P R O D U C T   S P E C I F I C A T I O N S

iComfort®

So simple. So smart. So comfortable.

The **iComfort Wi-Fi® Thermostat** recognizes and connects to all iComfort®-enabled products to automatically configure and control the heating/cooling system (based on user-specified settings) for the highest level of comfort, performance and efficiency. Also recognizes model and serial number information for iComfort®-enabled products to simplify system setup.

Advanced iComfort® controls in specific heating and cooling units communicate information about various operating parameters to the thermostat to constantly maintain the most efficient operating conditions possible. Additional conventional (not iComfort®-enabled) 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.

Conventional outdoor units (not iComfort®-enabled) can easily be added and controlled by the **iComfort Wi-Fi® Thermostat**.

Conventional HVAC systems (not iComfort®-enabled) can be controlled by the **iComfort Wi-Fi® Thermostat** with the addition of the optional **iComfort® Equipment Interface Module (EIM)**.

Optional **iHarmony® Zoning System** (for specific HVAC systems) allows whole-home zoning (up to 4 zones) with complete control from the **iComfort Wi-Fi® 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.

One-Touch Away Mode - A quick and easy way to set the cooling and heating setpoints while away.

Weather-On-Demand - Live up-to-date weather data and five-day forecasts.

Easy to read 7 in. color screen (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.

Dealer Dashboard features online real-time monitoring of installed iComfort systems.

Serial communications bus (RSBus), with less wiring than a conventional heating/cooling system, allows system communication. Uses 4-wire, 18-gauge standard thermostat wiring.

Subbase (with terminal strip) and all necessary mounting hardware is furnished for easy installation.

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 sent via text message or e-mail.

EQUIPMENT WARRANTY

Five years in residential installations and one year in non-residential installations.

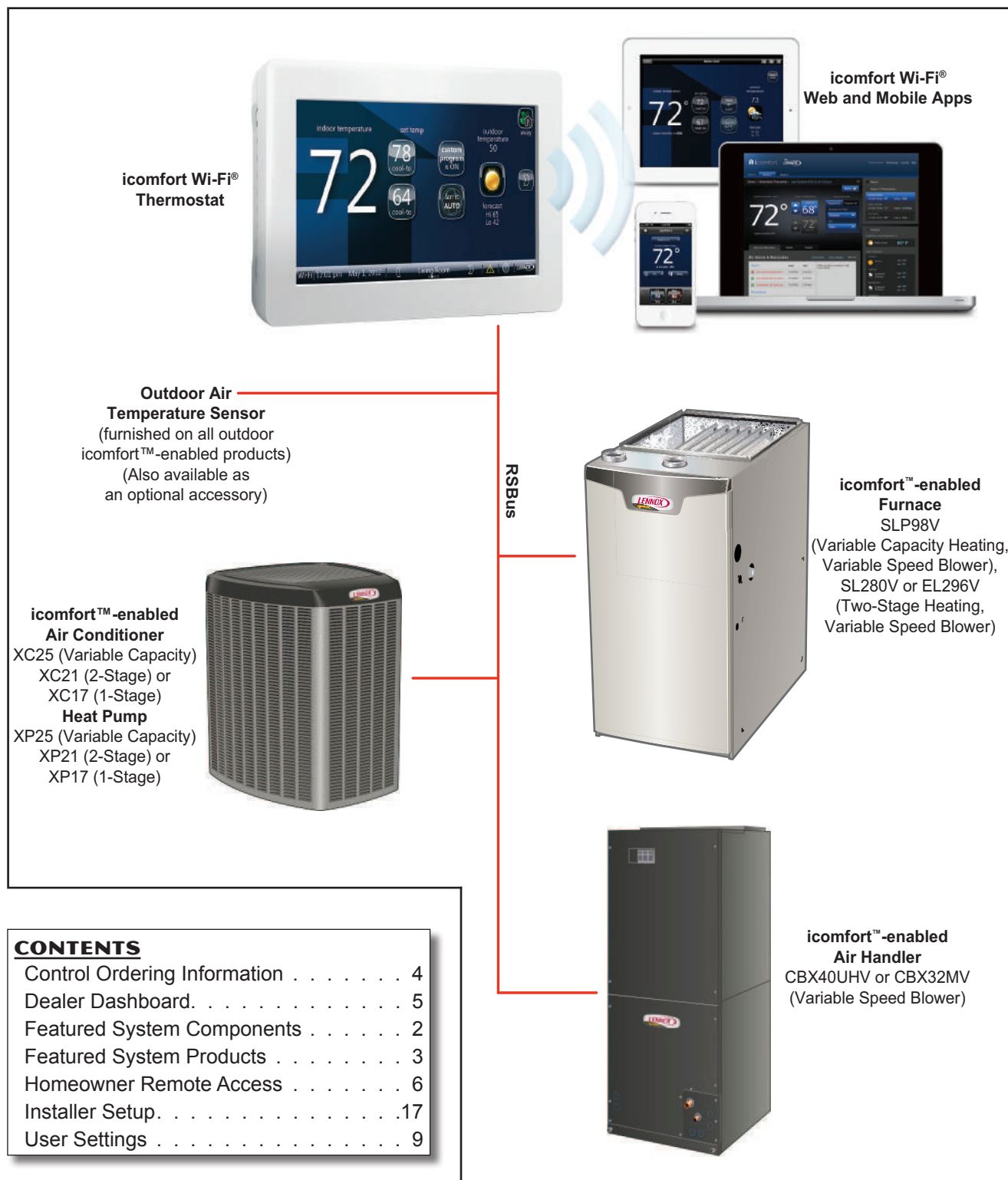Refer to Lennox Equipment Limited Warranty certificate included with unit for specific details.

FEATURED SYSTEM COMPONENTS

**icomfort Wi-Fi®
Thermostat**

**icomfort Wi-Fi®
Web and Mobile Apps**

**Outdoor Air
Temperature Sensor**
(furnished on all outdoor
icomfort™-enabled products)
(Also available as
an optional accessory)

RSBus

**icomfort™-enabled
Furnace**
SLP98V
(Variable Capacity Heating,
Variable Speed Blower),
SL280V or EL296V
(Two-Stage Heating,
Variable Speed Blower)

**icomfort™-enabled
Air Conditioner**
XC25 (Variable Capacity)
XC21 (2-Stage) or
XC17 (1-Stage)
Heat Pump
XP25 (Variable Capacity)
XP21 (2-Stage) or
XP17 (1-Stage)

**icomfort™-enabled
Air Handler**
CBX40UHV or CBX32MV
(Variable Speed Blower)

CONTENTS

System Type	iComfort Wi-Fi® Thermostat	Outdoor Unit Type (iComfort®-enabled Communicating or Non-Communicating)	[1] Indoor Unit Type (iComfort®-enabled Communicating)	[1] Indoor Unit Type (Non-Communicating) [2] Equipment Interface Module (EIM) Required
Air Conditioner	Required	Either type may be used	EL296V, SL280V or SLP98V Furnace	Most Furnaces
	Required	Either type may be used	CBX32MV or CBX40UH Air Handler	Most Air Handlers
Heat Pump	Required	Either type may be used	EL296V, SL280V or SLP98V Furnace	Most Furnaces
	Required	Either type may be used	CBX32MV or CBX40UH Air Handler	Most Air Handlers

[1] Indoor unit must contain the iComfort® control or optional Equipment Interface Module (EIM). A non-communicating outdoor unit may be used (but some system features will be reduced).

[2] Not for use with XC25 or XP25 outdoor units. Indoor unit must be factory iComfort®-enabled when iComfort Wi-Fi® thermostat is used with XC25 or XP25 outdoor units..

iComfort Wi-Fi® Thermostat

Large full color 7-in. touchscreen - no hidden buttons or doors.

