lennox® S40 Smart Thermostat



Lennox® Smart Room Sensor



Lennox® Wireless Extender



Lennox® Smart Air Quality Monitor



Equipment Interface Module (EIM)

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.	22V24
Lennox® Smart Room Sensor Dimensions (H x W x D): 4 x 5-1/2 x 3 in.	22V25
Lennox® Wireless Extender Dimensions (H x W x D): 4 x 5-1/2 x 2-1/2 in.	22V26
Lennox® Smart Air Quality Monitor - Dimensions (H x W x D) 3-5/8 x 4-3/8 x 1-3/8 in.	21P02
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.	22X18
¹ Optional Outdoor Air Temperature Sensor	X2658
² Discharge Air Temperature Sensor	88K38

¹ 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.

² 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® EL297V Gas Furnaces

Dave Lennox *Signature*® Collection SL25KCV Variable Capacity Air Conditioners

- ENERGY STAR® qualified

- Up to 26.0 SEER2 cooling efficiency
- Lennox® Communicating Control
- Precise Comfort® Technology
- SilentComfort™ Technology
- Quiet operation, as low as 56 dBA
- Quantum™ Coil
- R-454B refrigerant
- Dependable and efficient variable capacity scroll compressor
- SmartHinge™ louvered coil protection.
- Also available - Elite® EL22KCV and EL18KCV Variable Capacity



Dave Lennox *Signature*® Collection SL22KLV Variable Capacity Heat Pumps

- ENERGY STAR® qualified



- Up to 23.0 SEER2 cooling and 10.3 HSPF2 heating efficiency
- Lennox® Communicating Control
- Precise Comfort® Technology
- SilentComfort™ Technology
- Quiet operation, as low as 55 dBA
- R-454B refrigerant
- Dependable and efficient variable capacity scroll compressor
- SmartHinge™ louvered coil protection

- Also available - Elite® EL21KLV Variable Capacity

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®.

Dave Lennox *Signature*® Collection CBK48MVT Variable-Speed Air Handlers



- 4-way multi-position design
- Lennox® Communicating Control
- Variable speed blower motor
- Quantum™ Coil
- R-454B 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.

MOBILE APPS (HOMEOWNER/INSTALLER)

LENNOX HOME (Homeowner)



The free Lennox Home App is available for use on smartphones. Control cooling/heating temperatures, fan operation, set programs/schedules and set Away mode for multiple locations. Commission Smart Room Sensors, Wireless Extender and IAQ Monitor.



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 TECH (Installer)



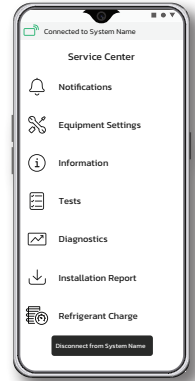
Allows the installer to commission the system and remotely turn the system on and off during setup or service call from a smartphone.

Alerts and Notifications sent to Dealer to notify when servicing or maintenance is required.

Share advanced diagnostics with the Dealer to aid in servicing and troubleshooting.

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

- 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 M40 Smart Thermostat is an Amazon® Alexa-enabled, smart-home-compatible thermostat.

Allows the homeowner to tell Alexa to control system mode and heating/cooling setpoints.

Works in conjunction with the Amazon Alexa app (click icon):



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® M40 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® Thermostats, the customer must contact their [Control4](#) dealer directly to download and install the necessary driver for their operating system.

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Google Assistant

Control basic functions of the M40 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 the thermostat is added to the 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 [Lennox® Support Website for Google Assistant Integration](#).

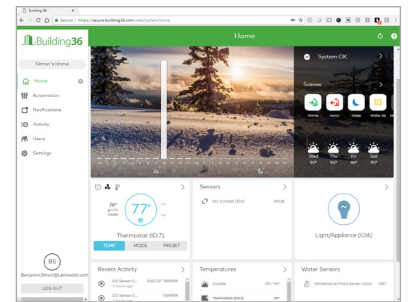


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Building36® Practical Home Automation

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® M40 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)



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

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HOME AUTOMATION

Matter Smart Home Automation

- Matter is an open standard for smart home technology that lets your device work with any Matter-certified ecosystem using a single protocol
- Matter comes from the Connectivity Standards Alliance, an organization of hundreds of companies creating products for the smart home
- Works with thousands of smart devices
- Enabled with Matter, the M40 thermostat will work with other smart devices built on this industry-unifying technology, including voice-enabled assistants, straight out of the box
- Smart devices enabled with Matter work together seamlessly
 - Simplicity - Simplifying connected experiences
 - Interoperability - Providing greater compatibility and easier connections
 - Reliability - Enabling reliable connections
 - Security - Maintaining secure connections



For additional information please visit <https://matter-smarthome.de/en/>

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IFTTT

IFTTT, an acronym for If This Then That, is a free service that automates connectivity between apps and services, enabling users to utilize “recipes” that will coordinate small tasks between Internet and web services.

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

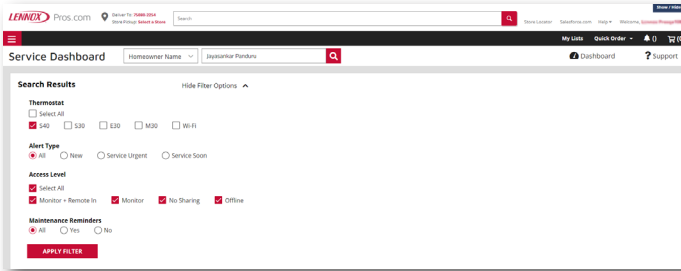
For additional information please visit the [Support Website for IFTTT Integration](#).



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

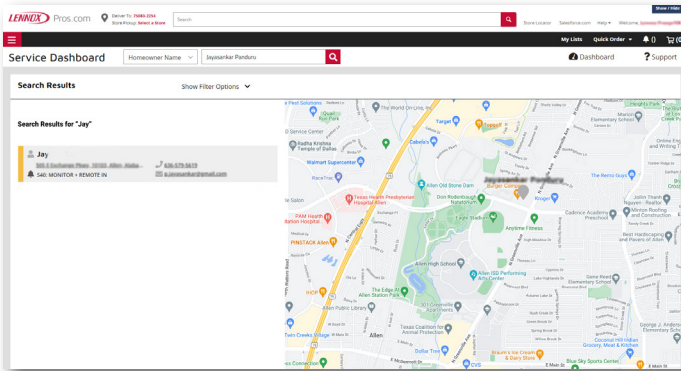
Service Dashboard Search Screen



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

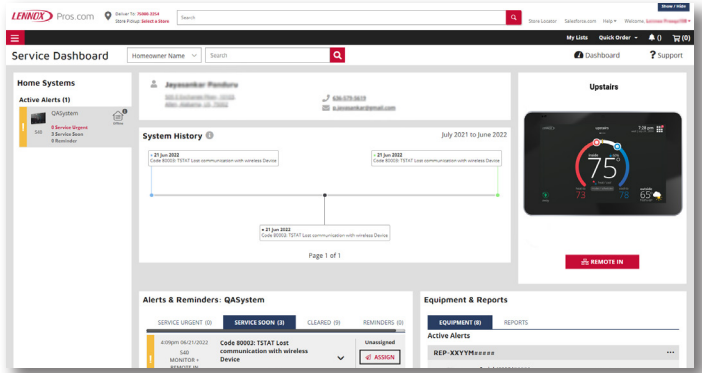
Map

- 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 Icon displays a graphical view of the system performance, see page 11

