



RESIDENTIAL PRODUCT SPECIFICATIONS

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Supersedes January 2020



The iComfort® E30 Smart Wi-Fi thermostat is applicable to most non-communicating HVAC systems (up to 3 stages of heating and 2 stages of cooling).

- A simple easy-to-use touchscreen allows complete system configuration. Scheduled maintenance alerts, system warnings and troubleshooting are also displayed on thermostat screen
- Up to four separate schedules are available plus Schedule IQ™
- One-Touch Away Mode - A quick and easy way to set the cooling and heating setpoints while away
- Smart Away™ - Schedule IQ™ uses geo-fencing technology to determine when the homeowner is within a predetermined distance from the home to operate the system when leaving, away and arriving
- Weather-On-Demand - Live up-to-date weather data and seven-day forecasts.
- 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 simple tests for easy maintenance and troubleshooting
- Dealer Dashboard features online real-time monitoring of systems
- Serial communications bus (RSBUs), with less wiring than a conventional heating/cooling system, allows system communication
- Uses 4-wire standard thermostat wiring
- Conventional thermostat wiring connects the Smart Hub Controller to the indoor/outdoor equipment
- See System Components on page 3 for additional details
- High Definition Color Display with Subbase, Smart Hub Controller, wallplate (for retrofit installations) furnished for easy installation
- Additional indoor air quality comfort products (PureAir™ Air Purification System, Healthy Climate® Humidifiers, Humiditrol® Enhanced Dehumidification Accessory, Healthy Climate® Energy/Heat Recovery Ventilators, Healthy Climate® Germicidal Lights) can be added to the system for a complete total-comfort system

Wi-Fi remote monitoring and adjustment through a home wireless network for desktop PCs, laptops and apps for smartphones or tablets.

Service alerts and reminders.



Home Automation for Apple HomeKit™, Amazon Alexa®, Google Assistant and IFTTT Integration

- See page 10 for additional information



WARRANTY

EQUIPMENT WARRANTY

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

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

TABLE OF CONTENTS

BASIC INFORMATION

Control Ordering Information.....	6
Energy Savings	28
Home Automation.....	10
Icomfort® E30 Components.....	4
Performance Reports	11
Remote Access (Homeowner/Installer)	8
Service Dashboard	7
Smart Hub Controller Connections.....	6
Typical System Components.....	3

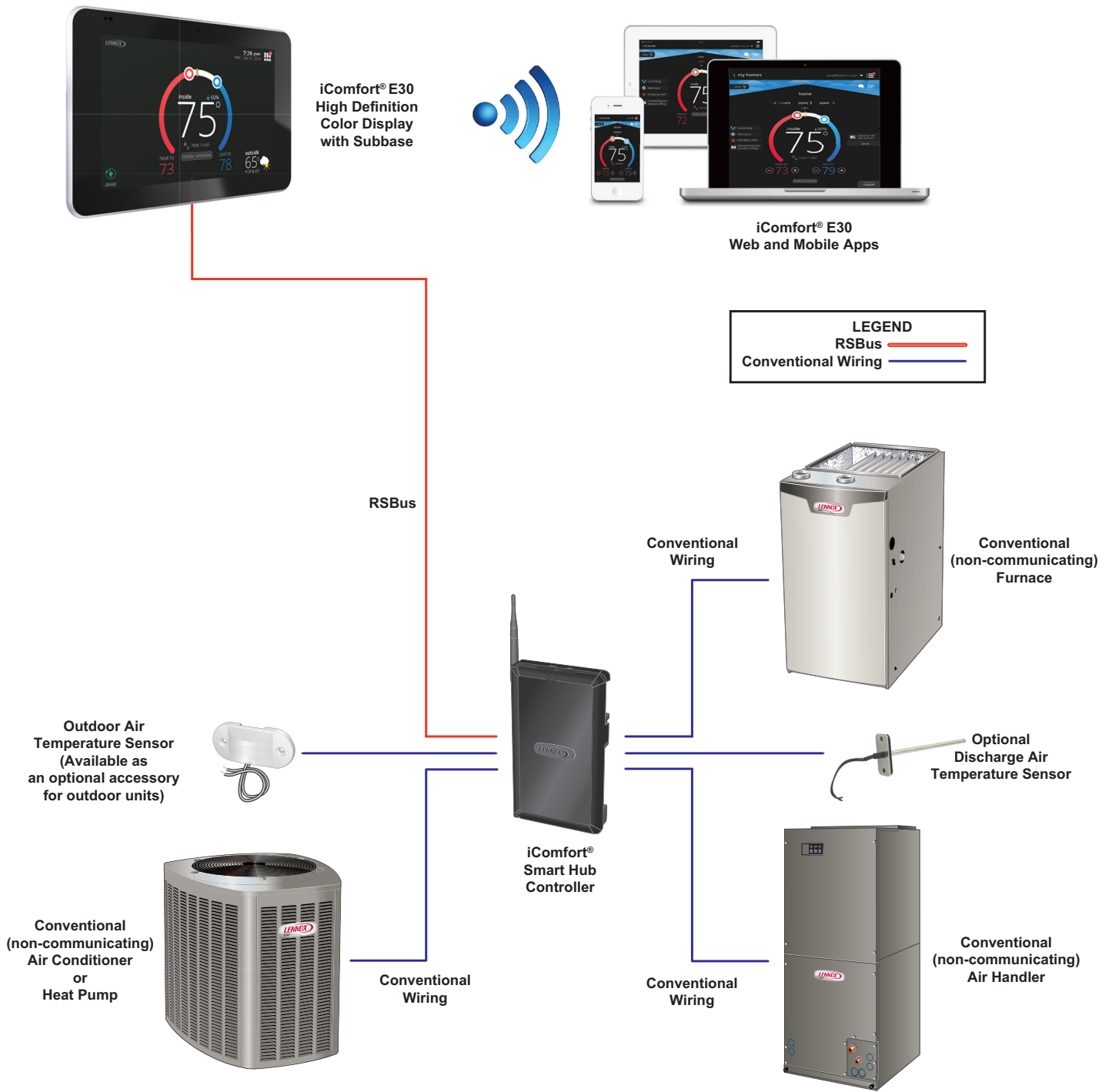
INSTALLER SETTINGS

Apple Homekit Setup.....	27
Control Center Screen	23
Dealer Id/Phone Number Warning Screen	21
Diagnostics Screen	26
Equipment.....	23
Equipment Found Screen	22
Information Screen	26
Installation Report Screen	26
Setup Process	
1 - Dealer Information Screen.....	21
2 - General Information Screen.....	21
3 - Home Address Screen.....	22
4 - Add / Remove Equipment Screen	22
5 - Reminders Screen	22
System Discovery Screen.....	21
Tests Screen	25

USER SETTINGS

Account Screen	18
Advanced Settings (Installer Settings).....	17
Away Screen.....	14
Away Settings Screen.....	15
Cool Menu Screen.....	14
Display Screen	18
Edit Schedules Screen.....	19
Fan Screen.....	15
Feels Like Screen.....	15
General Screen.....	17
Heat/Cool Screen.....	16
Heat Menu Screen.....	14
Home Info Screen	18
Home Screen (Thermostat On)	12
Humidity Screen (Humidity Control).....	16
Menu Screen	13
Modes/Schedules Screen	13
Name Screen.....	15
Notifications (Reminders) Screen.....	17
Notifications Screen	20
Schedule Hold Screen	13
Schedules Screen.....	19
Settings Screen.....	15
Weather Forecast Screen	14
Wi-Fi Screen	15

TYPICAL SYSTEM COMPONENTS




NOTE - The Lennox iComfort® E30 smart thermostat will also work with most conventional (non-communicating) 24VAC furnaces, air conditioners, air handlers and heat pumps (up to 3 stages of heat and 2 stages of cooling).


NOTE - The E30 smart thermostat can also be wired to operate like a conventional thermostat (instead of using the RSBus) to a communicating indoor unit but without any communicating features.

HIGH DEFINITION COLOR DISPLAY



- Easy to read 7 in. high definition color tablet-like display interfaces with the Smart Hub Controller to operate the HVAC systems within the home.
- Contains a temperature sensor to monitor and control temperatures in the home through the display.
 - Sensor 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
- Communication to Smart Hub Controller:
 - Two Wire, 18AWG (RSBus) unshielded thermostat cable for low voltage Smart Hub power terminals (R, C, + and -)
 - Two Wire, 18 to 22AWG (RSBus) shielded thermostat cable recommended for Smart Hub communications terminals (I+, I-, A and B)

 Display can control multiple HVAC systems in the home through multiple Smart Hub Controllers.

 Multiple displays (thermostats) in the home can operate any Smart Hub Controllers installed in the home.

- All user settings are made on the display (or on the mobile App) and stored in the Smart Hub Controller

Subbase

- Furnished with Display
- Secure wall mount for the High Definition Color Display
- Spring-loaded push connectors for easy wiring hookup
- Mounting hardware is included

SMART HUB CONTROLLER



- Stores user's system settings from the High Definition Color Display or mobile Apps in non-volatile memory
- Built-in Wi-Fi connection to the Internet is accomplished through the Smart Hub Controller and the home Wi-Fi network (LAN)

? Wi-Fi connection to the Internet is accomplished through the Display directly or using mobile Apps.

? Supports wireless bands 802.11b, 802.11g and 802.11n.

- One Smart Hub Controller can connect to and control other Smart Hub Controllers in the home through the home Wi-Fi network

? Multiple Smart Hubs in a home can be assigned to a group (up to nine groups with up to eight Smart Hubs in each group). All Smart Hubs in a group can communicate with other Smart Hubs in the same group over the home Wi-Fi network.