Temperature and humidity control (humidify/dehumidify). Sophisticated control and scheduling.

Wi-Fi connectivity for remote temperature monitoring and adjustment via desktop PCs, laptops and apps for smartphones or tablets.

Also controls conventional (not iComfort®-enabled) products.

Dave Lennox *Signature*® Collection SLP98V Variable-Capacity, Variable-Speed Furnaces

Energy Star® qualified.

98% AFUE energy efficiency.

Variable-capacity operation.

Multi-position design.

iComfort®-enabled control.

Precise Comfort® technology.

AirFlex™ technology.

Fully insulated cabinet.

SureLight® Control delivers operation reliability.

Silicon nitride igniter.

Also available - SL280V and Elite® EL296V Two-Stage, Variable-Speed Gas Furnaces.

Dave Lennox *Signature*® Collection XC25 Variable Capacity Air Conditioners (SunSource®-Ready)

Energy Star® qualified.

Up to 26.00 SEER cooling efficiency.

iComfort®-enabled control.

Precise Comfort® Technology.

SilentComfort™ Technology.

Quiet operation, as low as 59 dB.

R-410A refrigerant.

Dependable and efficient variable capacity scroll compressor.

SmartHinge™ louvered coil protection.

Also available - XC21 Two-Stage or XC17 Single-Stage Air Conditioner (SunSource®-Ready).

Dave Lennox *Signature*® Collection XP25 Variable Capacity Heat Pumps (SunSource®-Ready)

Energy Star® qualified

Up to 23.50 SEER and 10.20 HSPF heating efficiency.

iComfort®-enabled control.

Precise Comfort® Technology.

SilentComfort™ Technology.

Quiet operation, as low as 58 dB.

R-410A refrigerant.

Dependable and efficient variable capacity scroll compressor.

SmartHinge™ louvered coil protection.

Also available - XP21 Two-Stage or XP17 Single-Stage Heat Pump (SunSource®-Ready).

Dave Lennox *Signature*® Collection CBX40UHV Variable-Speed Air Handlers

4-way multi-position design.

iComfort®-enabled control.

Variable-speed blower motor.

R-410A refrigerant compatible.

Automatic comfort control for lower, summertime humidity levels.

Anti-microbial drain pan resists the growth of mold and mildew.

Healthy Climate® MERV 16 high efficiency air filter factory installed.

Includes knock-out for easy installation of Healthy Climate® germicidal light.

Also available - CBX32MV Variable-Speed Air Handler.

iComfort® Equipment Interface Module (EIM)

Allows the iComfort Wi-Fi® Thermostat to be used with most non-communicating HVAC systems (24VAC).

The EIM emulates an iComfort®-enabled communicating indoor unit (with reduced communication features).

See the Equipment Interface Module (EIM) Product Specifications bulletin for additional information.
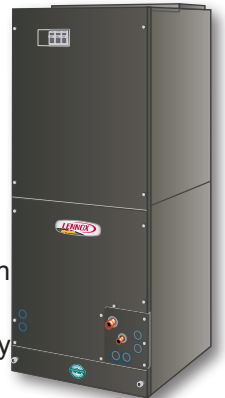
*ATTENTION - The Lennox iComfort Wi-Fi® Thermostat with Equipment Interface Module (EIM) will work with most 24VAC furnaces, air conditioners, air handlers and heat pumps (up to 3 stages of heat and 2 stages of cooling), **EXCEPT** it will NOT work with any brand of <u>communicating</u> HVAC equipment other than LENNOX®.*

CONTROL ORDERING INFORMATION

Description	Catalog No.
iComfort Wi-Fi® Thermostat Dimensions (H x W x D) - 5 x 7-1/2 x 1 in.	**10F81**
[1] Universal Bundle - iComfort Wi-Fi® Thermostat and Equipment Interface Module (EIM)	**99W24**
Equipment Interface Module (EIM) - For most non-communicating HVAC systems including dual-fuel capable non-communicating heat pumps	**10T50**
Equipment Interface Module (EIM) - For most non-communicating HVAC systems. **NOTE - Not for dual-fuel capable non-communicating heat pumps**	**99W23**
[2] Optional Outdoor Air Temperature Sensor	**X2658**
[3] Discharge Air Temperature Sensor	**88K38**

[1] The Universal Bundle is not for dual-fuel operation with a non-communicating heat pump outdoor unit.

[2] The Optional Outdoor Air Temperature Sensor may be used with an iComfort® 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-duel applications with a non-communicating heat pump outdoor unit.

[3] Required with Air Handler applications when using EVENHEATER® option. Optional on all other applications for service diagnostics.
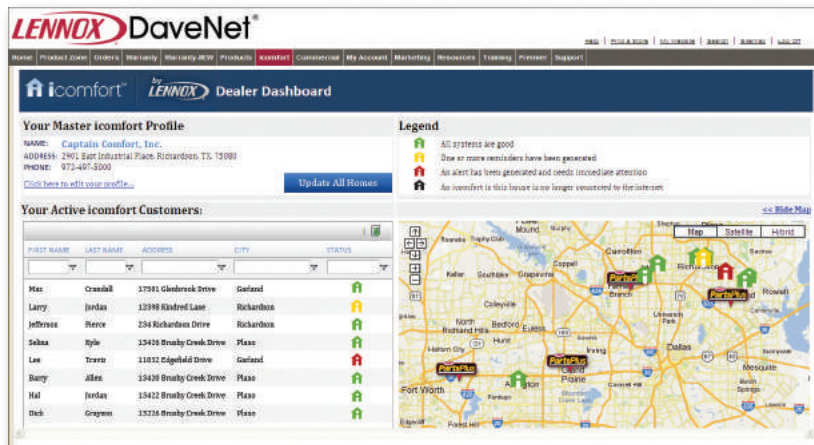
Displays an individual Lennox dealer's **iComfort Wi-Fi®
Thermostat** installations in one convenient location.

Accessible from the DaveNet® e-business website.

Your Master Dealer iComfort Profile

• Name

• Address

• Phone

Your Active iComfort Customers

A list of customers with installed iComfort Wi-Fi®
Thermostats, and their locations.

• Name

• Address

• City

• Status

Legend

• *All systems are good*

• *One or more reminders has been generated*

• *An alert has been generated and needs immediate
attention*

• *An iComfort in this house is no longer connected to
the internet*

> The list of installed customer's thermostats can be sorted
> (ascending and descending) by the different columns
> and can be filtered to only show locations currently
> sending an alert or reminder.

Map

• Interactive map shows all customer's locations and
the nearest Lennox PartPlus™ store locations

• Update All Homes Button pushes any updates to the
dealer's profile to all homeowner's thermostats on the
dealer's network.

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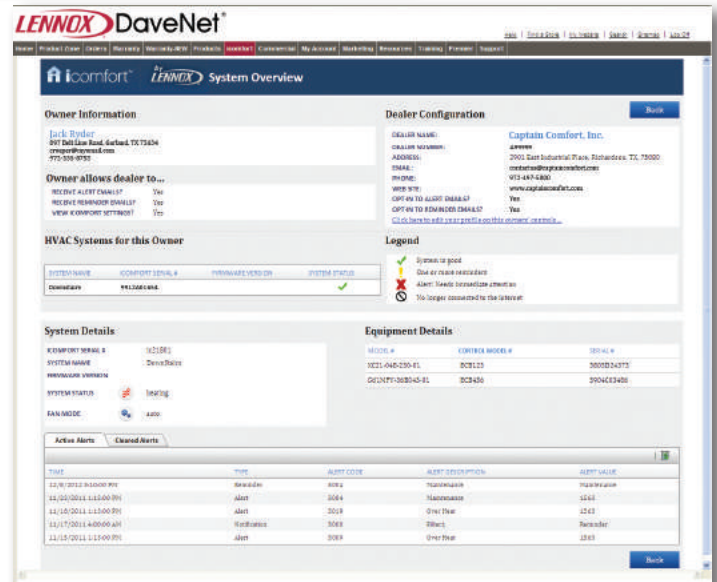
System Overview Screen

Owner Information

• Name, Address, E-Mail, Phone

Owner Allows Dealer To . . .