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

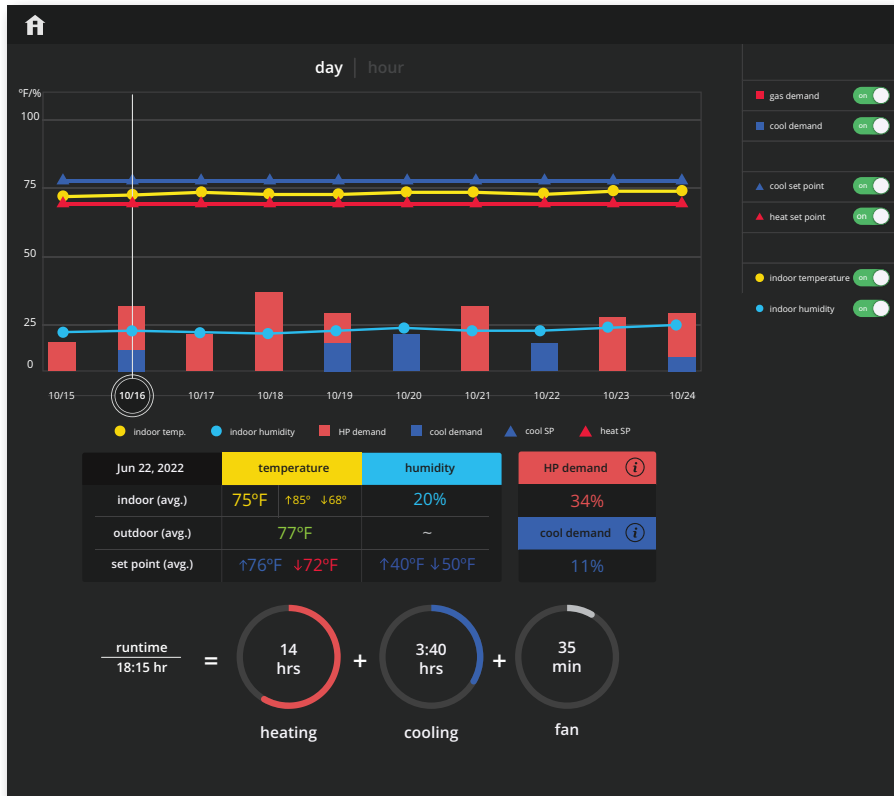
Remote In Icon

- 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.

Icon 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](#) and click on **Service Dashboard**.



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
- 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 **i** Icon 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

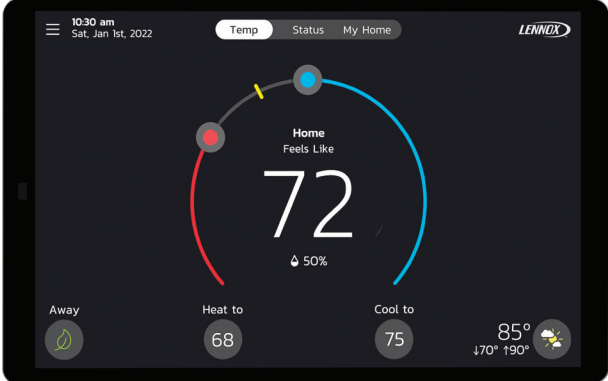


Hide/Show Pane on right allows user to hide or show different parameters on display.

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
	<ul style="list-style-type: none"> Tap blank screen to turn on the backlight. If proximity sensor is on (approximately 12 in. range) display will turn on automatically. If system is Off, the Power Icon is displayed below the temperature/humidity display. Tap to set the Mode and start the system.
<h3>Temperature Settings</h3>	
<p>Large display of current inside temperature (°F or °C)</p>	<ul style="list-style-type: none"> Tapping the heat or cool setpoint indicators on the round temperature band, or tapping the Heat-To or Cool-To Icons displays the heat or cool menu screens (see page 15).
<p>Heating and Cooling Setpoint Indicators on the round temperature band</p>	
<p>Current cooling setpoint temperature Icon (Cool-To)</p>	<ul style="list-style-type: none"> Both heating and cooling setpoint indicators on the round temperature band and the Heat-To and Cool-To Icons are displayed if System is set to Heat/Cool mode or if an active schedule is set to Heat/Cool mode.
<p>Current heating setpoint temperature Icon (Heat-To)</p>	
<h3>Current Outdoor Temperature and Weather Forecast</h3>	
<p>Displays current outdoor temperature in °F or °C and the current weather forecast</p>	<ul style="list-style-type: none"> 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. Tap to display Weather Forecast screen (see page 16).
<h3>Time and Date Display</h3>	
<p>Displays current date and time</p>	<p>---</p>
<h3>Humidity Display</h3>	
<p>Displays current inside relative humidity below current indoor temperature</p>	<p>---</p>
<p>Menu Icon </p>	<ul style="list-style-type: none"> Tap to display Menu screen (see page 14). Any Notifications will be displayed over the top-right corner of the Menu Icon.
<p>Away Icon </p>	<ul style="list-style-type: none"> Tap to enable Away mode (see page 16).
<h3>Temp Icon</h3>	
<p>Returns to the Home Screen. Displays current temperature screen for the current system where the thermostat and sensors are located</p>	<ul style="list-style-type: none"> Tap the Temp Icon when on the Status or Home screen to return to the main screen.
<h3>Status Icon</h3>	
<p>Displays current system operating status screen for the current system/area where the thermostat and sensors are located</p>	<ul style="list-style-type: none"> See page 16.
<h3>My Home Icon</h3>	
<p>Displays status screen for single and multiple home systems where the thermostat and sensors are located</p>	<ul style="list-style-type: none"> See page 13.

HOMEOWNER SETTINGS

HOME SCREEN (Thermostat ON)

System Status Icons (right side of home screen)

Schedule hold until next period

Coasting to Perfect Temp.

Coasting to Perfect Temp.

Ventilating until 3:30 pm







Service Urgent

Peak Monitoring 1:00 pm - 5:00 pm

Load Shedding wait time 45min.

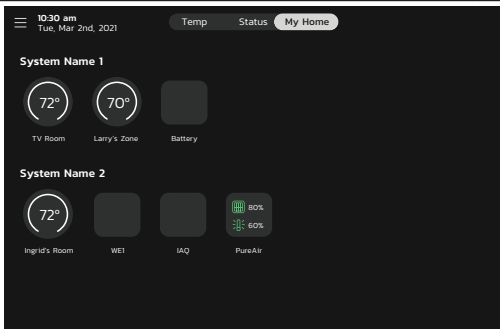
(examples)




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 14).
-  **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. Tap **Cancel** to stop ventilation operation. (Also see page 22)
-  **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 30).
-  PureAir status is only displayed if the optional PureAir™ S Air Purification System is part of the system. Tap the status indicator to display the PureAir S Performance screen (see page 29).

MY HOME SCREEN

Notes

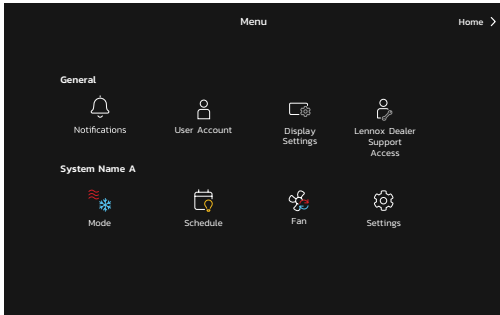



-  Displays current conditions for thermostat, Smart Room Sensors, Wireless Extender and Smart Air Quality Monitor (if equipped)
Also displays Lennox Smart Zoning System and PureAir® filter and purifier life (if equipped).
-  A Notification symbol will be displayed over the top-right corner of the My Home Icon (if required).
-  Tap an Icon to view the **Temp** screen for that particular zone, sensor or PureAir status (if equipped). (Also see page 24).