- USB port allows field firmware upgrades for the E30 thermostat components
- Firmware updates can also be pushed from the Lennox server to the Smart Hub Controller
- Full RSBus communication between the Smart Hub Controller and HVAC equipment:
 - **Indoor To Outdoor Unit:**
 - Four Wire, 18AWG (RSBus)
 - **Indoor Unit To Smart Hub Controller:**
 - Two Wire, **18AWG** (RSBus) unshielded thermostat cable for low voltage **Smart Hub power terminals** (R, C, + and -)
 - Two Wire, **18 to 22AWG** (RSBus) shielded thermostat cable recommended for **Smart Hub communications terminals** (I+, I-, A and B)
- Spring-loaded push connectors for easy wiring hookup.
- Power (24VAC) to the Smart Hub Controller is supplied by the indoor unit
- Mounting hardware for Smart Hub Controller is field furnished

- Commissioning/Reboot button is located on the side of the case

? Quickly press and release the Commissioning/Reboot button to create a special local network between the Smart Hub and a mobile device running the iComfort Mobile Setup application.

- Two status LEDs show current operating conditions
 - Left LED (System Status):
 - Solid Green - System is operating normally. Connected to home Wi-Fi network
 - Solid Red - HVAC equipment error
 - Flashing Amber - No Home Wi-Fi network detected
 - Flashing Magenta - Display not connected
 - Flashing Cyan - Internal thermostat communication error
 - Right LED (Commissioning Status):
 - Solid Blue - No mobile device is connected to the Smart Hub. System is operating normally
 - Flashing Green - Smart Hub Commissioning has been activated
 - Solid Green - Mobile device is connected to Smart Hub

? Commissioning Status LED also alerts user to any system errors.

? See Installation and Setup Guide for additional information.

Dealer App Operation

- Flashing Green LED - Smart Hub is attempting to connect to the Dealer App (2 minute attempt)
- Solid Green LED - Dealer App is connected and in use
- Solid Blue LED - Dealer App is disconnected and normal system operation is resumed

Jumpers are furnished for the following settings:

- Unit Type: IFC (furnace) or AHC (air handler). Default setting is furnace
- Number of Heat Stages (0, 1, 2, 3). Default setting is 1 stage)

Terminal Connections

Communicating RSBus - To iComfort® thermostat:

- A, B, +, -

Non-Communicating - To conventional indoor/outdoor units:

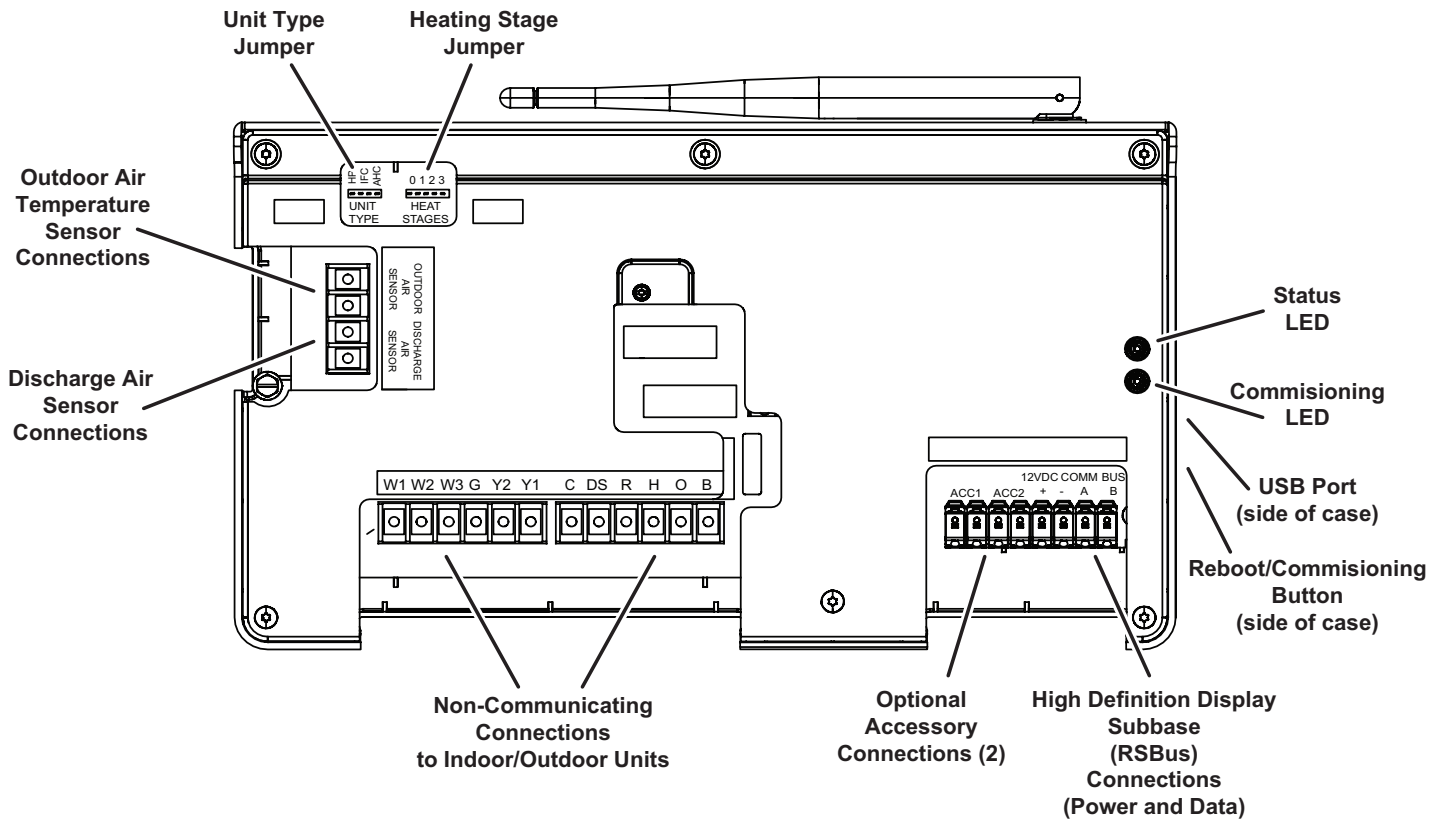
- W1, W2, W3, G, Y2, Y1, C, DS, R, H, O, B

Non-Communicating - To optional accessories:

- ACC1 (2), ACC2 (2) (FUTURE USE)
- Connections are also furnished for an optional Outdoor Air Temperature Sensor and Discharge Air Sensor

NOTE - Sensors must be ordered separately.

SMART HUB CONTROLLER CONNECTIONS



CONTROL ORDERING INFORMATION



iComfort E30 Smart Thermostat Components

Description	Catalog No.
iComfort E30 Smart Thermostat (includes high definition display with Subbase and Smart Hub Controller) Dimensions: High Definition Display with Subbase (H x W x D) - 5 x 7-1/4 x 1 in. Smart Hub Controller Case (H x W x D) - 11-1/2 x 7-1/8 x 1-7/8 in. Antenna length - 7-1/4 in.	20A65
¹ Optional Outdoor Air Temperature Sensor	X2658
² Discharge Air Temperature Sensor	88K38

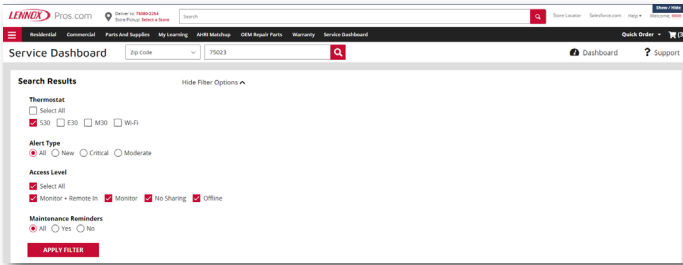
¹ The Optional Outdoor Air Temperature Sensor may be ordered for use with a conventional outdoor unit. Allows the thermostat to display outdoor temperature. Required for dual-dual applications with a heat pump outdoor unit.

² Optional for service diagnostics.

SERVICE DASHBOARD

- Displays Dealer's iComfort® thermostat installations in one convenient location
- Accessible through the Service Dashboard at www.LennoxPros.com

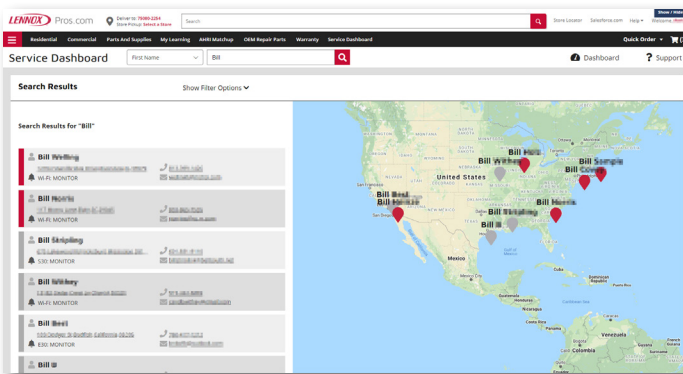
Service Dashboard Search Screen



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 iComfort® thermostats, and their locations:
 - Name
 - Address
 - Phone
 - Email
 - Thermostat Type and Monitor Status

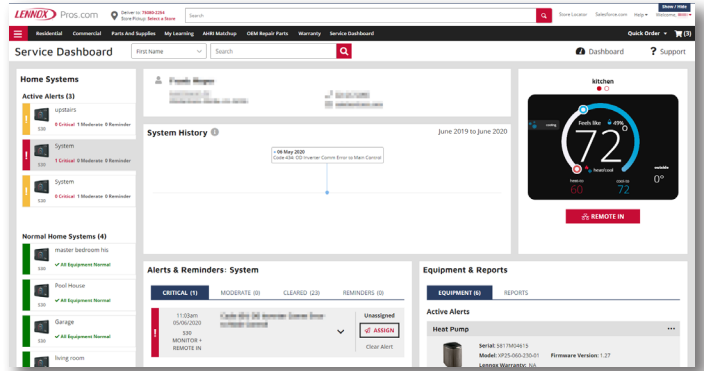
Map

- 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

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

Reports Tab

- View Performance Reports, Installation Reports and Installation Update Reports
- Generate Monthly Performance Reports
- Generate Installation Update reports
- View Performance Reports Button displays a graphical view of the system performance, see page 11

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

Remote In Button

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

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

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

NOTE - For additional information please visit the [Service Tools Help Center](#).