• Receive Alert E-Mails?

• Receive Reminder E-Mails?

• View iComfort Settings?

Dealer Configuration

• Dealer Information

> Using the Dealer Configuration area a Dealer
> can change Dealer Information displayed on the
> homeowner's iComfort Wi-Fi® Thermostat and on the
> Homeowner Remote Access website (see page 6).

HVAC Systems for This Owner

• List of owner's installed systems with Status

System Details

• Real time information of actual operating conditions
(heating, cooling, fan mode, etc.)

Equipment Details

• Installed iComfort®-enabled equipment details and
serial numbers

Active Alerts/Cleared Alerts Tab

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

HOMEOWNER LOGIN

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

Thermostat must be registered before logging into the Homeowner Remote Access Website (see page 13).
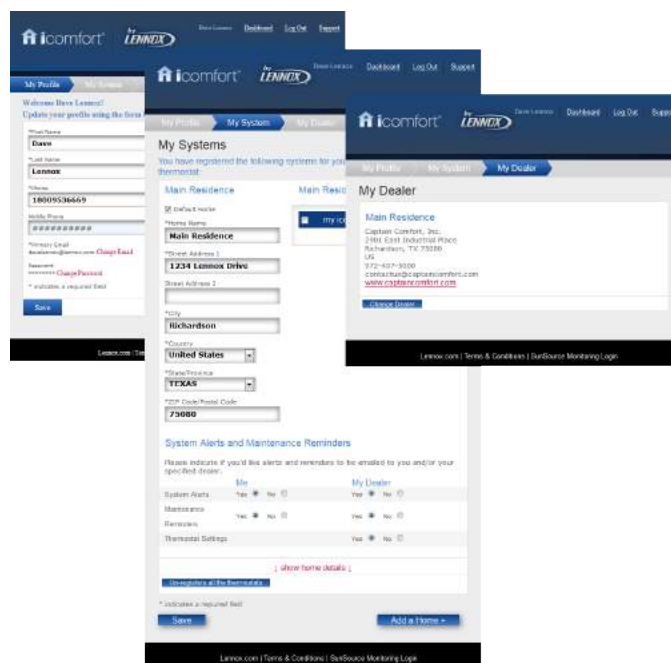

After logging in and creating a profile (**My Profile**), the homeowner can enter specific information for the iComfort Wi-Fi® Thermostat (single or multiple systems), set up multiple homes (**My System**) and specify what alerts and reminders they would like to receive (**My Dealer**).

The homeowner can control all iComfort Wi-Fi® Thermostats on the network remotely through the Website Dashboard.

Multiple iComfort Wi-Fi® Thermostat Control

- One home - one iComfort Wi-Fi® Thermostat
- Two or more homes - one iComfort Wi-Fi® Thermostat each
- One home - multiple iComfort Wi-Fi® Thermostats
- Two or more homes - multiple iComfort Wi-Fi® Thermostats
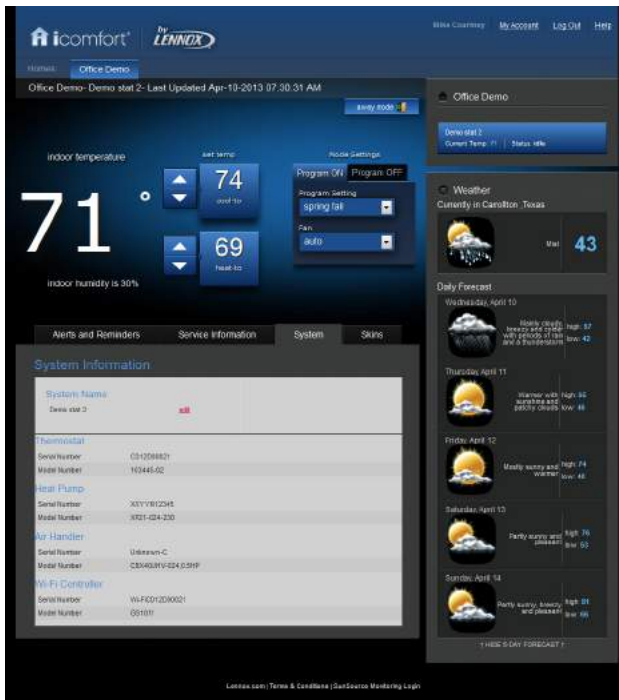
WEBSITE DASHBOARD

Remotely control any iComfort Wi-Fi® Thermostat on a home wireless network.

Accessible to the homeowner at:
www.myiComfort.com.

- Tabs at the top for different locations (Home 1, Home 2, etc.)
- Large display of current indoor temperature
- Current Indoor Relative Humidity
- Set Temperature
  - Adjust Cool-To or Heat-To temperature setpoints (Up/Down Arrow Buttons)
- Program ON Tab
  - Program Setting
    - Summer
    - Winter
    - Fall/Spring
    - Save Energy
    - Custom

> Homeowner can select Programs pre-set on thermostat but cannot remotely adjust individual settings within Programs.

-

- Program OFF Tab (manual settings)
  - Mode Settings
    - Cool Only
    - Heat Only
    - Heat or Cool
    - Off
    - Emergency Heat (heat pump)
  - Fan Settings
    - Auto
    - On
    - Circulate
- Away Mode Button
- Alerts / Reminders Tab
  - Current Alerts with Date and Time
- Service Information Tab
  - Dealer Information
  - Change Dealer Button
- System Tab
  - System Name and information about HVAC equipment
  - Zone Settings (for systems using the iHarmony® Zoning System.)
    - ON/OFF
- Skins tab
  - Upload Image
- Current Weather Conditions
- Local 5-Day Weather Forecast
  - Show/Hide 5-Day Weather Forecast

MY ACCOUNT SCREEN

- My Profile
  - Name
  - Phone Number
  - Mobile Phone Number
  - Primary E-mail (change e-mail)
  - Password (change password)
- My System
  - Home Name (default home checkbox)
  - Street Address, City, State, Zip/Postal Code
  - Alerts and Reminder Preferences
  - Home Details (show/hide)
    - Building size, number of floors, number of occupants, building style, number of bedrooms, age of building, utility company
- My Dealer
  - Change Dealer

MOBILE APPS

The free iComfort® app is available for use on iPhone®, iPad®, Android™ and Windows® 8 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.

Apple, the Apple logo, iPhone and iPad are trademarks of Apple Inc. registered in the US and other countries.

Android is a trademark of Google Inc. Use of this trademark is subject to Google permission.

Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

CUSTOM SCREEN SAVER (SKINS)

Any high quality image (*JPG format only, 800 x 480, 300 dpi for best resolution*) can be uploaded to www. myiComfort.com to change the appearance of the thermostat screen to match any color, pattern, design, or décor.

Turn on Screen Saver on the iComfort Wi-Fi® Thermostat

On the thermostat, touch the Arrow Button on the home screen to access the Features Screen, touch the Display Settings Button, touch the Screen Saver Button and select Skins. The image will appear after 30 seconds of inactivity. Touch the screen at any time to access the Home Screen controls.

