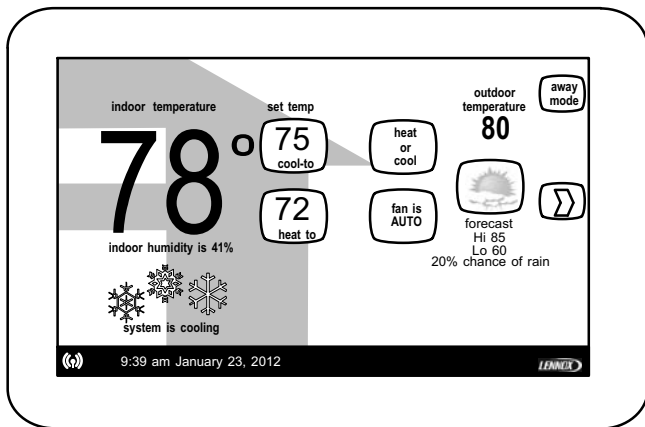




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So simple. So smart. So comfortable.



HOMEOWNER'S MANUAL

icomfort Wi-Fi™ Thermostat

Touch Screen Programmable Communicating Thermostat

CONTROLS

506921-01
04/12

TP Technical
Publications

General

Congratulations on choosing the icomfort Wi-Fi™ touch screen, programmable thermostat! The state-of-the-art technology built into this device makes it easy for you to keep your home comfortable while at home, and it allows you to adjust your home's comfort settings from wherever you have access to the internet!

Help screens are just a touch away; this manual will get you started experiencing a whole new world of home comfort.



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WARNING

Do not switch system to cool if the outdoor temperature is below 45°F (7°C). This can damage the cooling system.

NOTICE

Use this thermostat only as described in this manual.

506921-01 04/12

icomfort Wi-Fi™ Thermostat

The communicating icomfort Wi-Fi™ thermostat is an electronic 7-day programmable touch screen thermostat with color display. It also offers enhanced capabilities which include humidification measurement and control, dew point adjustment control, dehumidification measurement and control, Humiditrol® Enhanced Dehumidification Accessory (EDA) capability, and equipment maintenance reminders. The thermostat's auto-changeover mode permits control of heating, cooling, humidification, and dehumidification without user involvement.

The icomfort Wi-Fi™ thermostat can connect to the internet using your home's wireless Wi-Fi access point. After online registration is completed, weather information is automatically sent to the thermostat, and you will have full access to the thermostat from anywhere using a remote internet connection via computer, smartphone, or iPad.

The thermostat stores system parameters in nonvolatile memory (retains data when electrical power fails or is turned off), and includes on-board help screens.

Indoor Air Quality accessories are supported with time-based notification of consumables including media filters, UVC bulbs, humidifier pads, and PureAir™ catalyst service / replacement.

Thermostat Lock-out

A "lock" icon at the bottom center screen (shown in the picture), indicates the thermostat is either partially- or fully-locked.



Partially-locked, any user can adjust the temperature up or down to set a "hold" for a selectable time.

Fully-locked, no one can make any changes to the thermostat's settings. To unlock, press and hold the "lock" icon for 5-6 seconds.

To lock the thermostat, access "Screen lockout" through the dashboard's "display settings" described on Page 7.

Start up

In event of power failure—If a power failure occurs, when the power comes back on, the thermostat will reboot and when complete, the HOME screen will return.



What the Home screen tells you...

After the thermostat and the system has been fully connected and powered on, the icomfort Wi-Fi™ thermostat's Home screen is displayed. Figure 1 shows a display and describes what the thermostat is telling you.

Note that set to **heat or cool** communicates that the system is operating in *manual* mode; if it were in *program* mode, the heat or cool button would read **summer program is on** (or other named program).

Other information...

Until and unless the indoor temperature is at or between the two settings (70 to 75 degrees in this example), the system should run until it does measure within that temperature range.

The Wi-Fi indicator is  (not ) , therefore, the thermostat is connected with your wireless network router.

Away mode sets the thermostat for energy saving while you are gone for an extended period of time. In this mode, the system will only come on if indoor temperature falls below 62 degrees (for heating) or if indoor temperature rises above 85 degrees (for cooling).