REMOTE ACCESS (HOMEOWNER/INSTALLER)



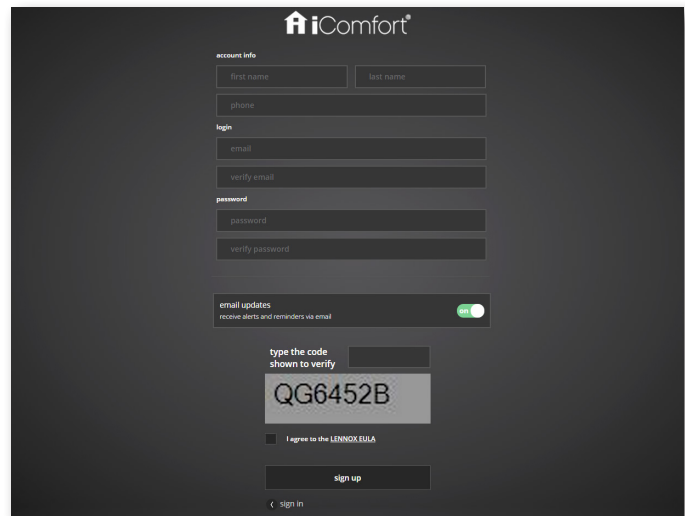
Wi-Fi remote temperature monitoring and adjustment through a home wireless network via desktop PCs, laptops, and apps for smartphones or tablets.


Controls on the devices have the same appearance and functions as the touchscreen display, making it easy to make any settings and adjustments.

HOMEOWNER LOGIN



The Login screen is accessible to the homeowner at: www.lennoxicomfort.com.



 Thermostat must be registered before logging into the Homeowner Remote Access Website. Please refer to the homeowners manual for additional information.

After logging in and creating an account, the homeowner can enter specific information for the iComfort® E30 Thermostat (single or multiple systems), set up multiple homes and specify what alerts and reminders they would like to receive.

The homeowner can control all iComfort® E30 Thermostats on the network remotely through the website.

Multiple iComfort E30® Thermostat Control

- One home - one iComfort® E30 Thermostat
- Two or more homes - one iComfort® E30 Thermostat each
- One home - multiple iComfort® E30 Thermostats
- Two or more homes - multiple iComfort® E30 Thermostats

REMOTE ACCESS (HOMEOWNER/INSTALLER)

MOBILE APPS

iComfort® Thermostat App (Homeowner)

The free iComfort® Thermostat app is available for use on iPhone® and iPad®, Android™ devices.

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

Also controls individual zone settings if system is equipped with the optional iHarmony® Zoning System.



iComfort® Mobile Setup App (Installer)

Allows the installer to commission the system and remotely turn the system on and off during setup or service call from any iPhone®, iPad® and Android™ device (click icon).



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HOME AUTOMATION

HOME AUTOMATION

Amazon® Alexa

The iComfort® E30 Smart Thermostat is an Amazon® Alexa-enabled, smart-home-compatible thermostat. It works with Amazon Echo, Echo Dot and Tap devices allowing the homeowner to tell Alexa to adjust the temperature.

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



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

Amazon's trademark is used under license from Amazon.com, Inc. or its affiliates.

Apple HomeKit™

The iComfort® E30 Smart Thermostat works with Apple HomeKit, making it easy to control the E30 thermostat from an iPhone, iPad or iPod device. Use Siri® voice commands to control the E30 thermostat, set configurable “scenes” to control multiple HomeKit accessories with a single Siri command, and set location-based scene triggers to activate scenes when arriving or leaving the home (geo-fencing).



See Installer Setup on page 10 for additional information. Also see the User Guide for additional information.

Apple HomeKit™ and Siri® are trademarks of Apple Inc.

Google Assistant

Control basic functions of the E30 thermostat using Google Assistant.

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

Once you have added the thermostat to your Google Home app, then 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 [iComfort® Support Website for Google Assistant Integration](#).



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IFTTT



ifthisthenthat

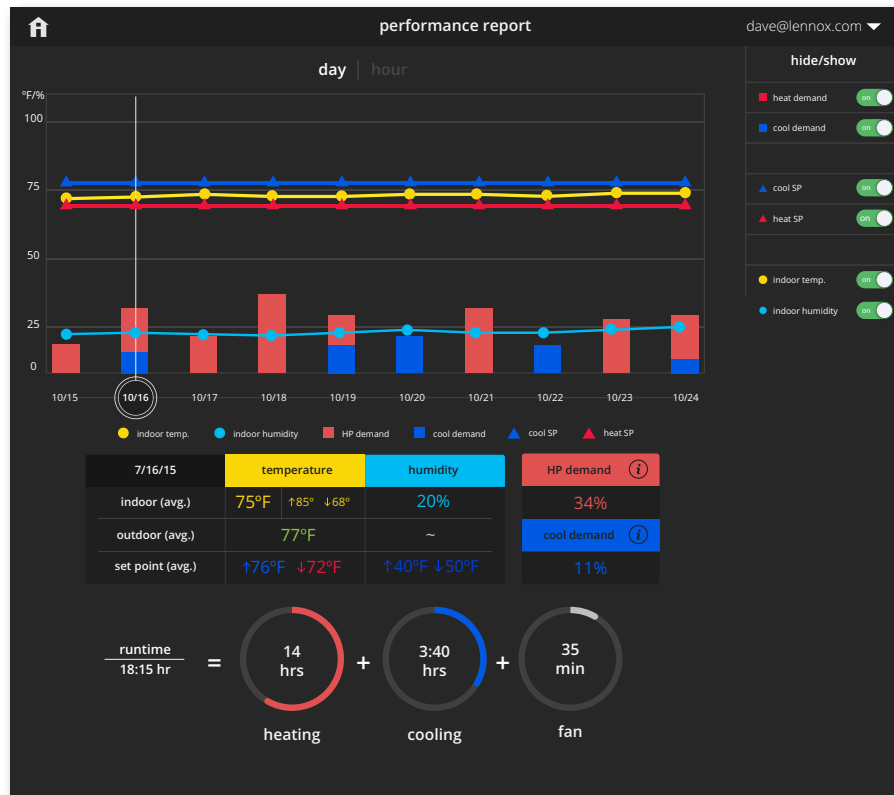
IFTTT, an acronym for If This Then That, is a free service that automates connectivity between apps and services, enabling users to utilize “recipes” that will coordinate small tasks between Internet and web services.

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 [iComfort® Support Website for IFTTT Integration](#).



PERFORMANCE REPORTS



- NOTE - Performance Reports are only available through a web portal.
- NOTE - Performance Reports are not available on the iComfort® E30 thermostat directly or the Mobile Apps.

Homeowner access is available at www.LennoxComfort.com

Dealer access is available through the Dealer 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.

Dealer 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** button on cooling or heating demands for additional information.

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

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

Circle Graph

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

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

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

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

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

FEATURES

USER SETTINGS

HOME SCREEN (Thermostat ON)



Touch blank screen to turn on the backlight. If proximity sensor is on (approximately 12 in. range) display will turn on automatically.

Temperature Settings

- Large display of current inside temperature (°F or °C)
- Heating and Cooling Setpoint Indicators on the round animated temperature band
- Current cooling setpoint temperature Button (cool-to)
- Current heating setpoint temperature Button (heat-to)

Touching the heat or cool setpoint indicators on the round temperature band, or touching the **heat-to** or **cool-to** buttons displays the heat or cool menu screens (see page 14).

Both heating and cooling setpoint indicators on the round temperature band and the **heat-to** and **cool-to** buttons are displayed if System is set to Heat/Cool mode or if an active schedule is set to Heat/Cool mode.

Current Outdoor Temperature

- Displays current outdoor temperature in °F or °C

The default outdoor temperature is supplied by the Outdoor Air Temperature Sensor or the Wi-Fi data connection (user selectable on the thermostat). The outdoor sensor is furnished as standard with iComfort® Communicating outdoor units, optional for conventional units.

Weather Forecast Display

- Displays current weather forecast

Touch to display **Weather Forecast** screen (see page 14).

Time and Date Display

- Displays current date and time

Humidity Display

- Displays current inside relative humidity above current indoor temperature

Modes/Schedules

- Displays current system operating mode below current indoor temperature (cool only, heat only, heat/cool, active schedule running or off)

Touch to access **Modes/Schedules** screen (see page 13).

Menu Button

Touch to display **settings** screen (see page 14).

Any Notifications will be displayed over the top-right corner of the Menu Button.



Away Mode Button away

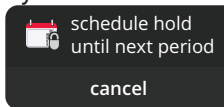
Touch to display **away mode** screen (see page 14).

System Status Icons (left side of screen)

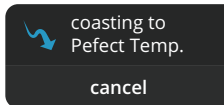
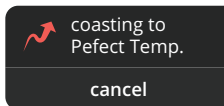


Up to four status icons can be displayed at one time on the left side of the screen.

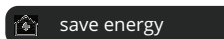
System Status Icons (right side of screen)



Schedule Hold is displayed when a current schedule override is in effect. **Cancel** returns to current schedule (see page 13).



Coasting allows the current temperature to reach desired setpoint without system operation by "coasting" to the set heating or cooling setpoint. **Cancel** returns to current schedule.