USER SETTINGS

HOME SCREEN (Thermostat ON)

Temperature Settings

- Large display of current indoor temperature (*°F or °C*)

> ⑦ In Celsius mode only the Home Screen displays Celsius. All other thermostat settings displayed in Fahrenheit.

- Current cooling setpoint temperature Button (*cool-to*)
- Current heating setpoint temperature Button (*heat-to*)
- Raise / Lower temperature setting Arrows (*up / down arrows*) to set cooling or heating setpoints indefinitely

> ⑦ Touch either setpoint temperature button to display up / down temperature adjustment arrows.

> ⑦ Touching either Temperature Setting Arrows (up / down arrows) displays the Program Hold Screen. Preset 1, 2, 8, 24 hours or custom setting (date and time with Keyboard Tool). Set and hold the temperature for a preset or custom time period until the next time period setting. Cancel Button on Home Screen cancels the held setting.

> ⑦ Both setpoint temperatures are displayed if System is set to *Heat or Cool* mode.

System Status Button

- Manual Settings
  - Cool Only
  - Heat Only
  - Heat or Cool
  - Off (system is OFF)
  - Emergency Heat (if air handler or dual fuel system)
- Programs
  - Select or edit a program (See page 12)

> ⑦ Touch to select system operating mode menu.

Humidity Display

- Displays current indoor relative humidity

System Status Display (animated)

- System is Heating
- System is Cooling
- System is Cooling and Dehumidifying
- System is Dehumidifying
- System is Waiting (time delay)

Fan Button (animated)

- On
- Auto
- Circulate

Current Outdoor Temperature

- Displays current outdoor temperature in °F or °C

> ⑦ 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®-enabled outdoor units, optional for conventional units.

Weather Forecast Display

- Displays current weather forecast

> ⑦ Touch to display **5-Day Forecast** screen.

Arrow Button ⟨∑⟩

> ⑦ Touch to display **Features** screen (See page 10).

Enter Away Mode Button

> ⑦ Touch to display **Away Mode** screen (See page 16).

Wi-Fi Indicator

- Displays if Wi-Fi is enabled

> ⑦ Touch to display **Wi-Fi-Settings** Screen (See page 13).

Time and Date Display

- Displays current date and time

> ⑦ Touch to display **Clock Settings** screen (See page 11).

Service Alerts ⚠

- A red **Alert** indicates that service is required for a major system component as soon as possible
- A yellow **Alert** indicates required maintenance (filter replacement, humidifier pad replacement, UV light replacement, PureAir™ Air Purification System servicing and Maintenance)

> ⑦ Touch to display **Alerts** Screen (See page 12).

USER SETTINGS

Help Button ⊙

• Displays help information

⊙ Touch to display **Help** information. Touch the question mark over each feature for additional information.

LENNOX Logo Button

• Switches to Installer Mode (See page 23)

⊙ Touch and hold for 3 seconds to display **Installer Setup** screen (See page 23).

Lock Icon

• Indicates partially locked (allows temperature adjustment up or down for a selectable time) or fully locked (no adjustment)

⊙ To unlock, touch and hold the lock icon for 5-6 seconds.

FEATURES SCREEN

⊙ Touch any Button to display desired screen.

⊙ NOTE - The Zone Settings Button is only available when the iHarmony® is part of the complete system.

• Edit Program Button (see page 12)
• System Settings Button (see page 10)
• Display Settings Button (see page 11)
• Zone Settings Button (see page 15)
• Alerts Button (see page 12)
• Reminders Button (see page 12)
• Service Button (see page 16)
• Home Icon (lower-right, returns to Home Screen)

SYSTEM SETTINGS SCREEN

XP25

Heating Mode Button

• NORMAL
• COMFORT

Humidifier Control Buttons

• Humidifier is OFF
• Humidifier is ON (15 to 45% RH - default is 40%)

De-Humidifier Control Buttons

XC/XP17/21/25

• ClimateIQ™ Setting
  • DRY
  • MODERATE
  • HUMID

⊙ ClimateIQ™ - Select the humidity setting that matches your regional weather.

⊙ NOTE - ClimateIQ™ settings are only available for iComfort®-enabled outdoor units (XC17/XP17, XC21/XC21, XC25/XP25).

• Dehumidify (not shown)
  • OFF
  • MEDIUM
  • HIGH

⊙ NOTE - Dehumidify settings are only available for non iComfort®-enabled equipment.

• ON setting (40 to 85% RH - default is 50%)

⊙ Select the humidity level you want inside the home.

• Humidity Display is OFF/ON (on Home Screen)

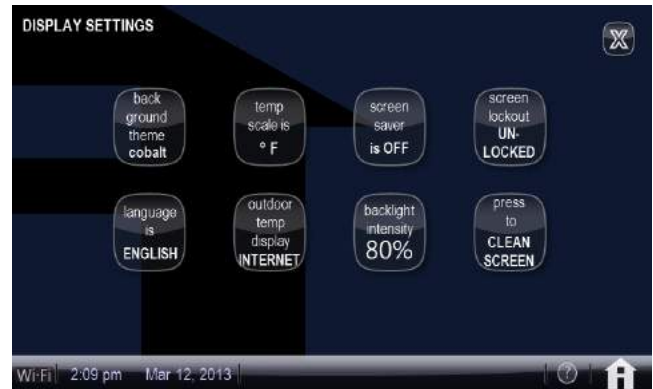## USER SETTINGS

CLOCK SETTINGS SCREEN

- Set current Time and Date
- Time Format (12 or 24 Hour)
- Daylight Savings Time (enabled/disabled)

DISPLAY SETTINGS SCREEN

Background Theme Button
- Cobalt
- Cotton
- Carbon

Temperature Scale Button
- Fahrenheit or Celsius

Screen Saver Button
- ON/OFF
- Skins

Screen Lockout Button
- Unlocked
- Partially
- Locked

Language Button
- English
- Français
- Español

Outdoor Temperature Display Button
- ON/OFF

Backlight Intensity Button
- Adjustable 20, 40, 60, 80, 100% (default 80%)

Clean Screen Button
- 30 Second Countdown timer without affecting settings

USER SETTINGS

WEATHER SCREEN

Displays local 5-Day Weather Forecast

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

EDIT PROGRAMS SCREEN

Select Programs Button

• Summer

• Winter

• Spring/Fall

• Save Energy

• Custom

  • Program will follow these settings for days selected

ⓘ Touch and hold button to change Program name.

Select Days Button

• All 7 Days

• Week/Weekend (Mon-Fri. and Sat-Sun.)

• Individual Days (Monday, Tuesday, etc.)

Program Setting Buttons

• Time (Adjustable in 15 minute increments)

• Cool-To (Adjustable in 1° increments)

• Heat-To (Adjustable in 1° increments)

• Fan Mode (On, Auto, Circulate)

ⓘ Touch and hold any time button to disable that period.

ALERTS SCREEN

Displays Alert History

• Alert Code

• Date and Time Alert occurred

• System Reports

Set Alert Button

• Last 24 Hours

• Last 30 Days

• Last 12 Months

REMINDERS SCREEN

Reminder Buttons

• Replace Filter 1

• Replace Filter 2

• Replace Humidifier Pad

• Replace UV Bulb

• Maintenance Reminder Required

• PureAir™ Maintenance Reminder Required

• Settings

  • Disabled

  • 3, 6, 12, 24 Months or Custom

ⓘ Custom Button accesses **Clock Settings Screen** to input custom date and time settings.