HOMEOWNER SETTINGS

MENU SCREEN

Notes



- Tap the **Menu Icon**  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

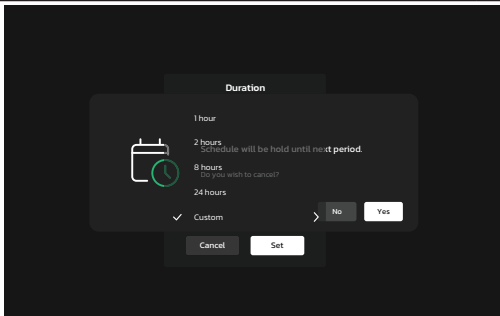
Notifications	See page 29
User Account	See page 27
Display Settings	See page 26
Lennox Dealer Support Access	See page 25


System Name

Mode	See page 14
Schedule	See page 28
Fan	See page 15
Settings	See page 17

SCHEDULE HOLD SCREEN

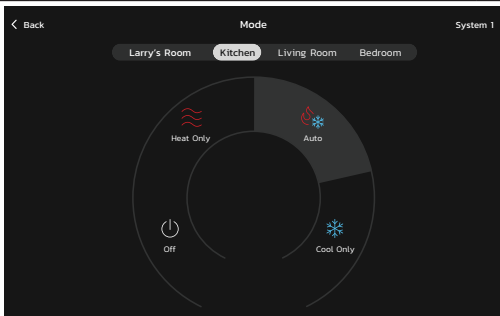
Notes




- Tap the **Menu Icon**  on the home screen to display the Schedule Icon. Tap the **Schedule** Icon 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 15). 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. Tapping the **Schedule Hold Status Icon** on Home Screen cancels the held setting.

MODE SCREEN

Notes



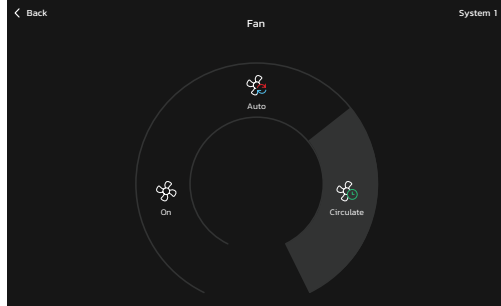
- Tap the **Menu Icon**  on the home screen to display the Mode Icon. Tap the **Mode** Icon to display the screen.
- Tap the different home areas (if available) to set the modes for different spaces in the home
- Tap **back** Icon to return to the Home Screen.

Select System Mode


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

HOMEOWNER SETTINGS

FAN SELECT SCREEN



Notes

- Tap the **Menu** Icon  on the home screen to display Fan Icon. Tap the **Fan** Icon to display the screen.
- Tap the **Back** Icon to return to the Home Screen.

Select Fan Mode

On
Auto
Circulate

- Tap each Icon to set the fan operation.

HEAT MENU SCREEN



Notes

- On the Home Screen, tapping the heat setpoint indicators on the round temperature band, or tapping the **Heat-to** Icon displays the Heat Menu screen.
- Tap and move the red heat setpoint indicator on the round temperature band, or tap the **plus** or **minus** Icons to change the heating setpoint in one degree increments. Adjustable 60 to 90°F.
- During a scheduled time period, tapping either the setpoint indicator on the temperature band or the heat-to Icon will initiate a temporary override (schedule hold) (see page 14).

Heating setpoint display

Heating Setpoint Indicator on the round temperature band

Plus (+) and Minus (-) Icons

COOL MENU SCREEN



Notes

- On the Home Screen, tapping the cool setpoint indicators on the round temperature band, or tapping the **Cool-to** Icon displays the Cool Menu screen.
- Tap and move the blue cool setpoint indicator on the round temperature band, or tap the **plus** or **minus** Icons to change the cooling setpoint in one degree increments. Adjustable (60 to 90°F).
- During a scheduled time period, tapping either the setpoint indicator on the temperature band or the cool-to Icon will initiate a temporary override (schedule hold) (see page 14).

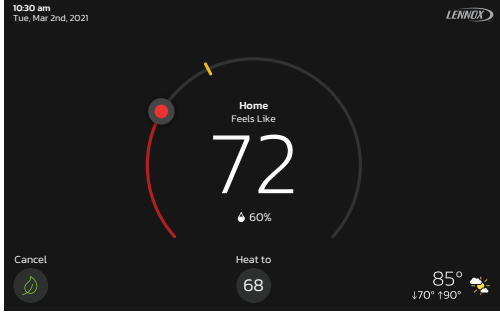
Cooling setpoint display

Cooling Setpoint Indicator on the round temperature band

Plus (+) and Minus (-) Icons


HOMEOWNER SETTINGS

AWAY SCREEN



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

Notes

- Tap the **Away** Icon  on the home screen to enable Away Mode. Also see page 17 for Away Mode settings.
- Tap the **Cancel** Icon on the home screen to end Away Mode and return to current system operation.
- Away Mode affects all zones in the system.

WEATHER FORECAST SCREEN



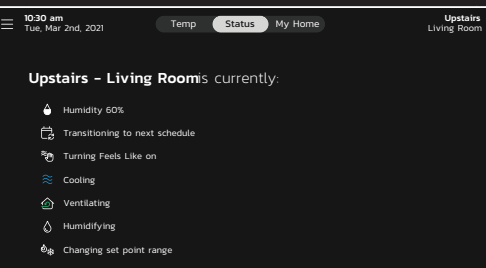
Current conditions (temperature, high-low temperature forecast for current day, precipitation percentage, wind and relative humidity)
Hourly forecast
7-Day forecast
Pollen conditions (tree, weed, grass, mold)
UV Index
Air Quality

Notes

- Wi-Fi must be enabled to access weather forecast screen.
- Weather information is provided by [Accuweather](https://www.accuweather.com). Configured in the Display settings (see page 26).

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

STATUS SCREEN



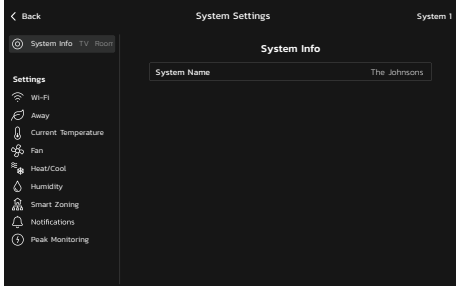
Displays current system operating status screen for the current system/area where the thermostat and sensors are located

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.

HOMEOWNER SETTINGS

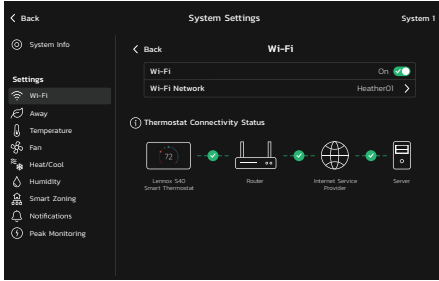
SYSTEM SETTINGS SCREEN Notes



- Tap the **Menu Icon** on the home screen to display the Settings Icon. Tap the **Settings** Icon to display the System Settings screen.
- Tap **System Name** to rename the system using the keyboard tool.
- Tap a parameter on the left side of the screen to display that particular screen.
- Tap the **back** Icon to return to the Home Screen.

Access to all user settings	Wi-Fi	See page 17
	Away	See page 16
	Current Temperature	See page 18
	Fan (Allergen Defender)	See page 18
	Heat/Cool	See page 19
	Humidity	See page 20
	Smart Zoning (if installed)	See page 21
	Notifications	See page 21
	Peak Monitoring	See page 30

WI-FI SCREEN Notes



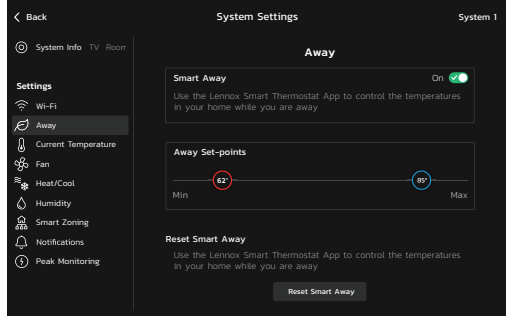
- Tap **Wi-Fi Network** to see a list of available networks or to add a network connection not shown (other). Also displays network status (secured/unsecured), strength.
- Tap the **i** Icon for additional information about a particular network (name, SSID, security, RSSI, etc.).
- Tap a particular network ID to connect to that network. Enter password to connect.
- A red "X" means that there is an issue with a connection point that must be resolved.