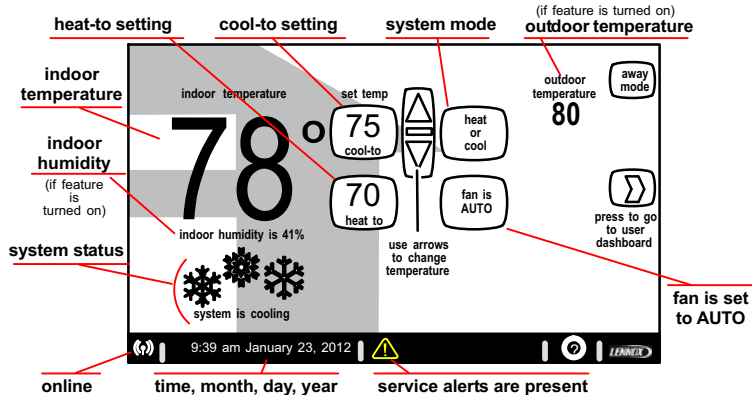




Figure 1. Home screen (typical)

What you can do from the Home screen...

Typically, what every homeowner wants from an air conditioning system is to be able to control that system using a convenient device to adjust heating, cooling, and the level of humidity in the home.

From this screen you may:

- adjust temperature settings
- access menus to change the program mode
- change how the fan operates
- access the “dashboard” (fig. 3) by pressing 
- access and view active service alerts by pressing the  icon
- access help screen by pressing the “?” icon.

Adjusting the temperature and changing the system mode of operation is described fully beginning on Page 14.

Adjusting the humidity, even if no physical humidifier or dehumidifier is present, may also be available, provided the installer has implemented the feature during setup. See Page 16 for details on humidity control.

User Preference Quick Reference Chart (to change, use tools shown on Page 5)

user setting	🔍 dashboard button	Default	page	tools	variables
Fan Setting	system settings	auto	Page 6	menu	auto, on, circulate
Humidifier	system settings	OFF	Page 6	toggle	OFF, ON
Indoor Humidity Display	system settings	OFF	Page 6	toggle	OFF, ON
Dehumidifier	system settings	OFF	Page 6	toggle	OFF, ON
Time and Date	clock settings	—	Page 7	time/date	(Time/date elements screen)
Daylight Saving Time	clock settings	Enabled	Page 7	toggle	Enabled, Disabled
Clock Format	clock settings	12H	Page 7	toggle	12 Hour, 24 Hour
Background Theme	display settings	cobalt	Page 7	toggle	cobalt, cotton, carbon
Temperature Display Scale	display settings	(F)	Page 7	toggle	(F) Fahrenheit, (C) Celsius
Power Save	display settings	ON	Page 7	toggle	ON, OFF
Screen Lock-out	display settings	Unlocked	Page 7	menu	Unlocked, Partially Locked, Fully Locked
Language Displayed	display settings	English	Page 7	menu	English, French, Spanish
Outdoor Temp Display	display settings	OFF	Page 7	toggle	OFF, ON
Backlight Intensity	display settings	100%	Page 7	arrows	20 to 100% (in 20% increments)
Clean Screen	display settings	—	Page 7	(view only)	(30 sec. timer deactivates touch screen to clean screen; use damp cloth to clean)
Weather	weather	—	Page 8		
Setup a program	edit program	save energy	See details Page 8		—
View alerts	alerts	—	See details Page 9		—
Filter 1 Timer	reminders	Disabled	See details Page 11		Disabled, 3 Months, 6 Months, 12 Months, 24 Months, Custom Time
Filter 2 Timer	reminders	Disabled			Disabled, 3 Months, 6 Months, 12 Months, 24 Months, Custom Time
Humidifier Pad Timer	reminders	Disabled			Disabled, 3 Months, 6 Months, 12 Months, 24 Months, Custom Time
UV Bulb Timer	reminders	Disabled			Disabled, 3 Months, 6 Months, 12 Months, 24 Months, Custom Time
Maintenance Timer	reminders	Disabled			Disabled, 3 Months, 6 Months, 12 Months, 24 Months, Custom Time
PureAir™ Timer	reminders	Disabled			Disabled, 3 Months, 6 Months, 12 Months, 24 Months, Custom Time
Dealer Name	service information	(these may show installer input data but owner may change)	See details Page 13		(keyboard)
Dealer Address	service information				(keyboard)
Dealer Phone	service information				(keyboard)
Dealer Email	service information				(keyboard)
Dealer Website	service information				(keyboard)
Dealer Number	service information				(keyboard)