USER SETTINGS

WI-FI SETTINGS SCREEN
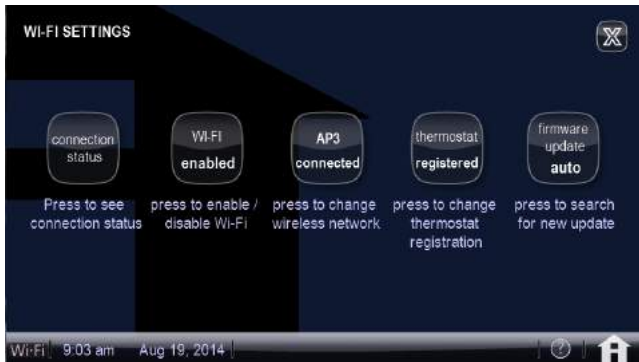
- Connection Status Button
- Wi-Fi Enabled Button (enabled/disabled)
- Network Settings Button (showing current network connection)
- Thermostat Registration Button (E-Mail)
- Firmware Update Button (auto/off)

> Touch Network Settings Button to access **Network Setting Screen**.

> Wi-Fi must be enabled for Registration and Firmware Updates.

CONNECTION STATUS SCREEN

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

- Router Button
- Internet Status Indicator
- Server Button

> iComfort Wi-Fi Thermostat supports wireless bands 802.11b, 802.11c and 802.11n

> Touch Router Button to access **Network Setting Screen** if not connected.

> Touch Server Button to access **Thermostat Registration** if not registered.

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

THERMOSTAT REGISTRATION

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

- Enter homeowner's e-mail address
- Enter the system description
- Touch Register Button
- A Registration e-mail is sent to the homeowner to access the Homeowner Remote Access website and setup the homeowner's account (see page 6)

USER SETTINGS

NETWORK SETTINGS SCREEN
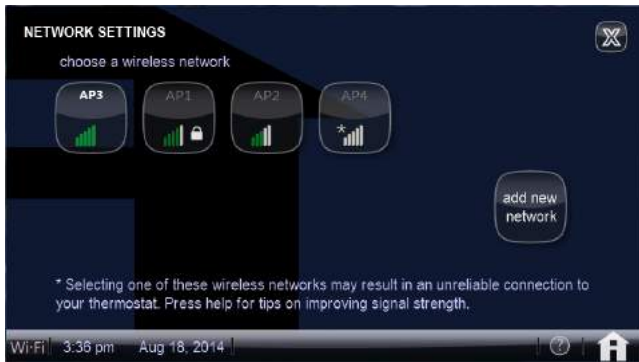
Displays available Wi-Fi Network Access Points

- Available Network Buttons
- Scan for Networks Button
- Add New Network Button

> Touch desired Network Button to connect to network, opens keyboard tool to input security key or passphrase.

NETWORK SETUP SCREEN

> Touch the Add New Network Button to open the network setup screen.

- Enter Network Name (SSID)
- Select security type (None, WEP, WPA, WPA2)
- Enter Password
- Touch Connect

USER SETTINGS

ZONING (IHarmony® ZONING SYSTEM)

NOTE - Zoning is only available for systems using the iHarmony® Zoning System.

System components include the iComfort Wi-Fi® thermostat, iHarmony® Damper Control Module (DCM), individual In-Zone Thermostats and Motorized Dampers.

NOTE - Single-stage outdoor units can only be used with two equal load zones when using the iHarmony Zoning System.
Variable capacity and two-stage outdoor units can utilize up to four zones when using the iHarmony zoning system.

⑦ See iHarmony Zoning System Product Specifications in section Zoning for additional information.

• Zoning Home Screen displays current zone settings for an individual zone

⑦ All Home Screen settings (Temperature, System Status, Programs, Fan, Away Mode, etc.) for an individual zone are the same as a system without zoning. See page 9.

• The current zone name is displayed at bottom of the screen

⑦ Touch left/right arrows by the zone name to switch between different Zoning Home Screens.
Touch the zone name to display Available Zones Screen.

AVAILABLE ZONES SCREEN

• Displays available zones and current zone temperatures

• Also displays individual zone cooling (blue) and heating (red) setpoints at top and bottom of each button

⑦ If a zone is set for only cooling or heating, only that setpoint will be displayed.

⑦ If Zone 1 (master) is set for Away Mode (on the Home Screen), Away Mode is enabled for the whole system (all zones) until canceled.

⑦ If zones 2, 3 or 4 are set for Away Mode on the Home Screen, the Away Mode icon appears at the lower-right of each zone button on the Available Zones Screen.

⑦ Touch any zone name to edit with the keyboard tool.

⑦ Touch the Zone Button to display individual settings for each zone (returns to the Zoning Home Screen or Away Mode screen, depending on settings).

FEATURES SCREEN - ZONE SETTINGS

• Touch the Arrow Button ⟩ on the Home Screen to access the Features Screen

• Touch the Zone Settings Button to access the Zone System Settings Screen
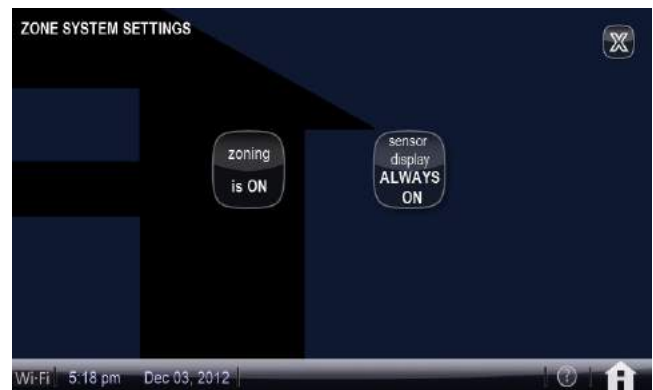
Zoning Button

• Zoning is ON

• Zoning is OFF

Sensor Screen Button

• ALWAYS ON

• POWER SAVE

USER SETTINGS

SERVICE SCREEN

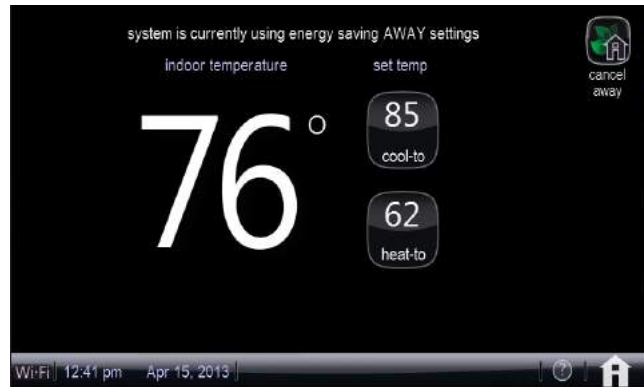**Displays Dealer Service Information**

- Dealer Name
- Dealer Address
- Dealer Phone
- Dealer E-mail
- Dealer Website
- Dealer Number

Touch any line to edit Dealer Information with keyboard tool.

Thermostat Info Button

- Model Number
- Serial Number
- Hardware Revision
- Software Revision

AWAY MODE SCREEN

Set Away Temperature Setpoints

Sets the thermostat for energy saving mode while away for an extended period of time.

System will only operate if indoor temperature falls below 62°F (for heating) or rises above 85°F (for cooling). Adjustable.

- Set cooling setpoint temperature Button (*cool-to*)
- Set heating setpoint temperature Button (*heat-to*)
- Cancel Away Mode Button

NOTE - Also see Available Zones Screen for additional information about Away Mode if zoning is used. See page 15.
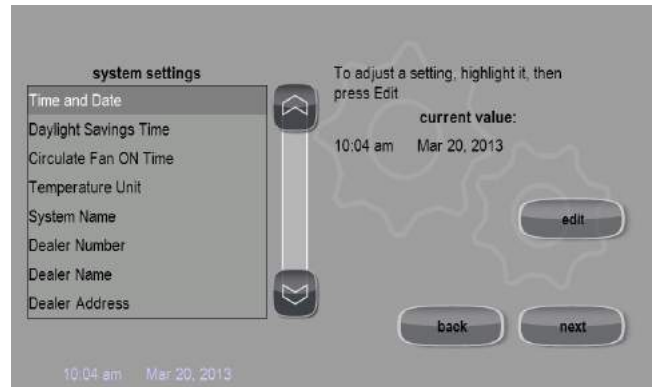
INSTALLER SETUP

SYSTEM DISCOVERY

After power is applied to the thermostat for the first time, it displays the iComfort® "splash screen", checks the system for installed communicating devices, and displays the "*Use this thermostat?*" screen.