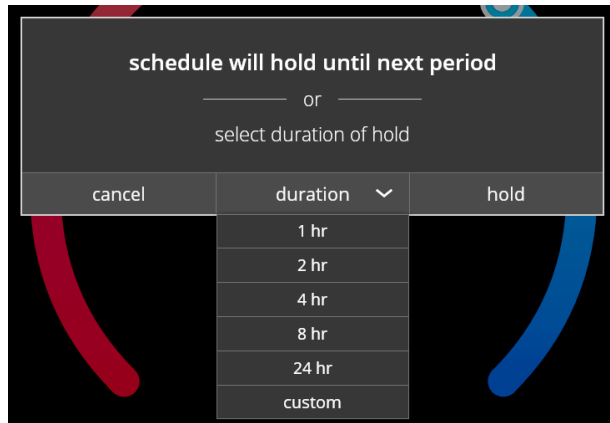


Save Energy allows the utility company to control the energy savings time period (California only). You can select cancel to exit this mode. By canceling user is opting out of the current active energy savings events. Also see .

FEATURES

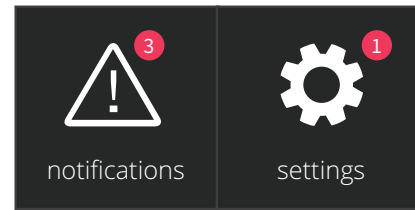
USER SETTINGS

SCHEDULE HOLD SCREEN



? The **schedule hold** screen is displayed after changing the temperatures on the heating or cooling screens while a schedule is running. 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. **Cancel schedule hold** button on Home Screen cancels the held setting.

MENU SCREEN



? Touch each item to display the selected screen.

Notifications Button

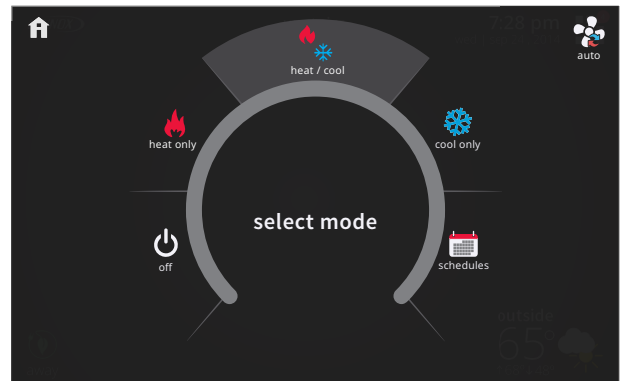
- Displays system operating and service reminder messages (see page 20)

Settings Button

- Displays various user settings (wi-fi status, system name, away, feels like™, fan, heat/cool, humidity, notifications, advanced settings, general, display, home info, account) (see page 14)

? Touch anywhere on a blank part of the screen to return to the Home Screen.

MODES/SCHEDULES SCREEN



? Touch **modes/schedules** on home screen under current operating mode to access screen.

Select system mode, operate a specific schedule or change blower operation.

Select Mode

- Off Button
- Cool Only Button
- Heat Only Button
- Emergency Heat Button (heat pump systems only)
- Schedules (see page 19)

Fan Button

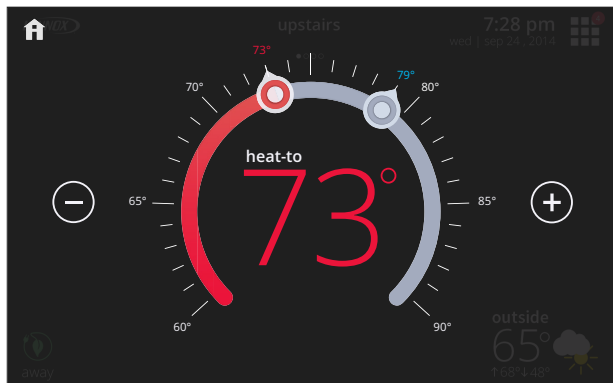
- On
- Auto
- Circulate

? Touch anywhere on a blank part of the screen to return to the Home Screen.

FEATURES

USER SETTINGS

HEAT MENU SCREEN



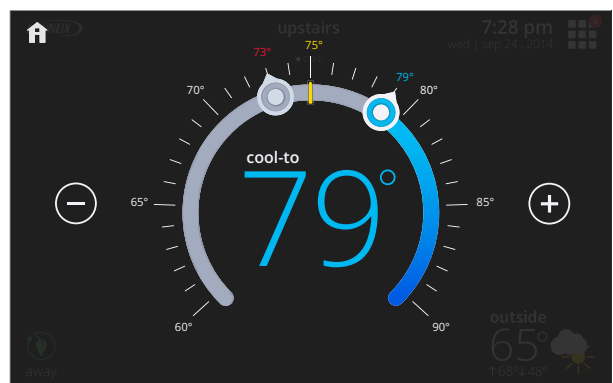
On the Home Screen, touching the heat setpoint indicators on the round temperature band, or touching the **heat-to** button displays the heat menu screen.

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

Touch and move the red heat setpoint indicator on the round temperature band, or touch the **plus** or **minus** buttons to change the heating setpoint in one degree increments. Adjustable 40 to 90°F.

During a scheduled time period, touching either the setpoint indicator on the temperature band or the heat-to button will initiate a temporary override (schedule hold) (see page 13).

COOL MENU SCREEN



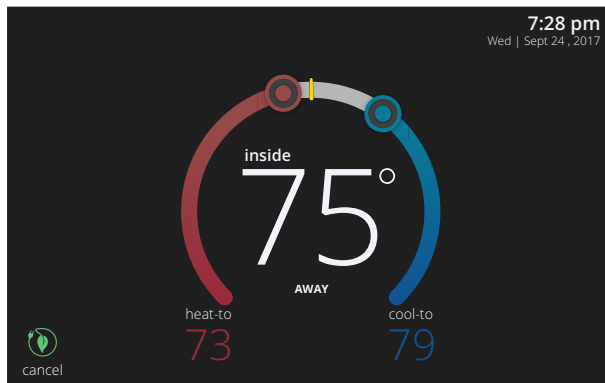
On the Home Screen, touching the cool setpoint indicators on the round temperature band, or touching the **cool-to** button displays the cool menu screen.

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

Touch and move the blue cool setpoint indicator on the round temperature band, or touch the **plus** or **minus** buttons to change the cooling setpoint in one degree increments. Adjustable (60 to 99°F).

During a scheduled time period, touching either the setpoint indicator on the temperature band or the cool-to button will initiate a temporary override (schedule hold) (see page 13).

AWAY SCREEN



Set heating or cooling setpoints during unoccupied periods.

- Heating and Cooling Setpoint Indicators on the round temperature band
- Current cooling setpoint temperature Button (cool-to)
- Current heating setpoint temperature Button (heat-to)
- Cancel Away Mode Button

Away mode temperature settings can be adjusted on the Away Settings screen (see page 15).

Touch **cancel** button to end away mode and return to current system operation.

WEATHER FORECAST SCREEN



Displays current local weather conditions.

Wi-Fi must be enabled to access weather forecast screen.

Weather information is provided by [Accuweather](#). Configured in the Display settings (see page 18).

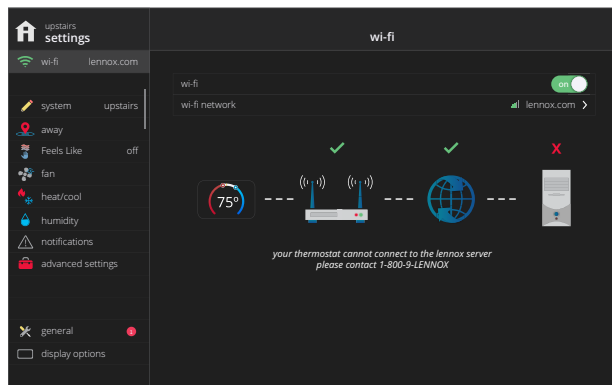
- Current conditions (temperature, high-low temperature forecast for current day, precipitation percentage, wind and relative humidity)
- Hourly forecast
- 7-Day forecast
- Pollen conditions (tree, weed, grass, mold)
- UV Index
- Air Quality

Touch individual pollen, UV and air quality circle to see the conditions scale (low-medium-high).

FEATURES

USER SETTINGS

SETTINGS SCREEN

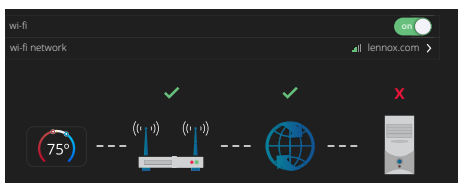


Access to all user settings

- Wi-Fi
- Name
- Away
- Feels Like™
- Fan
- Heat/Cool
- Humidity
- Notifications
- Advanced Settings (Installer Settings)
- General
- Display
- Home Info
- Account

Touch a parameter on the left side of the screen to display that particular screen.

WI-FI SCREEN



A graphical representation of the home network showing the connection status from the High Definition Display to the Smart Hub to the Internet to the Lennox server.

- Wi-Fi (on/off)
- Wi-Fi Network

Touch **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.

Touch the **i** button for additional information about a particular network (name, SSID, security, RSSI, etc.).

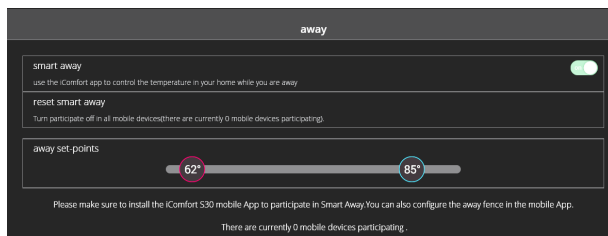
Touch a particular network ID to connect to that network. Enter password to connect.

A red "X" means that there is an issue with a connection point that must be resolved.

NAME SCREEN

- Enter system name (Home 1, Home 2, etc) using the keyboard tool

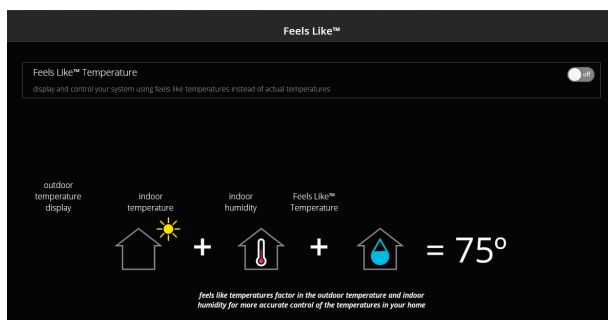
AWAY SETTINGS SCREEN



Controls the temperature in the home while away.