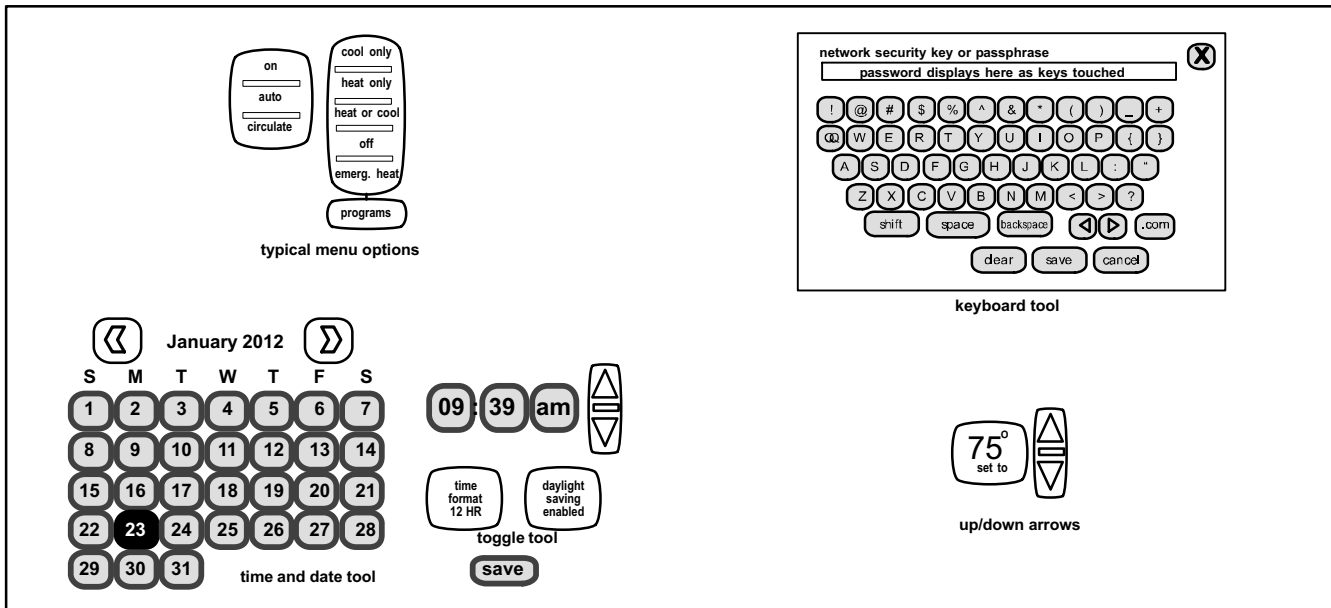



Figure 2. User preference change tools

User Dashboard and Help (?) Screens

From the Home screen, press the  button to go to the dashboard. The dashboard (figure 3) allows you to set the system to operate the way you want it to operate. From the dashboard, you can access system settings, clock settings, and display settings, weather, edit programs, alerts, reminders, service and help (?).

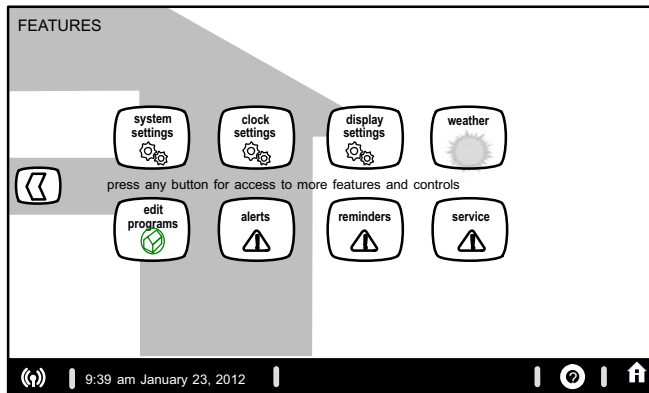



Figure 3. User dashboard - indoor settings

System settings

Press button: **system settings**. Figure 4 “A” shows the screen with its defaults. Figure 4 “B” shows how the devices can be configured.

Press button: **set to AUTO**. (button may read: **set to ON** or **set to CIRCUL..**). Select from pop-up menu: **on**, **auto**, or **circulate**.

Press buttons: **humidifier**, **humidity display**, or **dehumidifier** to turn each on. The resulting display shows the default values of humidifier and dehumidifier; use the arrows to change either.

When **humidity display** is ON, text near the screen bottom shows the current humidity. Touch the “X” button to return to dashboard or the Home icon  for the Home screen.