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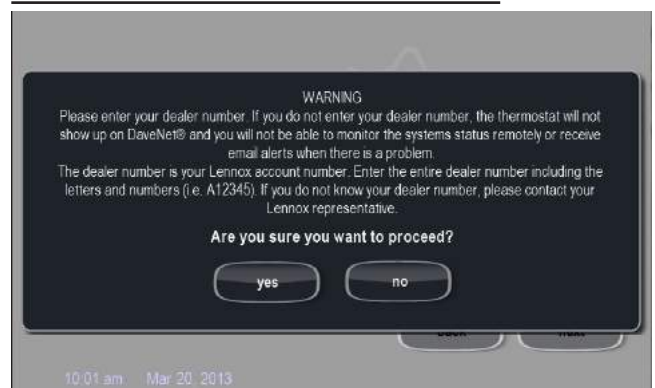
SYSTEM SETTINGS SCREEN

Use the up / down arrows to scroll through available settings. Right side of screen displays the current value of each setting.

> Touch any line and touch **Edit** to change System Settings.

Installer System Settings and Default Setting

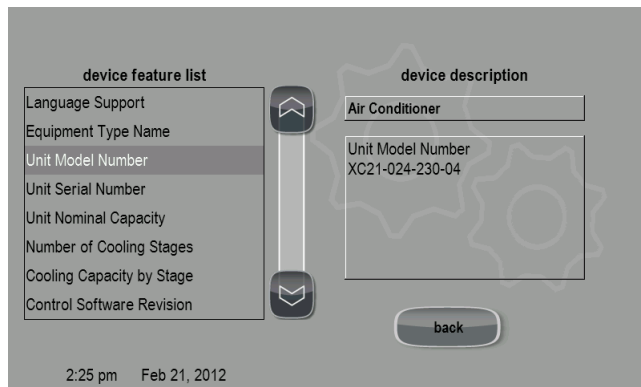| System Setting	Range / Condition	Default Setting	Modify with
Time and Date	- - -	- - -	Clock Setting Screen
Daylight Saving Time	Enabled/ Disabled	Enabled	Radio Buttons
Circulate Fan ON Time	15 to 45%	35%	Up/Down Arrows
Temperature Unit	Fahrenheit/ Celsius	Fahrenheit	Radio Buttons
System Name	alpha-numeric characters	my iComfort system	Keyboard tool
Dealer Number		- - -	
Dealer Name		Lennox	
Dealer Address		- - -	
Dealer Phone		1-800-9-LENNOX	
Dealer Email		- - -	
Dealer Website		www.lennox.com	

DEALER NUMBER WARNING SCREEN

NOTE - Dealer must enter a valid Dealer Number to be able to remotely monitor the homeowner's system status and receive e-mail alerts.

INSTALLER SETTINGS

ABOUT SYSTEM DEVICES SCREEN

device feature list

Language Support
Equipment Type Name
Unit Model Number
Unit Serial Number
Unit Nominal Capacity
Number of Cooling Stages
Cooling Capacity by Stage
Control Software Revision

device description

Air Conditioner

Unit Model Number
XC21-024-230-04

back

2:25 pm   Feb 21, 2012

Use the up / down arrows to scroll through available system devices. Right side of screen displays the device description.

ⓘ Touch any line and touch **About** to view device information. Displays equipment information depending on type *(name, model, serial number, number of stages, cooling btuh, indoor blower cfm range, software version, outdoor air temp sensor installed, etc.).*
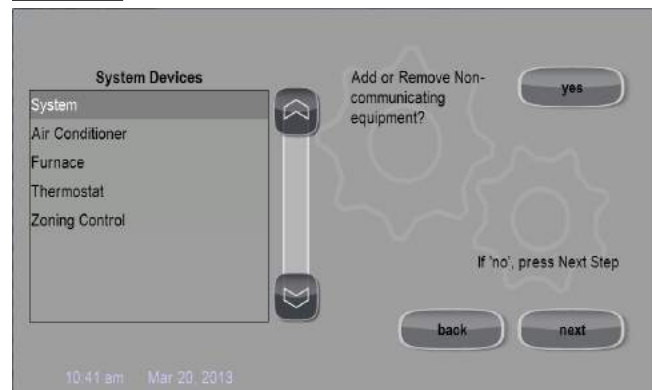
System
- Language Support
- Equipment Type name
- Control Software Revision
- Control Model Number
- Control Serial Number
- Control Hardware Revision
- Protocol Revision Number
- Device Product Level
- 24VAC Average Power Consumption
- 24VAC Peak Power Consumption

Air Conditioner
- Language Support
- Equipment Type name
- Unit Model Number
- Unit Serial Number
- Unit Nominal Capacity
- Number of Cooling Stages
- Cooling Capacity by Stage
- Control Software Revision
- Control Model Number
- Control Serial Number
- Control Hardware Revision
- Outdoor Air Temp Sensor
- 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

Heat Pump
- Language Support
- Equipment Type name
- Unit Model Number
- Unit Serial Number
- Unit Nominal Capacity
- Number of Heating Stages
- Number of Cooling Stages
- Heating Capacity by Stage
- Cooling Capacity by Stage
- Control Software Revision
- Control Model Number
- Control Serial Number
- Control Hardware Revision
- Outdoor Air Temp Sensor
- 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

Furnace or Air Handler
- 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

INSTALLER SETTINGS

ABOUT SYSTEM DEVICES SCREEN (Continued)

Furnace or Air Handler (Continued)

- Line Voltage Average Power Consumption
- Line Voltage Peak Power Consumption

Thermostat

- 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

Zoning Control (iHarmony® Zoning System Only)

- 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
- Max Number of Zones
- Supported Damper Types
- Number of Damper Positions
- Zone Temp Sensor 1 to 4

ADD OR REMOVE NON-COMMUNICATING DEVICES SCREEN

Use the up / down arrows to scroll through available system devices.

Touch any line and touch **Yes** to add or remove non-communicating equipment.
Bold indicates default setting.

- Outdoor Unit Type
  (**Not Installed**, 2 Stage AC Unit, 2 Stage HP Unit, 1 Stage AC Unit, 1 Stage HP Unit)
- Outdoor Unit Capacity
  (18 to 60 kBtuh, default is **36 kBtuh**)
- Outdoor Unit 1st Stage Capacity
  (30 to 100 kBtuh (default is **70 kBtuh**)

NOTE - If Outdoor Unit is non-communicating type, screen will display the above parameters to set.

- Humidifier
  (**Not Installed**, Power (120VAC) Humidifier, Bypass (24VAC) Humidifier, Bypass and Power Humidifier)
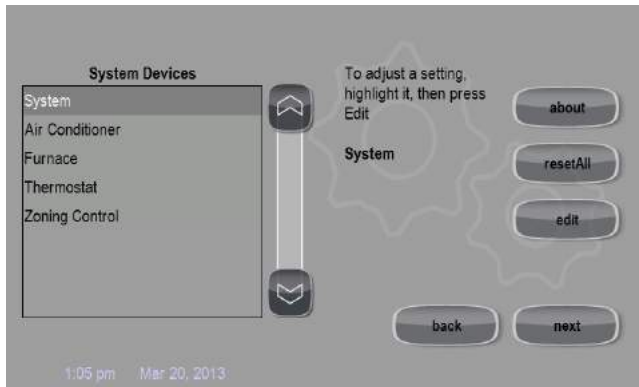
NOTE - if Air Handler is used, Bypass is the only Humidifier option.