A graphical representation of the home network showing the connection status from the Thermostat to the Internet to the Lennox server.

Wi-Fi Icon (on/off)

Wi-Fi Network

AWAY SETTINGS SCREEN Notes



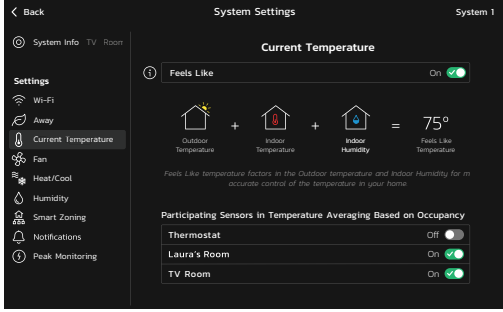
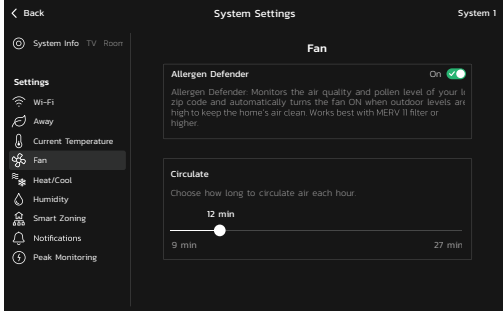
- Tap **Away** to display the Smart Away® settings. Use the slider to adjust the Away Cooling/Heating Setpoints.
- Use the Lennox Home App to control the temperatures in the home while away.

Controls the temperature in the home while away.

Smart Away®	On/Off	
Away Setpoints	60 to 90°F	62°F heating 85°F cooling

Reset Smart Away® (disables Smart Away® on all mobile devices)

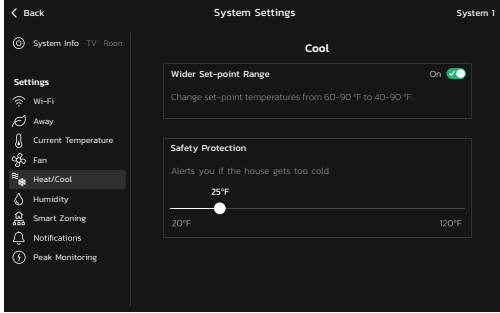
HOMEOWNER SETTINGS

CURRENT TEMPERATURE SCREEN		Setting	Notes	
			<ul style="list-style-type: none"> Tap Current Temperature to display the Current Temperature Screen. 	
Accurately controls temperature in the home by determining the “Feels Like™” temperature based on outdoor temperature, indoor temperature plus indoor relative humidity.	On/Off			
Smart Room Sensors	On/Off		<ul style="list-style-type: none"> Participating Smart Room Sensors can be enabled or disabled and also be enabled or disabled for Temperature Averaging based on occupancy (sleep). 	
FAN SCREEN		Setting	Default	Notes
				<ul style="list-style-type: none"> Tap Fan to display the Fan Screen. 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. Works best with MERV 11 filters or higher.
Allergen Defender (cleaning air)				
Set how long to circulate the air each hour.	9 to 27 minutes	20 minutes		

HOMEOWNER SETTINGS

HEAT/COOL SCREEN

Notes



- Tap **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.

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

Select Heat Pump Mode

SL25XPV, XP20

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

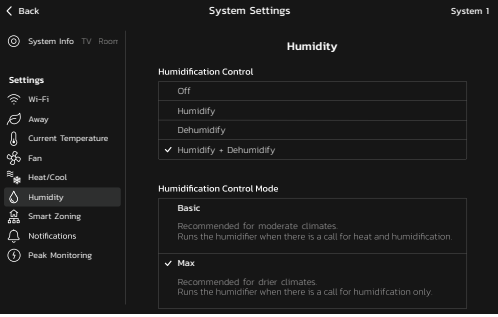
- Selecting **Auxiliary Heat** displays a slider to adjust balance point levels.

Safety Protection

30 to 100°F, adjustable

- Safety Protection** alerts the homeowner if the house is too cold or hot.

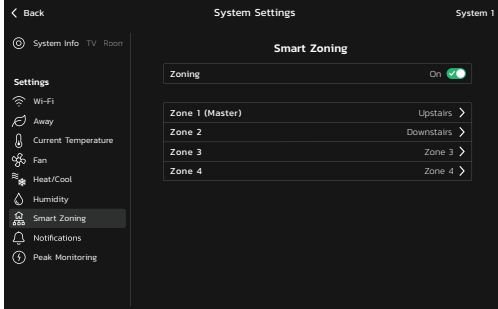
HOMEOWNER SETTINGS

HUMIDITY SCREEN		Setting	Default	Notes
				<ul style="list-style-type: none"> Tap Humidity to display the Humidity Screen. Dewpoint 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 0%). Humidification Control Center <ul style="list-style-type: none"> Basic setting is recommended for moderate climates. Operates the humidifier when there is a call for heating and humidification. Max setting is recommended for drier climates. Operates the humidifier when there is a call for humidification only. Dehumidification Control Center <ul style="list-style-type: none"> Basic setting is recommended for moderate climates. Operates the dehumidifier when there is a call for cooling and dehumidification. Max 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. Climate IQ® setting monitors regional weather conditions and automatically removes excess humidity when necessary. Climate IQ® settings are only available for Lennox® Communicating outdoor units (SL28XCV/SL25XPV, XC21/XP21, XC20/XP20) without any optional humidification/dehumidification equipment installed.
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		40%	Adjustable sliders allows Dehumidification/Humidification/Overcooling Setpoint adjustment.
Dehumidification Setpoint	40 to 60% relative humidity, adjustable		50%	Depending on humidity/dehumidity mode settings selected not all settings may be visible.
Overcooling Setpoint (Max or Climate IQ® only)	0 to 4°F, adjustable		2°F	
Humidification (left slider) + Dehumidification (right slider) Setpoint	15% to 60%, adjustable,		15% humidification 40% dehumidification	

HOMEOWNER SETTINGS

LENNOX SMART ZONING SYSTEM ZONING SCREEN (if equipped)

Notes



- Tap **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.

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

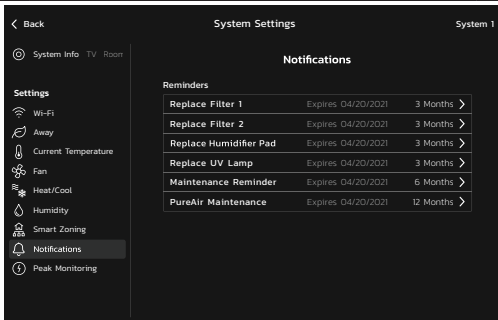
Zoning (On/Off)
 Zone 1 (Primary Zone)
 Zone 2
 Zone 3
 Zone 4

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

NOTIFICATIONS (REMINDERS) SCREEN Setting

Default

Notes



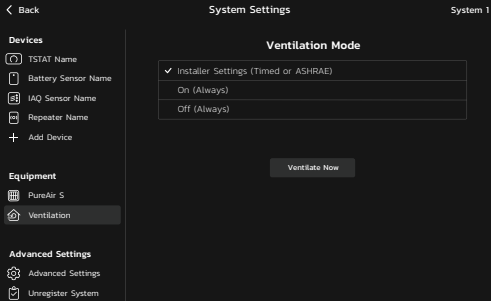
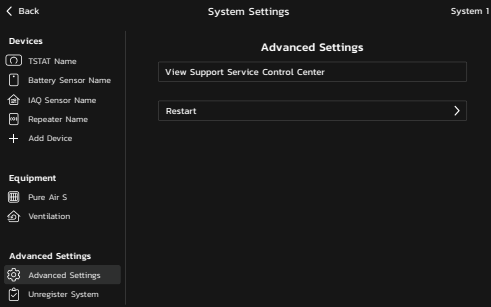
- Tap **Notifications** to display the Notifications Screen.