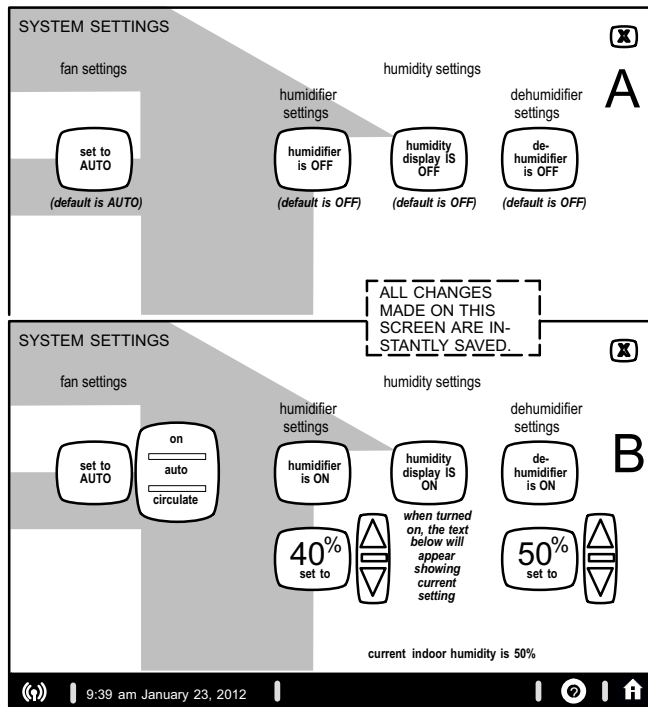


Figure 4. System Settings

Clock settings

Press **clock settings** (see figure 3). Figure 5 shows the *Set current time and date* screen. Use the horizontal arrows to scroll to month and year; then touch a day of month to select it. Touch **time format** and **daylight saving** to toggle these options. Use the up/down arrows to change time. Touch **am/pm** to select morning or afternoon (am/pm does not appear if 24HR format is selected).

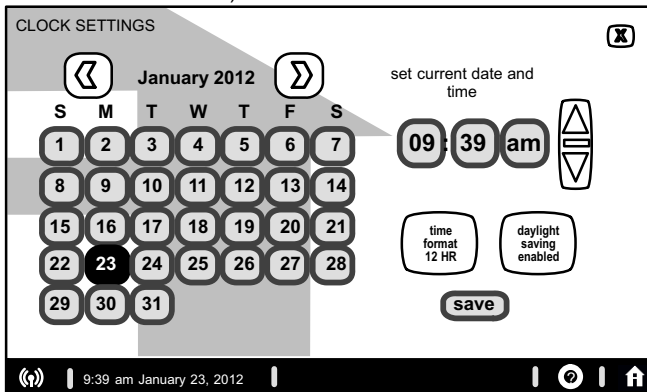


Figure 5. Set current time and date

Display settings

Press **display settings** (see figure 3). Figure 6 “A” shows the *Display settings* screen and defaults.

Press buttons: **Temp scale** (°F/°C), **power save** (ON/OFF) and **outdoor temp display** (ON/OFF) to toggle these options.

Press buttons: **Background theme**, **language** and **screen lockout**; press to select options from pop up menus (figure 6 “B”).

Press button: **backlight intensity**; use up/down arrows to change the intensity of backlighting in 20% increments.

Use the **press to CLEAN SCREEN** button to give yourself a 30 second timer to clean off the screen (use a damp cloth to clean).