- Dehumidifier
  (**Not Installed**, Humiditrol, Auxiliary Dehumidifier)

INSTALLER SETTINGS

ADJUST SYSTEM DEVICES SCREEN

Use the up / down arrows to scroll through available system devices.

> ⑦ Touch any line and touch **Edit** to adjust a device's setting. Touch **resetAll** to reset all system devices. **Bold** indicates default setting.
>
> *NOTE - "Reset ALL" resets all devices back to original factory default settings. Each individual device can be also reset to factory settings on the selected equipment screen.*
>
> *Equipment Name - Press "edit" button to change equipment name, use keyboard tool to change.*

System

- Equipment Name (Keyboard tool)
- Filter 1 Timer Selection (*Calendar or Run Time*)
- Filter 2 Timer Selection (*Calendar or Run Time*)
- UV Bulb Timer Selection (*Calendar or Run Time*)
- Humidifier Pad Timer Selection (*Calendar or Run Time*)
- PureAir Timer Selection (*Calendar or Run Time*)
- Smooth Setback Recovery (*Enabled/Disabled*)

XC/XP17/21
- Electric Heat Control Mode (Air Handler) (*Standard/ Evenheat*)
  - EvenHeat Discharge Temperature (*85 to 130°F, default is 85°F*)

Staged / Load Trk. Var. Cap.
- Gas Heat Control Mode (*Staged, Variable Capacity or Load Tracking Variable Capacity*)
  - Number of Gas Heating Stages (*1, 2, 3, or 4, default is 4*)
  - Modulating Gas Heating Steady State PI Gain (*Less Aggressive, More Aggressive or Standard*)
  - Modulating Gas Heating Step Change PI Gain (*Less Aggressive, More Aggressive or Standard*)
  - Modulating Gas Heating Cycles Per Hour (*4.0 to 10.0, default is 6.0*)

XC25, XP25
- Modulating HP Heating Steady State PI Gain (*Less Aggressive, More Aggressive or Standard*)
- Modulating HP Heating Step Change PI Gain (*Less Aggressive, More Aggressive or Standard*)
- Modulating HP Heating Cycles Per Hour (*3.0 to 6.0, default is 4.0*)
- Modulating HP Electric Heating Switching Point (*0.0 to 2.0, default is 1.0*)
- Modulating Cooling Steady State PI Gain (*Less Aggressive, More Aggressive or Standard*)
- Modulating Cooling Step Change PI Gain (*Less Aggressive, More Aggressive or Standard*)
- Modulating Cooling Cycles Per Hour (*3.0 to 6.0, default is 4.0*)

- 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 and 3rd Stage Differential (*0.5 to 8.0°F, default is 0.5°F*)
- Staged Delay Timers (*Enabled/Disabled*)
  - 2nd and 3rd Stage Delay (*5 to 120 min. in 5 min. increments, default is 20 min.*)

> ⑦ Number of heating stages shown depends on equipment installed. Electric heat is staged at every 2 elements.

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, default is 50°F*)
  - Low Balance Point (*–20 to 72°F, default is 25°F*)

- Min Dehumidification Setpoint (*40 to 60°F, default is 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, default is 0*)
- Max. Humidification Setpoint (*15 to 45% RH, default is 45%*)
- Auto Changeover Humidification Deadband (*5 to 10% RH, default is 5%*)

INSTALLER SETTINGS

ADJUST SYSTEM DEVICES SCREEN (Continued)

System (Continued)

- Outdoor Temperature Reading Calibration (*–10 to 10°F, default is* **0**)

ZONING
- Zoning Gas Heating DAT Cooldown target (*80 to 110°F, default is* **100°F**)
- Zoning Anticipated Discharge Air Temperature Adjustment (*0 to 120 seconds, default is* **60 seconds**)
- Zoning Target Supply Air Temp for Cooling (*50 to 60°F, default is* **50°F**)
- Zoning Target Supply Air Temp for Gas/Electric Heating (*100 to 130°F, default is* **100°F**)
- Zoning Target Supply Air Temp for HP Heating (*85 to 110°F, default is* **90°F**)
- Zoning Supply Air Temp Limit for Cooling (*35 to 45°F, default is* **40°F**)
- Zoning Supply Air Temp Limit for Gas/Electric Heating (*140 to 160°F, default is* **140°F**)

Humiditrol
- Humiditrol and Auxiliary Dehumidifier Minimum Runtime (*5 to 30 min., default is* **7 min.**)

D. Fuel
- HP Heating Lockout Time (*60 to 240 min., default is* **120 min.**)

ZONING
- Zone 1 through 4 First Stage Differential (*0.5 to 3.0°F, default is* **1.0°F**)
- Zone 1 through 4 Continuous Blower CFM
- Zone 1 through 4 Cooling CFM
- Zone 1 through 4 Heating CFM

- Reset Button (resets system back to factory default settings)

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

Air Conditioner or Heat Pump

- Equipment Name (Keyboard tool)
- Compressor Short Cycle Delay (*60 to 300 sec., default is* **300 sec.**)
- Defrost Termination Temp (Heat Pump only) (*50 to 100°F, default is* **50°F**)
- Compressor Shift Delay (Heat Pump only) (*On/Off, default is* **On**)

XC25, XP25
- High Normal Cooling Airflow
- Low Normal Cooling Airflow
- High Normal HP Heating Airflow
- Low Normal HP Heating Airflow
- Dehum Airflow Adjustment Adder (*0 to 30, default is* **1**)

XP17/21
- Fan Cycling (*On/Off, default is* **Off**)

Furnace

- Equipment Name (Keyboard tool)

XC17/21, XP17/21
- Airflow Profile - Cooling (*default is* **A**)
  - 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 (No delays); OFF (45 sec. delay)
  - D. (No delays)

- Continuous Indoor Blower Airflow (*250 to 1150 cfm, default is* **315 cfm**)
- Dehumidification Airflow % (*60 to 80%, default is* **70%**)
- 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.**)
  - Cooling Indoor Blower OFF (*0 to 30 sec., default is* **0 sec.**)
  - Cooling Indoor Blower ON (*0 to 10 sec., default is* **2 sec.**)

INSTALLER SETTINGS

ADJUST SYSTEM DEVICES SCREEN (Continued)

Furnace (Continued)

- Heating Airflow Control Type - Selections available if Discharge Air Temperature Sensor is installed (*Fixed cfm, fixed Discharge Air Temperature*)

  With Discharge Air Temperature:

  - Low Heating Discharge Air Temperature - Available if Discharge Air Temperature Sensor is installed (*110 to 140°F, default is **125°F***)

  - High Heating Discharge Air Temperature - Available if Discharge Air Temperature Sensor is installed (*120 to 150°F, default is **135°F***)

  With Fixed cfm:

  - Low Heating Airflow (*325 to 475 cfm, default is **475 cfm***)

  - High Heating Airflow (*800 to 1100 cfm, default is **975 cfm***)

- High Cooling Airflow (*270 to 1150 cfm, default is **825 cfm***)

- High HP Airflow (*300 to 1400 cfm, default is **800 cfm***)

> ⑦ All furnace default airflow settings are dependent on furnace capacity.

> ⑦ NOTE - Humidification and Dehumidification Airflow settings are only viewable if those non-communicating products are added during setup.