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

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

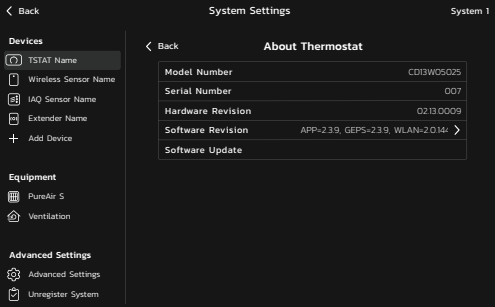
- Tap **custom** to access the **Set Date Tool** screen to input custom date settings.

HOMEOWNER SETTINGS

VENTILATION SCREEN	Setting	Notes
		<ul style="list-style-type: none"> Tap Ventilation to display the Ventilation Screen. Timed or ASHRAE setting allows homeowner to set a predetermined time to operate the Fresh Air Damper or HRV/ERV equipment. Tap the Ventilate Now Icon to set time and start operation. Tap the Stop Ventilating Icon to cancel operation. On (always) operates the ventilating unit anytime the system or fan is operating. Off (always) disables the ventilating unit anytime the system is operating.
Fresh Air Damper/HRV/ERV	<ul style="list-style-type: none"> Timed or ASHRAE On (always) Off (always) Ventilate Now Icon 10 Minutes 20 Minutes 30 Minutes 40 Minutes 50 Minutes 1 Hour 1 Hour 30 Minutes Custom 	<ul style="list-style-type: none"> If AHSRAE 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 49. Optional Equipment Interface Module (EIM) is also required for HRV/ERV integration with the S40 Thermostat
ADVANCED SETTINGS SCREEN		
		<ul style="list-style-type: none"> Tapping View Support Service Control Center displays a warning "The following screens are intended for use by qualified Lennox equipment installers only." Restart Thermostat restarts the system without affecting settings.
View Support Service Control Center - See page 31		
Restart	Restart Thermostat	
Unregister System		<ul style="list-style-type: none"> 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 27.

HOMEOWNER SETTINGS

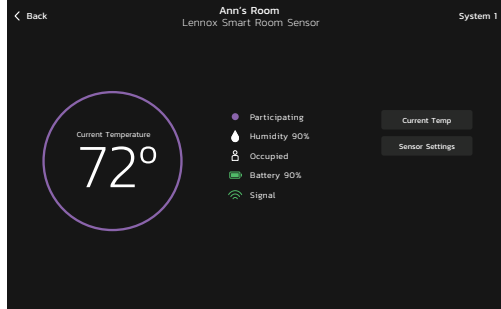
DEVICES SCREEN Notes



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

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 (Icon)

Device Settings (Icon)

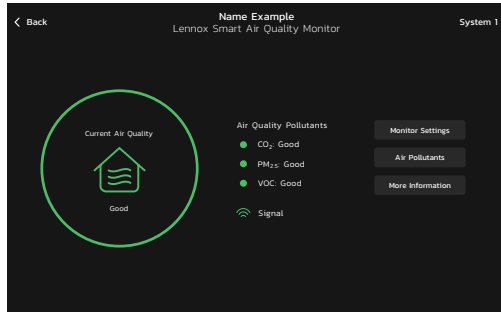
Notes

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

Displays System Settings/Current Temperature Setting Screen. See page 18.

Displays System Settings/Devices screen. See page 23.

IAQ MONITOR SCREEN



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

Monitor Settings (Icon)

Air Pollutants (Icon)

More Information (Icon)

Notes

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

IAQ Monitor measures Carbon Dioxide (CO₂), Particulate Matter (PM_{2.5}) and Volatile Organic Compounds (VOCs).

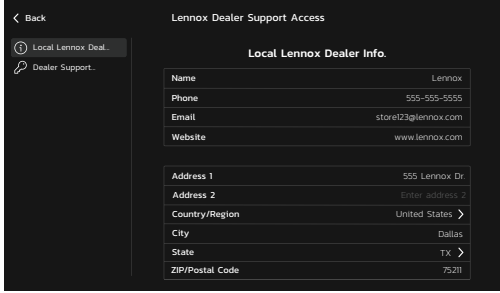
Displays System Settings/IAQ Monitor screen. See page 24.

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.

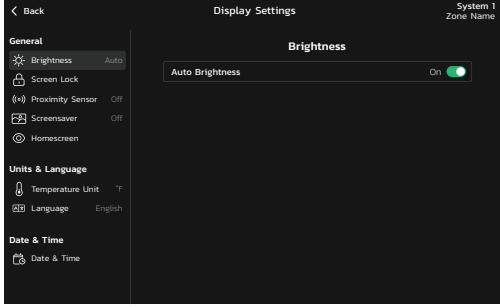








Local Lennox Dealer Info.	Name
	Phone
	Email
	Website
	Address 1
	Address 2
	Country/Region
	City
	State

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.

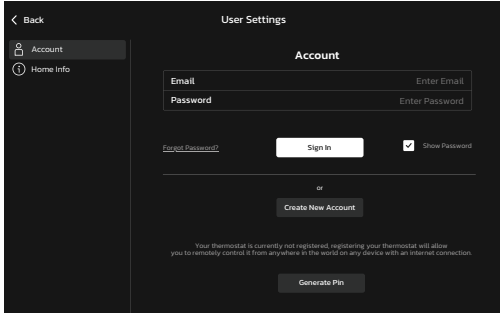
Temporary Advanced Diagnostics Access - allows 24 hour access to the homeowner's system for diagnostics and troubleshooting. Messaging request sent to the mobile app if requested.


HOMEOWNER SETTINGS

DISPLAY SETTINGS SCREEN		Notes
		<p> Various settings for the Display.</p>
Brightness	Auto Brightness (on/off)	<p> If Auto Brightness 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, tap 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> Default displays the current indoor temperature, outdoor temperature and time and date.</p> <p>Weather displays the current weather conditions screen.</p> <p>Power Save displays a blank screen until the screen is tapped or the proximity sensor is activated.</p> <p>Photo allows the homeowner to upload a photo to use as the screensaver in the Lennox Home 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)	
	Indoor Humidity (on/off)	
Temperature Unit	Fahrenheit - °F	
	Celsius - °C	
Language	English (default)	---
	French	
	Spanish	
Date & Time	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> <p> Setting date and time is disabled if there is a wi-fi connection to the thermostat.</p>
	Daylight Savings (on/off)	
	Time Zone	
	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 Home App

New Account



Enter homeowner's information, email and set password information

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

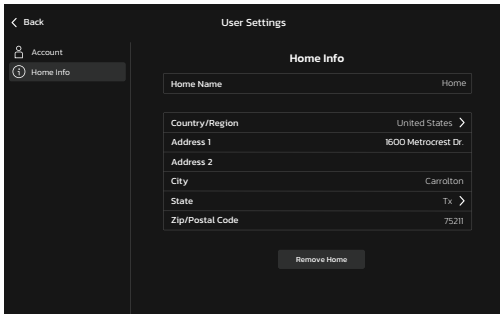
- Lennox End License user Agreement (EULA) (checkbox)

Create Account Icon

Generate Pin Icon

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

HOME INFO SCREEN



Home Name

Country/Region

- United States

- Canada

- Australia

Address


Address 2


City

State

Zip/Postal Code

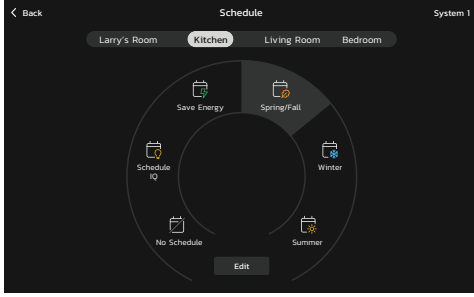
Remove Home Icon

 Input home information using the keyboard tool.

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

HOMEOWNER SETTINGS

SCHEDULE SCREEN



Tap the **Menu** Icon on the home screen to display the **Schedule** Icon. Tap the Schedule Icon to display the screen.