- Smart Away™ On/Off (use the iComfort mobile app to control temperature in the home while away)
- Reset Smart Away (turns off all mobile devices)
- Away Setpoints
(60 to 90°F, default is **62°F heating and 85°F cooling**)

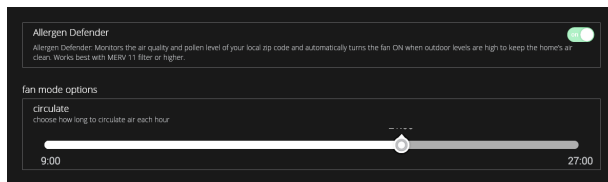
FEELS LIKE SCREEN



Accurately controls temperature in the home by determining the "feels like" temperature based on outdoor temperature, indoor temperature plus indoor relative humidity.

- On/Off

FAN SCREEN



- Allergen Defender (cleaning air)

Allergen Defender operates the indoor blower during times of reported high pollen levels. Wi-Fi connection is required.

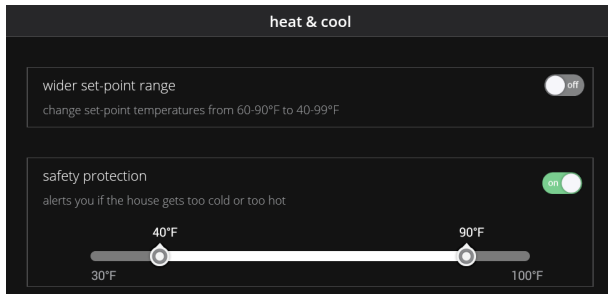
Set how long to circulate the air each hour.

- Circulate
(18 to 54 minutes, default is **20 minutes**)

FEATURES

USER SETTINGS

HEAT/COOL SCREEN



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

Depending on system mode setting, **heat/cool**, **heat only** or **cool only** is displayed in the User Settings.

Perfect Temp

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)

Auxiliary Heat (Heat Pump Systems Only)

- On/Off
- Allows auxiliary heat operation if temperature drops below set balance point
(-20 to 75°F, adjustable)

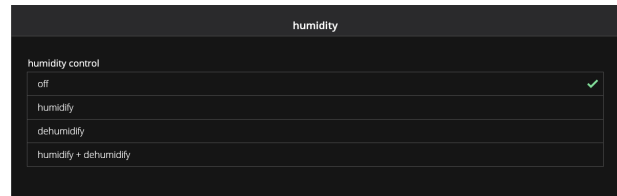
Selecting **Auxiliary Heat** displays a slider to adjust balance point levels.

Safety Protection

- Safety Protection
(30 to 50°F, adjustable)

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

HUMIDITY SCREEN (Humidity Control)



- Off (default)
- Humidify
 - Normal, Max, Dewpoint
- Dehumidify
 - Normal, Max
 - Dewpoint (on/off)
- Humidify + Dehumidify

Dewpoint setting is only available with remote Outdoor Temperature Sensor. Sensor is furnished as standard with iComfort® Communicating outdoor units, optional for conventional units (-15 to 15%, adjustable, default is **0%**).

Humidification Control Center

normal 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

normal 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.

- Humidification Setpoint
(15 to 45% relative humidity, adjustable, default 40%)
- Dehumidification Setpoint
(40 to 60% relative humidity, adjustable, default 50%)
- Overcooling Setpoint (Max only)
(0 to 4°F, adjustable, default 2°F)
- Humidification (left slider) + Dehumidification (right slider) Setpoint
(15% to 60%, adjustable, default 15% humidification and 40% dehumidification)

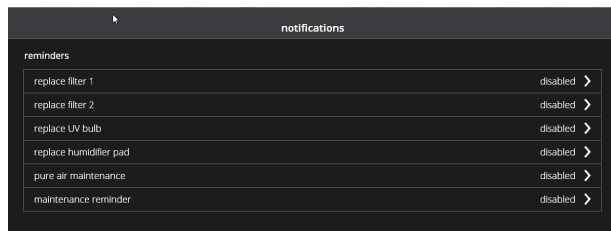
Adjustable sliders allows Dehumidification/Humidification/Overcooling Setpoint adjustment.

Depending on humidity/dehumidity mode settings selected not all settings above may be visible.


FEATURES

USER SETTINGS

NOTIFICATIONS (REMINDERS) SCREEN



- Replace Filter 1
- Replace Filter 2
- Replace UV Bulb
- Replace Humidifier Pad
- PureAir™ Maintenance
- Maintenance Reminder Settings
 - Disabled (default for all notifications)
 - 3, 6, 12, 24 Months or Custom date
 - Set for Calendar Time or Runtime

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

ADVANCED SETTINGS (INSTALLER SETTINGS)


See page 22

GENERAL SCREEN




- About
 - Thermostat Information
 - Control Model Number
 - Control Serial Number
 - Control Software Revision
 - Software Revision
 - Last Updated
 - Control Hardware Revision
 - Software Update
 - Automatic Updates (on/off)
 - Check for Updates Now Button
 - Smart Hub
 - Control Model Number
 - Control Serial Number
 - Control Hardware Revision
 - Control Software Revision
 - Software Revision
 - Last Updated
 - Software Update
 - Automatic Updates (on/off)
 - Check for Updates Now Button


- Dealer Information
 - Name
 - Country/Region
 - Address 1
 - Address 2
 - City
 - State
 - Zip/Postal Code
 - Phone
 - Email
 - Website

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


- Dealer Access
 - Remote View (on/off)
 - Remote Control (on/off)
 - Alerts and Notifications (on/off)


 Homeowner can allow/disallow dealer access to system information, alerts and notifications, and remote control of the system for troubleshooting, etc.

- Screen Lock (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)

 Lock icon on Home Screen indicates a locked or partially locked screen. To unlock, touch and hold the lock icon for 5-6 seconds.

- Date & Time
 - 12 or 24 Hour setting
 - Daylight Savings - Enabled or Disabled
 - Time Zone
 - Set Time
 - Set Date

 Time and date can be set using the **set time/date** tool.

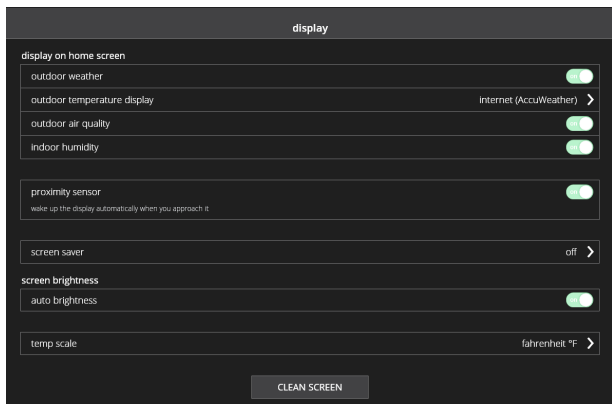
 Setting date and time is disabled if there is a wi-fi connection to the thermostat.

- Language
 - English (default)
 - French
 - Spanish

FEATURES

USER SETTINGS

DISPLAY SCREEN



Change display settings.

- Display on Home Screen
 - Outdoor Weather (on/off)
 - Outdoor Temperature Display
 - Internet (Accuweather)
 - Sensor
 - Outdoor Air Quality (on/off)

Wi-Fi must be enabled to receive weather provider information.

The default outdoor temperature is supplied by the Outdoor Air Temperature Sensor or the Wi-Fi data connection. The outdoor sensor is optional.

- Indoor Humidity (on/off)
- Proximity Sensor (on/off)

Proximity sensor turns on the display backlight at a specific distance.

- Screen Saver (on/off)
 - Off
 - Weather (animated)
 - Power Save
 - Logo (displays the Lennox logo)

Weather displays the current weather conditions screen.

Power Save displays a blank screen until the screen is touched or the proximity sensor is activated.

- Screen Brightness
 - Auto Brightness (on/off)

If **Auto Brightness** is turned off a slider appears to manually adjust the brightness of the display.

- Temp Scale
 - Fahrenheit °F
 - Celsius °C
- Clean Screen
 - 30 Second Countdown timer without affecting settings

HOME INFO SCREEN



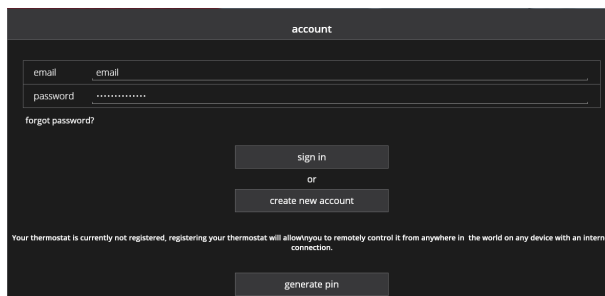
- Home Name
- Country/Region
 - United States
 - Canada
 - Australia
- Address
- Address 2
- City
- State
- Zip/Postal Code

Input home information using the keyboard tool.

- Remove Home Button

Remove Home button deletes the information for a home.

ACCOUNT SCREEN



Enter email and password to sign into account, recover a password, create a new account or generate a PIN number to link the Smart Hub with the account and any mobile Apps.