Air Handler

- Equipment Name (Keyboard tool)
- Electric Heating Airflow
- Low Cooling Airflow (XC21, XP21)
- High Cooling Airflow

XC17/21, XP17/21
- Airflow Profile - Cooling (*default is **1***)
  1. ***No Delays***
  2. On (*No delays*); Off (*45 sec. delay*)
  3. On (*82% for 7.5 min.*); Off (*No delays*)
  4. On (*50% for 30 sec., 82% for 7.5 min.*); Off (*50% for 30 sec.*)

- Low HP Airflow (XP21)
- High HP Airflow
- Continuous Indoor Blower Airflow (*450 to 1150 cfm, default is **600 cfm***)
- Humidification Airflow (Humidifier)

> ⑦ All airflow parameters are determined by settings in communicating equipment and are dependent on the capacity of the unit.

- Dehumidification Airflow (Dehumidifier) (60 to 80%, default is 70%)

> ⑦ Dehumidification Airflow is 60 to 80% reduction of the High Cooling Airflow parameter.

- Delay Settings
  - Heating Indoor Blower OFF (*0 to 10 sec., default is **10 sec.***)
  - Heating Indoor Blower ON (*0 to 5 sec., default is **0 sec.***)
  - Cooling Indoor Blower OFF (*0 to 30 sec., default is **0 sec.***)
  - Cooling Indoor Blower ON (*0 to 10 sec., default is **2 sec.***)
  - HP Indoor Blower OFF (*0 to 60 sec., default is **45 sec.***)
  - HP Indoor Blower ON (*0 to 30 sec., default is **0 sec.***)

Thermostat

- Equipment Name
- Temp. Reading Calibration (*-5 to 5°F, default is **0°F***)
- Humidity Reading Calibration (*-10 to 10°F, default is **0°F***)

ZONING
Zoning Control
- Equipment Name
- Zone 2 through 4 Reading Calibration (*-5 to 5°F, default is **0°F***)

INSTALLER SETTINGS

ZONING - EDIT AND TEST AIRFLOW PER ZONE

NOTE - Zoning is only available for systems using the iHarmony® Zoning System.

*NOTE - The airflow per zone must be selected and verified before continuing.*

Touch any Zone Button and select the desired airflow for each zone.

Touch each Start button to test, touch the Stop All Button to end test.

Touch each radio button in order to set each zone for Blower Circulation, Cooling Airflow and Heating Airflow.

NOTE - The Next Button will appear after all zone airflows have been set and verified.

The Maximum Airflow for the selected mode on the left is displayed at the top right of the screen.

The Assigned Airflow (the sum of the selected airflow for each zone) is displayed at the top right of the screen.

- Blower Circulation Airflow
  - Zone 1 through 4
- Cooling Airflow
  - Zone 1 through 4
- Heating Airflow
  - Zone 1 through 4

Default Airflow for Zones is dependent on which size and type of indoor unit is installed.

INSTALLER SETUP SCREEN
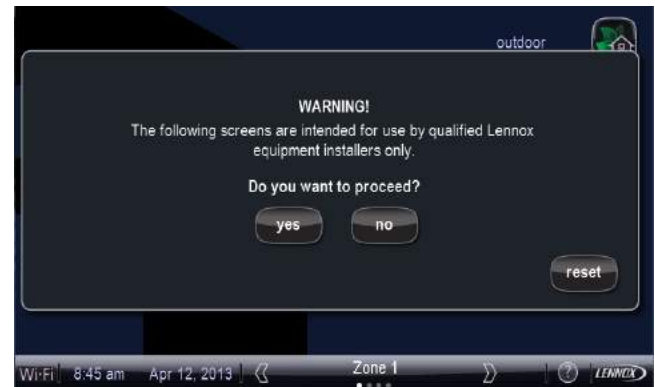
When the Home Screen is displayed touch and hold the LENNOX Logo Button for 5-6 seconds to switch to the Installer Mode Screen.

Touch each checkbox to select the equipment you want to setup or use the Select All Button. Use the Deselect All Button to uncheck all boxes.

Setup Button

- Allows installer to setup a new system or re-setup an existing system (see page 17)

Tests Button

- Run system tests (see page 24)

Equipment Button

- Allows installer to edit system devices (see page 24)

Alerts Button

- View system alerts (see page 12)

Diagnostics Button

- Run system diagnostics (See page 24)

View Active Button

- View any active alerts

View Cleared

- View any previously cleared alerts

INSTALLER SETTINGS

TESTS SCREEN

A variety of system tests can be performed by the installer. Select the tests to be performed individually by touching the checkboxes or use the Select All Button to run all available tests. Use the Deselect All Button to uncheck all boxes.

The Skip Tests Button allows bypassing all system tests.
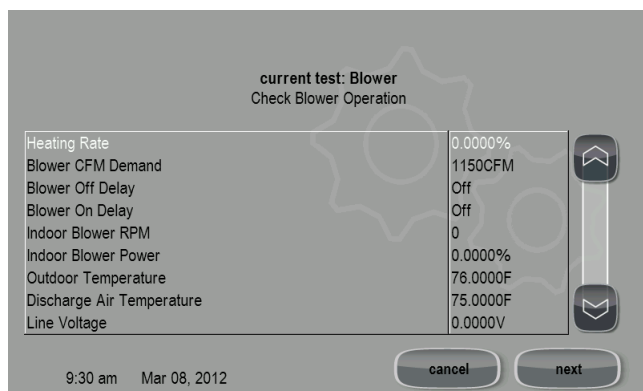
When a test is running, a status screen will show which test is being run and the results. Use the up / down arrows to scroll through the results.

Touching the Next Button advances to the next test.

A *Testing Process is Finished* confirmation screen will appear when testing is complete.
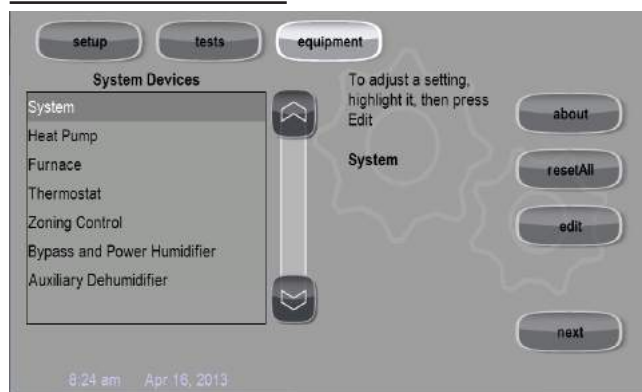
> ⊙ NOTE - The *tests* feature is not available until after setup has been completed at least once.

DIAGNOSTICS SCREEN
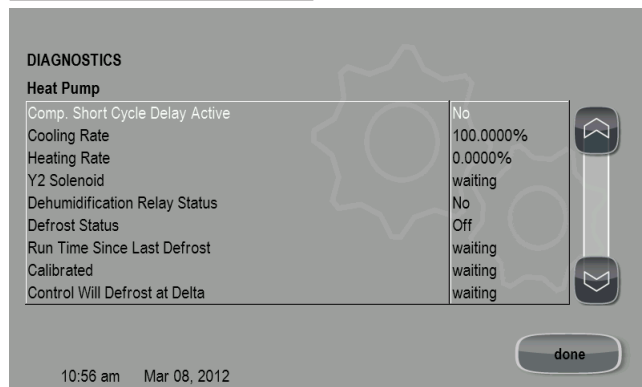
Allows installer to run diagnostic tests on any iComfort®-enabled product.

EQUIPMENT SCREEN

The Equipment Button allows the same equipment setting adjustments as in *setup*, see Adjust System Devices, page 20.

REVISIONS

Sections	Description of Change
Skins	Removed custom skins option.