Tap a schedule to run it.

Tap **Edit Icon** to change schedule settings.

If the Lennox Smart Zoning System is part of the control system, selectable zone Icons 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™

Tap the **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 Home App. Multiple Apps on multiple devices can control one system.

Summer

Winter

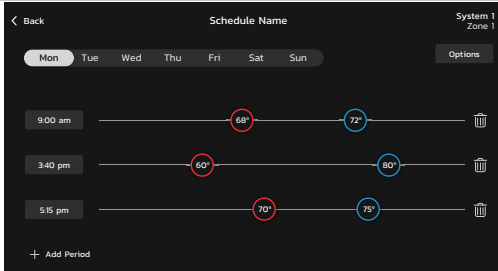
Spring/Fall

Save Energy

No Schedule

Edit Icon

EDIT SCHEDULES SCREEN



Tap a schedule to edit individual schedules.

Tap the **Back** Icon to return to the Schedule Screen.

Adjust individual times and temperatures for the day.

Time
(Up 4 time periods per day)

Tap each time period to change using the **set time** tool.

Tap 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. Tap 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 Icon

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

Schedule Name

Rename a schedule

When using **individual days** select < or > next to the day to advance to the next day.

Day Grouping

All Days

When using **week/weekend** select < or > next to the days to advance to the next group of days.

Week/Weekend
(Monday-Friday and Saturday-Sunday)

Individual Days
(Monday, Tuesday, etc.)

Using **all days** follows the same schedule for each day.

Mode (System Mode)

Heat/Cool

Heat Only

Cool Only

Fan

On

Auto

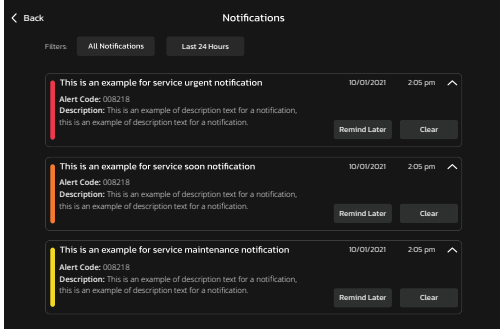
Circulate

Minutes per hour

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

HOMEOWNER SETTINGS

NOTIFICATIONS SCREEN



Any Notifications will also be displayed over the top-right corner of the Menu Icon on the Home Screen and also on the individual Icons on the Menu 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

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

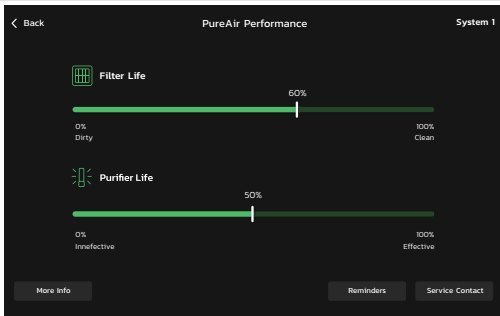
Reminders can be cleared or a “remind later” setting can be set (1 day, 1 week, 1 month, 3 months or custom).

Filter Notifications by a specific time

- All Notifications
- Last 24 Hours
- Last 30 Days
- Last 12 Months

Tap **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

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

Tap **PureAir Icon** for details about PureAir.

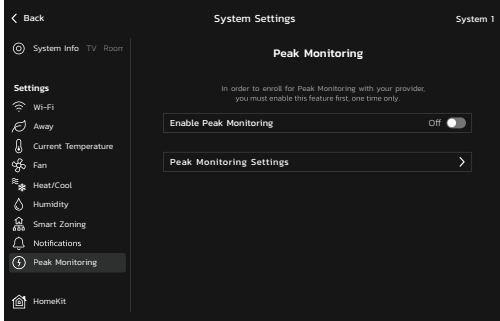
Tap **Service Contract** Icon for installer contact information.

Tap **Reminders** Icon to view PureAir maintenance reminder settings.

HOMEOWNER SETTINGS

PEAK MONITORING (ENERGY SAVINGS) AHRI 1380 AND TITLE 24

Notes



See the **S40 User Guide** for additional information about enrolling in the Energy Savings program and thermostat settings available. Peak Monitoring features are relevant when thermostat is enrolled in a participating utility or energy provider program.

Energy Savings feature (Title 24) is currently a requirement for the State of California.

AHRI 1380 is an industry standard that defines demand response functionality for thermostats used with residential and light-commercial HVAC systems.

For communicating, variable-speed thermostat applications, compliance is achieved through thermostat-initiated, temporary operational adjustments such as setpoint and system capacity curtailment or modulation – during utility-initiated Demand Response (DR) events.

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

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


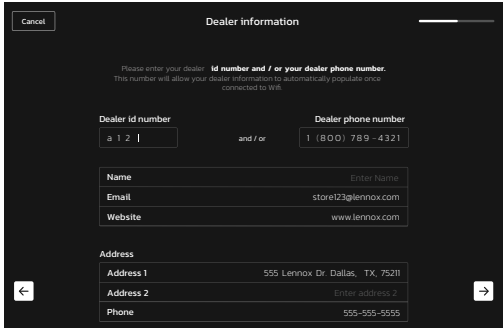
An energy saving event can be canceled when any of the following occur:
 Adjusting the temperature setpoint manually
 Selecting a schedule

Peak Price Event Active Setpoints:

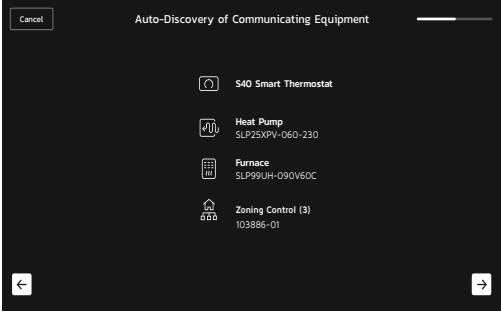



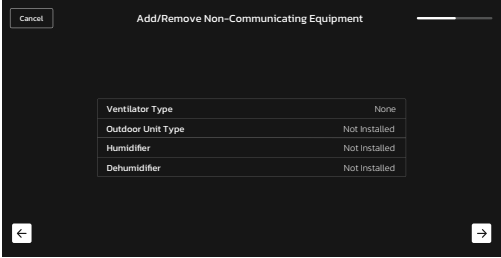




- Default (heat 60°F, cool 82°F)
- Offset
- Custom Setpoints
- Peak Monitoring Events Filter
- Factory Reset Peak Monitoring Settings(resets all parameters to factory settings and cancels enrollment)