- New Account
 - Enter homeowner's information, email and set password information
 - Allow dealer to receive service alerts and remotely troubleshoot the system (checkbox)
 - Lennox End License user Agreement (EULA) (checkbox)
- Create Account Button
- Generate Pin Button

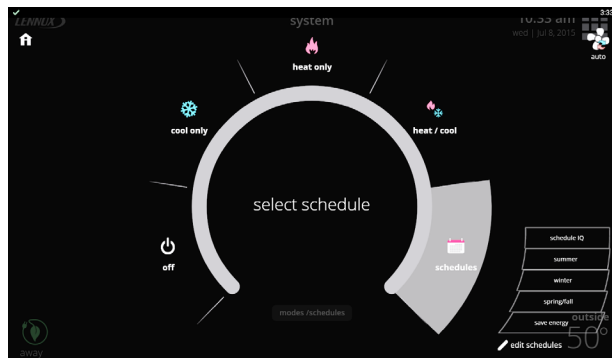
Generate Pin button allows registering at the Homeowner Remote Access website.

Registration is completed on the thermostat after establishing a wireless connection.

FEATURES

USER SETTINGS

SCHEDULES SCREEN



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

Touch **Modes/Schedules** on the Home Screen to access the **schedules** screen.

Touch **schedules** to see available schedules. Select a schedule to run it.

Touch **edit schedules** to change settings.

- Schedule IQ™
- Summer
- Winter
- Spring/Fall
- Save Energy
- Edit Schedules

Touch **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 iComfort® E30 mobile App. Multiple Apps on multiple devices can control one system.

EDIT SCHEDULES SCREEN



Touch a schedule at the top of the screen to edit individual schedules.

Adjust individual times and temperatures for the day.

- Time (4 time periods per day)

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

Touch each time period and select **delete period** if you want to remove a time period. You can remove all time periods except one if desired.

- Individual Sliders to adjust cooling and heating temperatures for each time period (*Adjustable 60 to 90°F*)
- Day Options Button
 - Individual Days (Monday, Tuesday, etc.)
 - Week/Weekend (Monday-Friday and Saturday-Sunday)
 - All Days

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

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

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

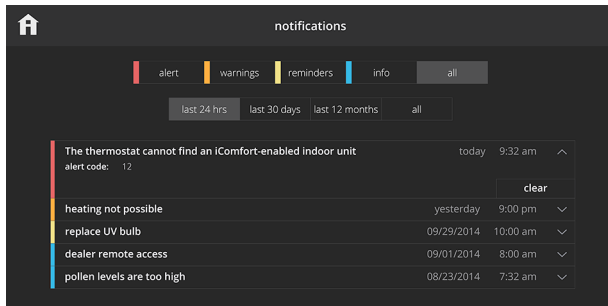
- Select Mode Button
 - Heat/Cool
 - Heat Only
 - Cool Only
- Fan Button
 - On
 - Auto
 - Circulate
- Rename

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

FEATURES

USER SETTINGS

NOTIFICATIONS SCREEN



Alerts homeowner of critical and required service or maintenance issues.

- Critical (Red Alert) - Displays information that service is required for a major system component as soon as possible
- Warnings (Orange Alert) - Displays information about system operation
- Reminders (Yellow Alert) - Displays required maintenance information (filter replacement, humidifier pad replacement, UV light replacement, PureAir™ Air Purification System servicing and Maintenance)

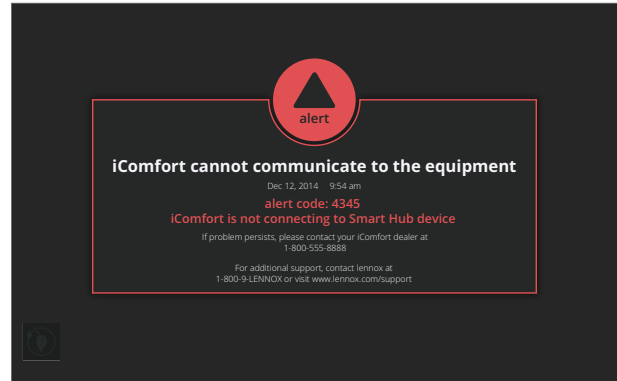
Reminders may include additional information such as the Lennox model number, order number, filter size, etc. for a replacement item.

- Info (Blue Alert) - Displays information about dealer access, Wi-Fi status, new devices found, software updates and additional useful information and tips to operate the system efficiently
- All - Displays all notifications
- Filter results by a specific time
 - Last 24 Hours
 - Last 30 Days
 - Last 12 Months
 - All results

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

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

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



Any alert notifications will also “pop up” on the Home Screen.


FEATURES

INSTALLER SETTINGS


SYSTEM DISCOVERY SCREEN



After power is applied to the thermostat for the first time, it displays the iComfort® "splash screen".

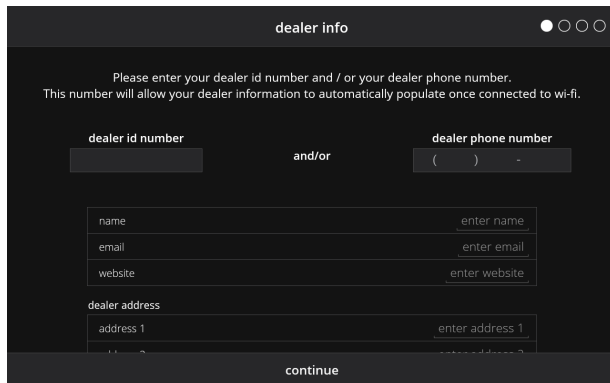
 NOTE - Immediately after the Splash Screen is displayed the Apple HomeKit WAC screen is displayed. See page 27.

During the setup process, alerts may be displayed to inform the installer of any information that affects the setup process.

 If **critical low battery** is displayed, the system will automatically start charging the HD display internal battery. Charging takes approximately 3-10 minutes.


The setup process involves up to four steps depending on the equipment included in the system.

1 - DEALER INFORMATION SCREEN

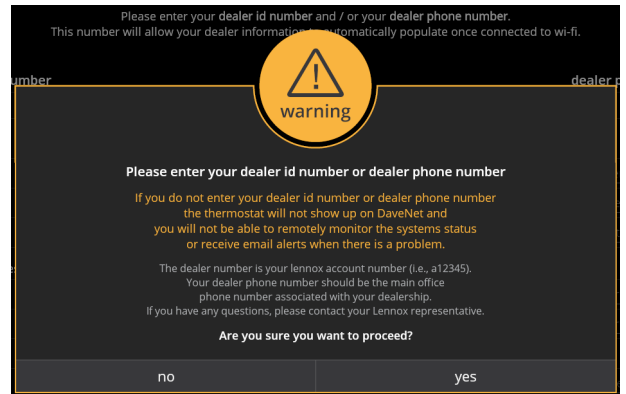


Dealer inputs their dealer number and/or phone number. Once the thermostat is connected to a Wi-Fi network the rest of the information will be automatically populated.

- Dealer Information
 - Name
 - Email
 - Website
- Dealer Address
 - Address 1
 - Address 2
 - City
 - State
 - Zip/Postal Code

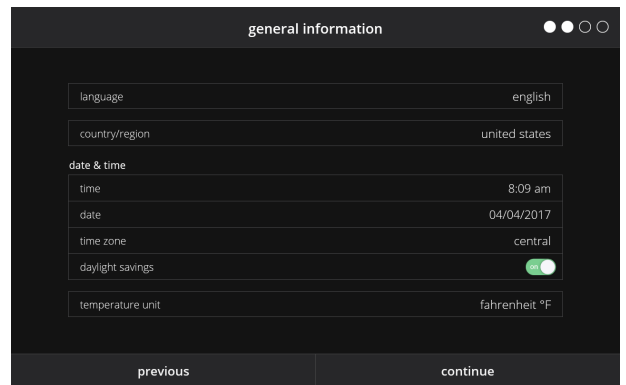
 Installer can also use the keyboard tool to manually input dealer information before a wireless connection is established.

DEALER ID/PHONE NUMBER WARNING SCREEN



NOTE - If the installer does not input a dealer number or phone number, a warning screen pops up warning that this thermostat will not be visible on the LennoxPros® website and that the dealer will not be able to remotely monitor this system or receive email alerts.

2 - GENERAL INFORMATION SCREEN

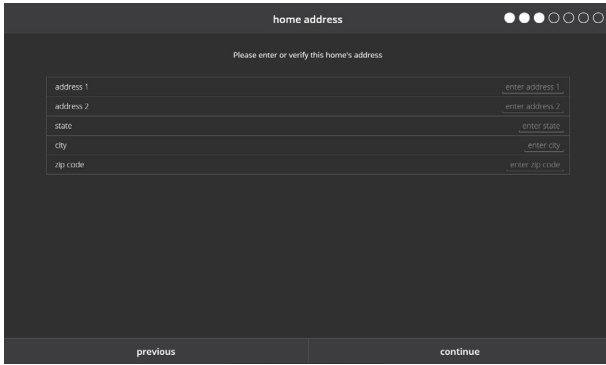


- Language
 - English (default)
 - Français
 - Español
- Country/Region
 - United States
 - Canada
 - Australia
- Time
- Date
- Time Zone
 - Pacific
 - Mountain
 - Central
 - Eastern
- Daylight Savings - On/Off
- Temperature Unit
 - Fahrenheit
 - Celsius

FEATURES


INSTALLER SETTINGS

3 - HOME ADDRESS SCREEN



Enter the information for the home that this thermostat is installed in.

- Address 1
- Address 2
- State
- City
- Zip/Postal Code


 Use the keyboard tool to manually input this information.


EQUIPMENT FOUND SCREEN




A visual representation of the equipment in the system.

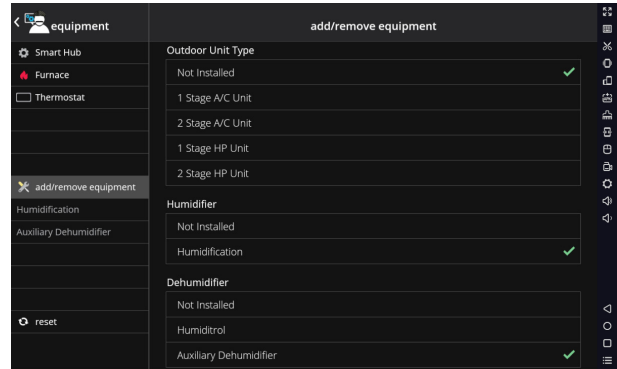
NOTE - The Outdoor Unit Type must be manually configured by the installer!

 Depending on jumper settings on the Smart Hub, the indoor unit will appear as EIM-Furnace or EIM-Air Handler.

 Touch the **+/-** icon at the upper-right of the screen to add additional equipment.

 After equipment has been added it will also appear on the Equipment Found Screen.

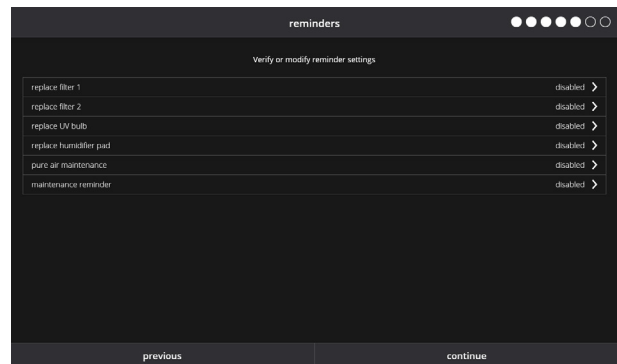
4 - ADD / REMOVE EQUIPMENT SCREEN



Add equipment to the system to be controlled by the thermostat.


- Outdoor Unit Type
(Not Installed, 1 Stage AC Unit, 2 Stage AC Unit, 1 Stage HP Unit, 2 Stage HP Unit)
- Outdoor Unit Capacity
(18 to 60 kBtuh, default is 36 kBtuh)
- Outdoor Unit 1st Stage Capacity
(Two Stage Outdoor Units only)
(30 to 100 kBtuh (default is 70 kBtuh)
- Humidifier
(Not Installed, Humidification)
- Dehumidifier
(Not Installed, Humiditrol, Auxiliary Dehumidifier)

5 - REMINDERS SCREEN



Set reminders for maintenance items.

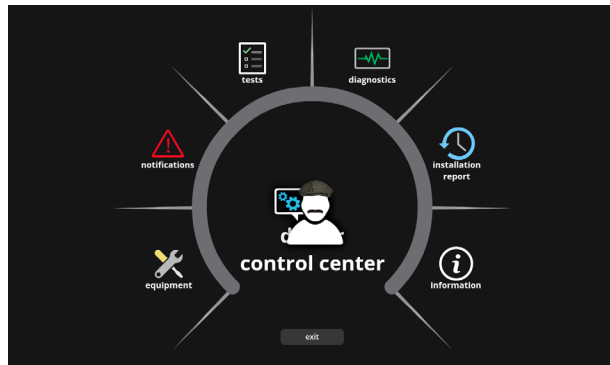
- Replace Filter 1, Replace Filter 2
- Replace UV Bulb
- Replace Humidifier Pad
- PureAir™ Maintenance
- Maintenance Reminder Settings
 - **Disabled** (default for all notifications)
 - 3, 6, 12, 24 Months, Custom date or Runtime

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

FEATURES

INSTALLER SETTINGS

CONTROL CENTER SCREEN



Provides access to the dealer for performing various functions.

- Equipment Settings
- Notifications
- Tests
- Diagnostics
- Installation Report
- Information
- Exit Button (returns to Home Screen)



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

EQUIPMENT

Smart Hub

(About)

- 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 Device List
- Application Code Memory Size
- Microcontroller Part Number

(Adjustable Settings)

- Equipment Name (Keyboard tool)
- Temp Reading Calibration (-5 to 5°F , default is 0°F)
- Humidity Reading Calibration (-10 to 10% RH, default is 0%)
- Smooth Setback Recovery (**Enabled/Disabled**)

Air Handler

Electric Heat Control Mode (**Standard/Evenheat**)
Evenheat Discharge Temperature (if selected)
(85 to 130°F , default is 85°F)

- Cooling Mode (**Normal, Comfort**)
 - If Cooling Mode is set for Comfort these adjustments are available:
 - Comfort Cooling - Minimum Stage Runtime (30 to 600 seconds, default is 180 sec)
 - Modulating Cooling Steady State PI Gain (**Standard**)
 - Less Aggressive
 - **Standard**
 - More Aggressive
 - Modulating Cooling Step Change PI Gain (**Standard**)
 - Less Aggressive
 - **Standard**
 - More Aggressive
 - Modulating Cooling Cycles Per Hour ($3 - 6$, default is 4)

Heat Pump/Furnace

Balance Point Control (**Enabled/Disabled**)
High Balance Point (Furnace or Electric Heat)
(-17 to 75°F , default is 50°F)
Low Balance Point (Heat Pump Heating)
(-20 to 72°F , default is 25°F)

- Temperature Control Mode (Feels Like) (**Normal, Comfort**)
 - **Normal** - Feel Like (single setpoint) is off.
 - **Comfort** - Feel Like (single setpoint) is on.
- Wall Insulation (**poor, average, good**) (default is **good**)
- Single Setpoint Mode (Enabled/**Disabled**)
 - Single Setpoint Mode is the same as **Perfect Temp** on the User Screen (Heat & Cool).
 - SSP Heating Cancel Coast Increment Slope (0.0 to 0.75°F , default is 0.25°F)
 - SSP Heating Cancel Coast Decrement Slope (0.25 to 2.0°F , default is 0.5°F)
 - SSP Cooling Cancel Counter Increment Slope (-0.75 to 0.0°F , default is -0.25°F)
 - SSP Cooling Cancel Counter Decrement Slope (-2.0 to -0.25°F , default is -0.5°F)
 - SSP Heating Lockout Outdoor Temp (50.0 to 80.0°F , default is 70°F)
 - SSP Cooling Lockout Outdoor Temp (30.0 to 60.0°F , default is 40°F)
 - Auto Changeover – Temp Deadband (3 to 9°F , default is 3°F)
 - Max. Heat Setpoint (40 to 90°F , default is 90°F)
 - Min. Cool Setpoint (60 to 99°F , default is 60°F)
 - Heat Cool Stages Locked In (**Enabled/Disabled**)
 - 1st Stage Differential (0.5 to 3.0°F , default is 1.0°F)
 - 2nd through 6th Stage Differential (0.5 to 8.0°F , default is 0.5°F)


FEATURES

INSTALLER SETTINGS

EQUIPMENT (continued)

Smart Hub (continued)

- Staged Delay Timers (**Enabled/Disabled**)
 - 2nd through 6th Stage Delay (5 to 120 min. in 5 min. increments, default is 20 min.)

 Number of heating stages shown depends on equipment installed. Electric heat is staged at every 2 elements.

- Min Dehumidification Setpoint (40 to 60°F, default is 40°F)

Humiditrol


Humiditrol Comfort Adjust (**Maximum, Midpoint or Minimum Overcooling**)

Humidifier

Max. Humidification Setpoint (15 to 45% RH, default is 45%)

Auto Changeover Humidification Deadband (5 to 10% RH, default is 5%)

- Outdoor Temperature Reading Calibration (-10 to 10°F, default is 0)
- Auto Dehumidification Overcooling Threshold (0 to 10°F, default is 4)
- Severe Weather Protection (**enabled/disabled**)
- Heat Alert Temperature (80 to 100°F, default is 90°F)
- Freezing Alert Temperature (30 to 50°F, default is 40°F)
- Smart Alert Enable (**Disabled/Conservative/Medium/Aggressive, default is Medium**)

 Smart Alert monitors some of the following conditions:

- Thermostat setpoint.
- Temperature readings.
- If the temperature is moving away from setpoint or toward setpoint.
- Local climate design temperatures.
- System run times.


Smart Alert Settings

Disabled setting no monitoring of Smart Alert


Conservative delayed setting to display any Smart Alert messages.

Medium (Default)

Aggressive setting will shorten time to display any Smart Alert messages.

 NOTE - Depending on type of system (conventional heating/cooling or heat pump system) and optional equipment not all system settings will be displayed.

- Group ID (0 to 9 groups) (default is 1)

 Group ID is used to group two or more thermostats in the same home to allow communication between them.

Furnace

(About)

NOTE - All furnace "About" information is supplied by the Smart Hub and not the furnace itself.

- Unit Model Number
- Unit Serial Number
- Control Serial Number
- Control Hardware Revision
- Control Software Revision
- Protocol Revision Number
- Language Support (English Only)
- Device Product Level
- Application Code Memory Size
- Control Model Number
- Compatible Devices List
- Microcontroller Part Number
- Equipment Type name
- Number of Heating Stages
- Heating Capacity by Stage
- Unit Nominal Capacity
- Discharge Air Temp Sensor
- Outdoor Air Temp Sensor

Air Handler

(About)

NOTE - All air handler "About" information is supplied by the Smart Hub and not the air handler itself.

- Unit Model Number
- Unit Serial Number
- Control Serial Number
- Control Hardware Revision
- Control Software Revision
- Protocol Revision Number
- Language Support (English Only)
- Device Product Level
- Application Code Memory Size
- Control Model Number
- Compatible Devices List
- Microcontroller Part Number
- Equipment Type Name (Air Handler)
- Number of Heating Stages
- Heating Capacity by Stage
- Unit Nominal Capacity
- Discharge Air Temp Sensor
- Outdoor Air Temp Sensor

FEATURES

INSTALLER SETTINGS

EQUIPMENT (continued)


Thermostat

(About)

- Control Model Number
- Control Serial Number
- Control Software Revision
- Control Hardware Revision
- Language Support
- Equipment Type Name (Thermostat)
- OS version
- Protocol Revision Number


(Adjust 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)
- Display Air Quality (on/off)
- Outdoor Temperature Source
 - Off
 - Internet
 - Sensor
- Display Indoor Humidity (on/off)
- Screen Saver (on/off)
 - Off
 - Weather
 - Power Save


 **Weather** displays the current weather conditions screen.

Power Save displays a blank screen until the screen is touched or the proximity sensor is activated.