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 Tech App)	---	
DEALER INFORMATION SCREEN		Notes	
	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.	ⓘ Installer can also use the keyboard tool to manually input dealer information before a wireless connection is established. ⓘ A progress bar in the upper right of the screen shows the amount of the setup process completed.	
Dealer Information	Dealer ID Number	enter id number	ⓘ Use the keyboard tool to manually input this information.
	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	Country/Region	ⓘ Use pop-up screens to select country/region, date, time and time zone.	
	Date and Time		
	- Date		
	- Time		
	- Time Zone		
	- Daylight Savings		On/Off
	Units		ⓘ Use pop-up screens to select temperature unit and unit system.
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">  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.  Tap the right arrow Icon to add non-communicating equipment.  After non-communicating equipment has been added it will also appear on the screen. 						
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">  Outdoor Unit Type selection only appears if a communicating outdoor unit is not detected during setup. 						
<p>Ventilator Type</p>	<table border="1"> <tr><td>None</td></tr> <tr><td>Fresh Air Damper</td></tr> <tr><td>1 Speed HRV</td></tr> <tr><td>2 Speed HRV</td></tr> <tr><td>1 Speed ERV</td></tr> <tr><td>2 Speed ERV</td></tr> </table>	None	Fresh Air Damper	1 Speed HRV	2 Speed HRV	1 Speed ERV	2 Speed ERV	<p>---</p>
None								
Fresh Air Damper								
1 Speed HRV								
2 Speed HRV								
1 Speed ERV								
2 Speed ERV								
<p>Outdoor Unit Type</p>	<table border="1"> <tr><td>Not Installed</td></tr> <tr><td>1 Stage AC Unit</td></tr> <tr><td>2 Stage AC Unit</td></tr> <tr><td>1 Stage HP Unit</td></tr> <tr><td>2 Stage HP Unit</td></tr> </table>	Not Installed	1 Stage AC Unit	2 Stage AC Unit	1 Stage HP Unit	2 Stage HP Unit	<ul style="list-style-type: none">  Outdoor Unit Type selection only appears if a communicating outdoor unit is not detected during setup. 	
Not Installed								
1 Stage AC Unit								
2 Stage AC Unit								
1 Stage HP Unit								
2 Stage HP Unit								
<p>Outdoor Unit Capacity</p>	<table border="1"> <tr><td>18 to 60 kBtuh</td><td>36 kBtuh</td></tr> </table>	18 to 60 kBtuh	36 kBtuh	<ul style="list-style-type: none">  If Outdoor Unit is non-communicating type, screen will display the above parameters to set. 				
18 to 60 kBtuh	36 kBtuh							
<p>Outdoor Unit 1st Stage Capacity</p>	<table border="1"> <tr><td>30 to 100 kBtuh</td><td>70 kBtuh</td></tr> </table>	30 to 100 kBtuh	70 kBtuh					
30 to 100 kBtuh	70 kBtuh							
<p>Humidifier</p>	<table border="1"> <tr><td>Not Installed</td></tr> <tr><td>Bypass (24VAC) Humidifier</td></tr> <tr><td>Power (120VAC) Humidifier</td></tr> <tr><td>Bypass and Power Humidifier</td></tr> </table>	Not Installed	Bypass (24VAC) Humidifier	Power (120VAC) Humidifier	Bypass and Power Humidifier	<p>---</p>		
Not Installed								
Bypass (24VAC) Humidifier								
Power (120VAC) Humidifier								
Bypass and Power Humidifier								
<p>Dehumidifier</p>	<table border="1"> <tr><td>Not Installed</td></tr> <tr><td>Humiditrol</td></tr> <tr><td>Auxiliary Dehumidifier</td></tr> </table>	Not Installed	Humiditrol	Auxiliary Dehumidifier	<p>---</p>			
Not Installed								
Humiditrol								
Auxiliary Dehumidifier								
<p>Lennox Smart Zoning System</p>	<p>Name the individual zones using the keyboard tool</p>	<ul style="list-style-type: none">  Tap 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. 						

INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

AIRFLOW PER ZONE SCREEN



Set blower settings for each zone

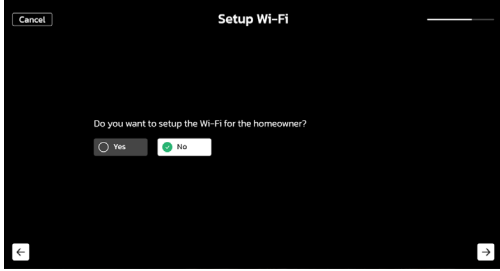
Blower Circulation Airflow (gray)

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).
- Tap the arrow next to each zone to adjust the individual airflows. Use the plus and minus icons to adjust airflow in 5 cfm increments.

SETUP WI-FI SCREEN

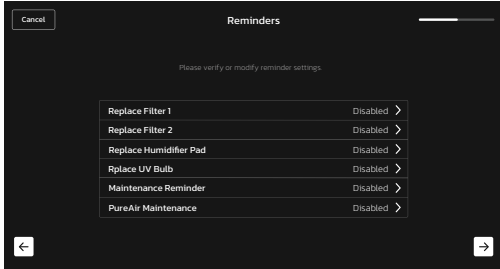


Setup Wi-Fi for the homeowner?

Yes/No

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

REMINDERS SCREEN



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

Notes

Maintenance Reminder Settings

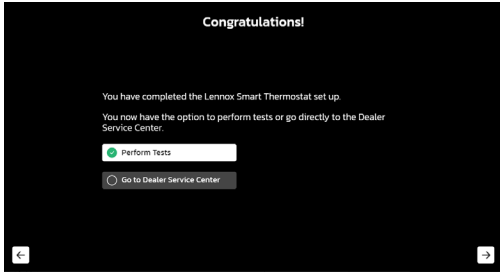
Setting	Default
Calendar Time	Disabled
Disabled	
3, 6, 12, 24 Months	
Custom date	
Run-Time	

- Tap **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
Perform Tests	
Go to Dealer Service Center	

Notes

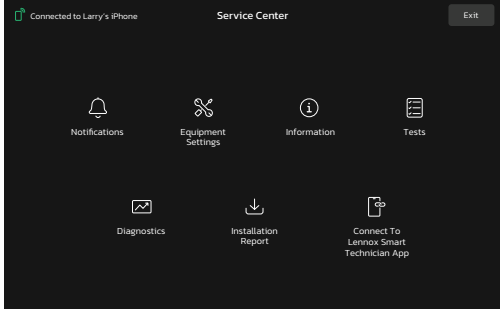
Lennox Home set up is complete

Perform Tests	
Go to Dealer Service Center	

- See page 47.
- See page 34.

INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

DEALER SERVICE CENTER SCREEN



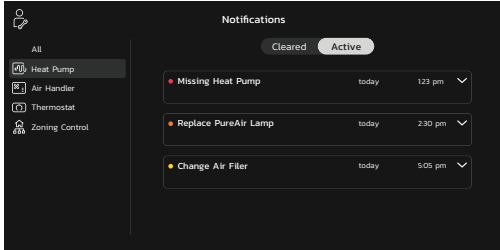
Provides access to the installer for viewing and performing various functions.

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



The Service Center can also be accessed from the Home Screen under the Menu Icon > 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, tap the down arrow to expand the description.

Tap the **Cleared Icon** 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)		0°F	
	Humidity Reading Calibration (-10 to 10% RH)		0%	
	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	85°F	---
SLP99	Gas Heat Control Mode	Staged		---
		Load Tracking Variable Capacity		
		Variable Capacity		
Staged	Number of Gas Heating Stages	1, 2, 3, 4	4	---
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	6.0	---
Dual Fuel	Minimum Gas Heating Off Time	1.5 to 10 min.	1.5 min.	---








INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

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




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.	20 min.	
XP21	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)		---
HEAT PUMP	Balance Point Control	Enabled/Disabled		---
	High Balance Point	-17 to 75°F	50°F	---
	Low Balance Point	-20 to 72°F	25°F	---
	Electric Heat Stages During Defrost	0 to 5	2	---
Min Dehumidification Setpoint		40 to 60°F	40°F	---
Humiditrol	Humiditrol Comfort Adjust	Maximum, Midpoint or Minimum Overcooling		---
Humidifier	Humidification Control Mode	Display Only, Precision, Precision Dew Point Control, Basic, Basic Dew Point Control		---
	- Dew Point Adjustment	-15 to 15°F	0	---
	Max. Humidification Setpoint	15 to 45% RH	45%	---
	Auto Changeover Humidification Deadband	5 to 10% RH	5%	---
Outdoor Temperature Reading Calibration		-10 to 10°F	0°F	---
Auto Dehumidification Overcooling Threshold		0 to 10°F	4°F	---
Severe Weather Protection		Enabled/Disabled		---
Freezing Alert Temperature		30 to 50°F	40°F	---
Zoning	Zoning Gas Heating DAT Cooldown target	80 to 90°F	85°F	---
	Zoning Anticipated Discharge Air Temperature Adjustment	0 to 120 seconds	60 seconds	---
	Zoning Target Supply Air Temp for Cooling	40 to 60°F	45°F	---
	Zoning Target Supply Air Temp for Gas/Electric Heating	100 to 130°F	110°F	---
	Zoning Target Supply Air Temp for HP Heating	85 to 110°F	90°F	---
	Zoning Supply Air Temp Limit for Cooling	35 to 45°F	40°F	---
	Zoning Supply Air Temp Limit for Gas/Electric Heating	140 to 160°F	140°F	---
Humiditrol	Humiditrol and Auxiliary Dehumidifier Minimum Run-Time	5 to 30 min.	15 min.	---
Dual Fuel	HP Heating Lockout Time	60 to 240 min.	120 min.	---
Zoning	Zoning Minimum Zone Run Time	90 to 600 sec.	120 sec.	---
	Zone 1 through 4 First Stage Differential	0.5 to 3.0°F	1.0°F	---

INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

EQUIPMENT (Thermostat)	Setting	Default	Notes
Smart Alert Enable	On/Off	On	<p> Smart Alert monitors the following conditions:</p> <ul style="list-style-type: none"> - Thermostat setpoint. - Temperature readings. - If the temperature is moving away from setpoint or toward setpoint. - Local climate design temperatures. - System run times. <p>NOTE - Not available with Zoning.</p> <p> Depending on type of system (conventional heating/cooling or heat pump system) and optional equipment not all system settings will be displayed.</p>
Cooling Capacity Alert	On/Off	On	---
Ventilation Control Mode	---		 See table on page 49 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	Off	<p> Weather displays the current weather conditions screen.</p> <p>Power Save displays a blank screen until the screen is tapped or the proximity sensor is activated.</p>
	Weather		
	Power Save		
	Logo		
Auto Brightness	On/Off		 If Auto Brightness is turned off a slider appears to manually adjust the brightness of the display.
Brightness Value	10 to 100%	80%	---
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	1	 Group ID is used to group two or more thermostats in the same home to allow communication between them.
Reset Thermostat (Icon)	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		
	Operating Temperature Limits		 Equipment specifications.
	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)	300 sec.	---
	Defrost Termination Temp (Heat Pump only) (50 to 100°F)	50°F	---
	Automatic Max Defrost (Heat Pump only) (On/Off)	Off	---
	Max Defrost by Weather (Heat Pump only) (On/Off)	Off	 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	On	---



INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

EQUIPMENT (Air Conditioner/Heat Pump)				
	Setting	Default	Notes	
Modulating Systems	High Normal Cooling Airflow	450 to 2000 cfm	1800 cfm	---
	Low Normal Cooling Airflow	450 to 2000 cfm	900 cfm	---
	High Normal HP Heating Airflow	450 to 2000 cfm	1806 cfm	---
	Low Normal HP Heating Airflow	450 to 2000 cfm	1150 cfm	---
	Dehum Airflow Adjustment Adder	0 to 30°F	0°F	---
Two-Stage (HP)	Fan Cycling	On/Off	Off	---
Reset Air Conditioner / Heat Pump (Icon)		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	1400 cfm	---
	High Cooling Airflow	450 to 2000 cfm	2000 cfm	---
	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)	A	---
	Continuous Indoor Blower Airflow	450 to 2000 cfm	760 cfm	---
Dehumidification Airflow %		60 to 80%	70%	---




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.	0 sec.	---
	Cooling Indoor Blower ON	0 to 10 sec.	2 sec.	---
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	492 cfm	
- High Heating Airflow		1150 to 1575 cfm	1403 cfm	
With Discharge Air Temperature (DAT):		---		 Selections available if Discharge Air Temperature Sensor is installed.
- Low Heating Discharge Air Temperature		110 to 140°F	125°F	
- High Heating Discharge Air Temperature		120 to 150°F	135°F	
Reset Furnace (Icon)		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	2005 cfm	---
Two-Stage (AC/HP)	Low Cooling Airflow	450 to 2150 cfm	1260 cfm	---
	High Cooling Airflow	450 to 2150 cfm	2000 cfm	---
	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.)	1	---
Two-Stage (HP)	Low HP Airflow	450 to 600 cfm	450 cfm	 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	975 cfm	
Continuous Indoor Blower Airflow		450 to 2150 cfm	800 cfm	
Humidification Airflow (Humidifier)		250 to 1150 cfm	450 cfm	
Dehumidification Airflow % (Dehumidifier)		60 to 80%	70%	 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.	10 sec.		
Heating Indoor Blower ON Delay			0 to 5 sec.	0 sec.		
Cooling Indoor Blower OFF Delay			0 to 30 sec.	0 sec.		
Cooling Indoor Blower ON Delay			0 to 10 sec.	2 sec.		
HP Indoor Blower OFF Delay			0 to 60 sec.	45 sec.		
HP Indoor Blower ON Delay			0 to 30 sec.	0 sec.		
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					
Firmware Version						
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		
	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
Zone 2 Temperature Reading Calibration	-5 to 5°F	0°F	---
Zone 3 Temperature Reading Calibration	-5 to 5°F	0°F	---
Zone 4 Temperature Reading Calibration	-5 to 5°F	0°F	---
Reset Zoning Control (Icon)	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	On	---
Max Air Filtered Between Tests	50 to 500%	100%	---
UV Lamp Operation Detection	On/Off	On	---
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 (Icon)	Reset to 100%		---
Reset Filter Life (Icon)	Reset to 100%		---
Reset PureAir S Controller Board (Icon)	Reset to factory default settings		---

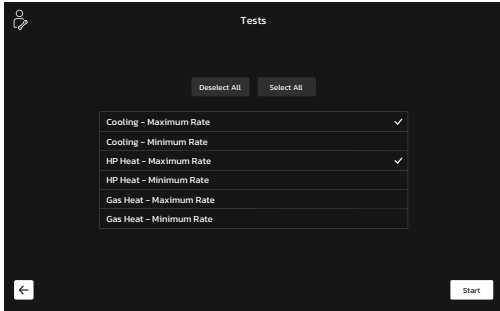
INSTALLER SETTINGS (SUPPORT SERVICE CONTROL CENTER)

INFORMATION SCREEN



Dealer Information Screen

See page 31.

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 33.

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

Select Test

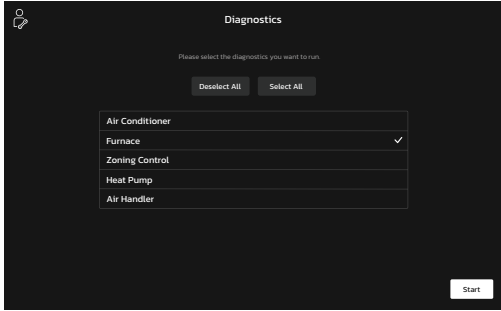
Deselect All

Select All

-  Tap each test parameter to select or deselect before running. A checkmark appears if selected.
-  Tap **Start Icon** to start testing. Tap **Skip Icon** to move to the next test in the list (automated testing only). Tap **Cancel Icon** to cancel all tests. Tap **Done Icon** 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

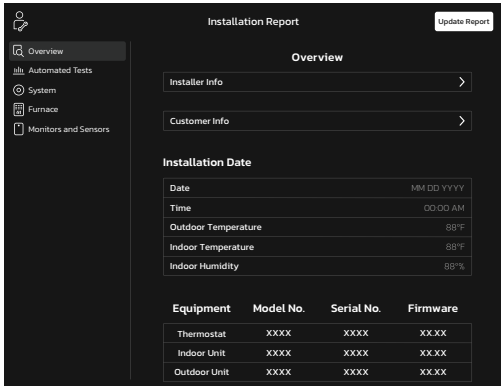
Tap each unit to select or deselect before running. A checkmark appears if selected.

Tap **Start Icon** to start testing. Tap **Stop Icon** 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.

Tap the different Icons 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
	Timed					
	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
ASHRAE (62.2)						
	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
Ventilation Outdoor Condition Override - Enabled						
	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
Thermostat Accessories	Homeowner can now commission Smart Room Sensors, Wireless Extender and IAQ Monitor



Visit us at www.Lennox.com

For the latest technical information, www.LennoxPros.com

Contact us at 1-800-9-LENNOX

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

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