Auto Brightness (on/off)

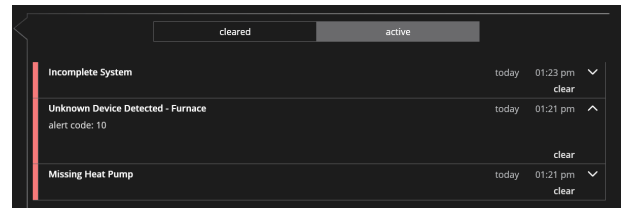
 If **Auto Brightness** is turned off a slider appears to manually adjust the brightness of the display.

- Brightness Value (*0 to 100%, default is 80%*)
- Proximity Control (on/off)

 Proximity sensor turns on the display backlight at a specific distance.

- Wide Setpoint (on/off)
- Reset Thermostat (factory default settings)

NOTIFICATIONS SCREEN



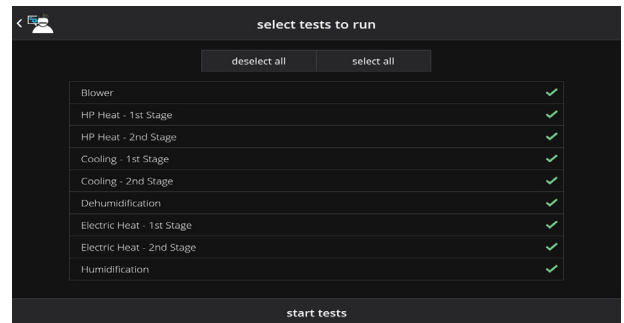
Provides information for active and previous notifications. When selecting either a cleared or active notification a brief description and alert code will be displayed.

Notifications are categorized by Smart Hub, Air Handler or Furnace, Air Conditioner or Heat Pump and the iComfort® E30 smart thermostat.

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

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


TESTS SCREEN



A variety of system tests can be performed by the installer.

Various tests are available depending on equipment in the system. By default all items to be tested are enabled.

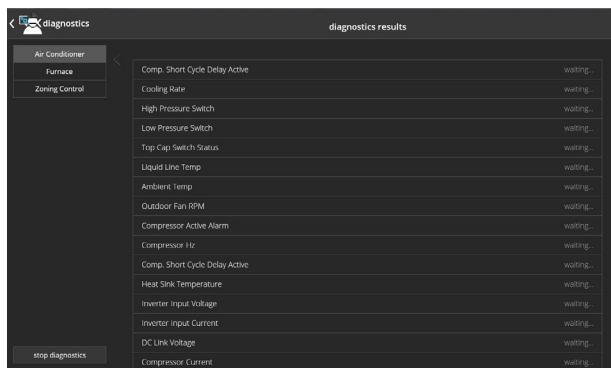
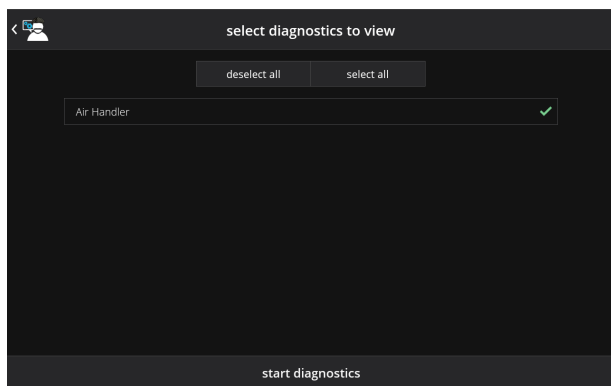
• Select Tests to Run

 Selecting a specific test will uncheck the item. When a specific set of tests are completed the results will be displayed on the screen next to the tested item. Touch and scroll to see all tested items. Touch **Continue** to advance to the next test.

FEATURES

INSTALLER SETTINGS

DIAGNOSTICS SCREEN



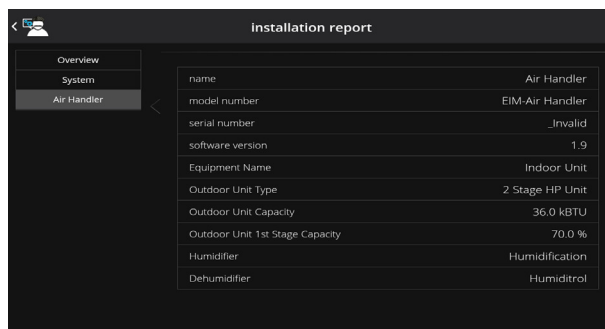
Allows the installer to test indoor unit for a variety of conditions.

- Select Diagnostics to View
 - Deselect All
 - Select All

Touch each equipment row to select or deselect before running diagnostics. A checkmark appears if selected.

Touch **start diagnostics** to start testing. Touch **stop diagnostics** to pause diagnostics. Touch the different equipment buttons on the left side of the screen to view the individual equipment results.

INSTALLATION REPORT SCREEN



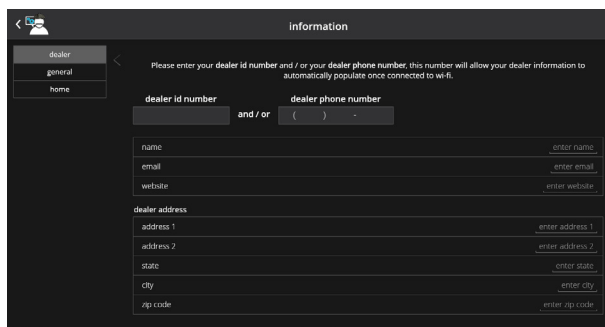
Displays various parameters and settings for the system, system and indoor equipment at the time of installation.

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.

INFORMATION SCREEN



View and edit the dealer information, general information and home information screens. Also see page 21.

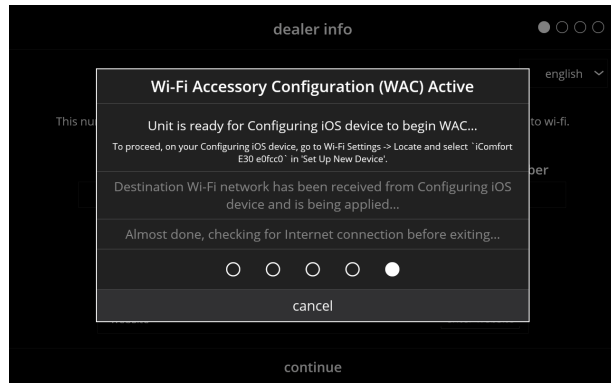
- Dealer
- General
- Home

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

FEATURES

INSTALLER SETTINGS

APPLE HOMEKIT SETUP

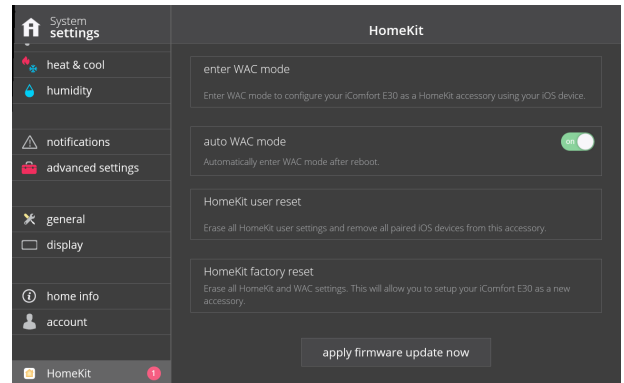


After power is applied to the thermostat for the first time, it displays the iComfort® “splash screen” (see page 21), then the Wi-Fi Accessory Configuration (**WAC**) Active screen for configuring the IOS device will appear on top of the dealer info setup screen.

There are three options available for Wi-Fi Accessory Configuration Setup and HomeKit pairing:

1. Out of the Box Setup Procedure during Thermostat Commissioning.
2. Out of the Box Setup Procedure after Thermostat Commissioning.
3. HomeKit Manual Setup.

HOMEKIT SCREEN



- Enter WAC Mode
- Auto WAC Mode (**on/off**)
- HomeKit User Reset (**yes/no**)
- HomeKit Factory Reset (**yes/no**)
- Apply Firmware Update Now

Enter WAC Mode
Changing to a new wireless access point or updating the existing wireless access point password.

Auto WAC Mode
Displays if the thermostat has never been connected to the home's wireless access point or a HomeKit Factory Reset was initiated. Default is ON.

HomeKit User Reset
Allows homeowner to remove any existing Apple HomeKit user settings and paired iOS devices. The thermostat retains Wi-Fi connection settings. This option will only appear if the thermostat has already been added to a user's iCloud account.

HomeKit Factory Reset
Allows homeowner to remove any existing thermostat Wi-Fi settings, Apple HomeKit user settings and paired iOS devices.

Apply Firmware Update Now
If visible, indicates there is a firmware update required.

See the User Guide for additional information about setup.

ENERGY SAVINGS

SAVE ENERGY



NOTE - For California residents only.

- Energy Savings feature is currently a feature requirement for the State of California
- Enrolling into the energy saving program allows the user's utility company to control the thermostat during peak energy events
- An icon on the home page will indicate when the system is in an active energy savings event

ENERGY SAVINGS ENROLLMENT

- Enrollment is a two-step process for consumers
 1. User 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 Load Event Active Setpoints:
 - Default
 - Offset
 - Custom Setpoints
 - Peak Price Event Threshold
- Peak Price Event Active Setpoints:
 - Default
 - Offset
 - Custom Setpoints
 - Energy Savings Event Filter
- Energy Savings Settings Factory Reset (resets all parameters to factory settings and cancels enrollment)



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

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

NOTE - See the iComfort® E30/S30 User Guide for additional information about enrolling in the Energy Savings program and thermostat settings available.

REVISIONS

Sections	Description of Change
Document	New subbase added for High-Definition Display
Dealer Dashboard	Updated to new Service Dashboard.



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Contact us at 1-800-4-LENNOX

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