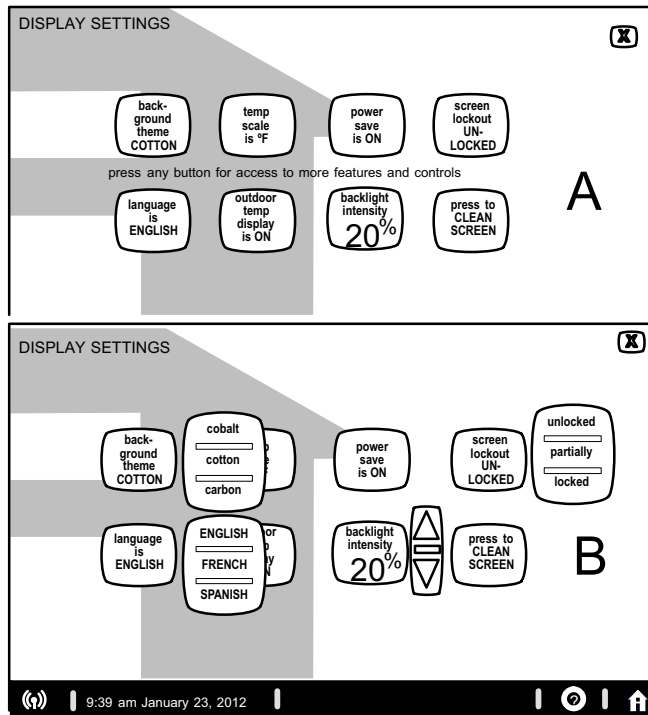


Figure 6. Display settings

Weather

Press button: **weather** (see fig. 3). Figure 7 shows a typical 5-day forecast screen. Use “X” button to return to the previous screen.

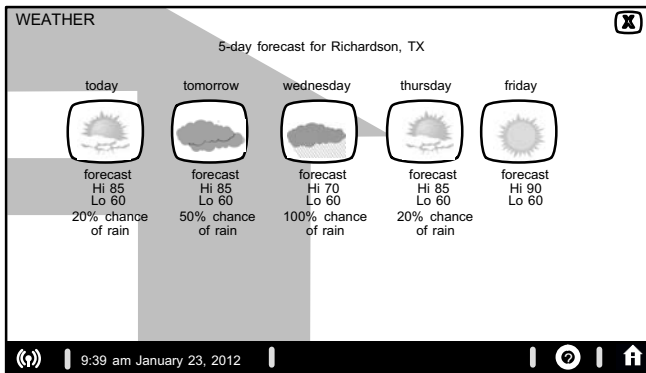


Figure 7. Typical weather screen

Edit program

Press button: **edit program** (see fig. 3). Figure 8 “A” shows edit program screen. Figure 8 “B” shows pop up menus that appear when the selections are touched and it illustrates changes made to the program.

Edit the “season programs” to your preference. (**Save energy** uses high-efficiency EnergyStar settings to promote energy conservation).

select programs - select a preset program; or press and hold any button for the keyboard and change button names to user preference.

select days - week/weekend, individual days, all 7 days.

time - up/down arrows to change time in 15 minute increments.

cool- & heat-to - up/down arrows to change temperature in 1° increments.

fan mode - on, auto, circulate.

Figure 8 “B” also shows that the evening time has been disabled; this is done by pressing and holding the time button for that time period. (Touch **add**

setting to re-enable that time period). Use the **restore** button to restore defaults for the preset programs. Press “X” button after changing; a pop-up prompts with **back**, **discard** and **save** options. Select **save** to save and return to the dashboard.

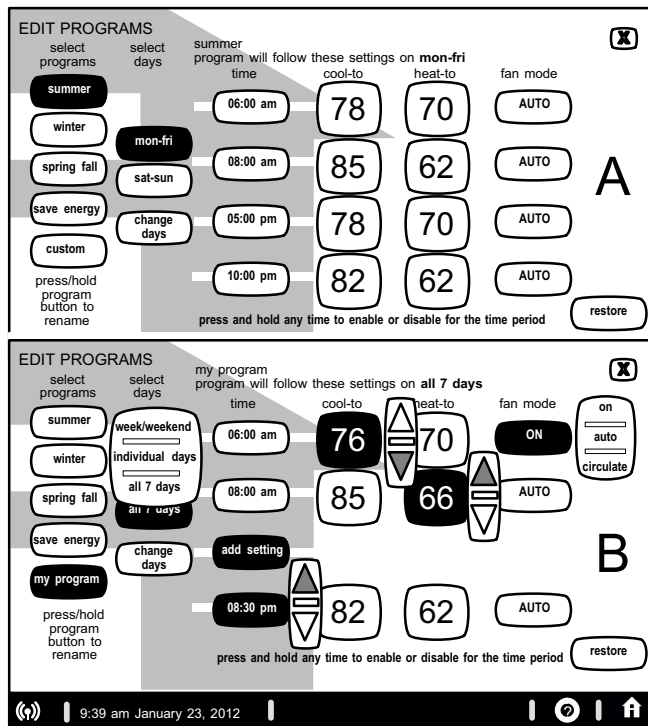


Figure 8. Edit program screen

Alerts

Figure 10 shows how an alert appears when it occurs after the system has been put into operation. Use information on this screen to contact your HVAC serviceman. Use the “X” to return to the previous screen.

A **red alert** (red icon) identifies a problem that could prevent the system from working properly or not working at all, and if allowed to run, could cause damage to the system. You **MUST** call for service immediately.

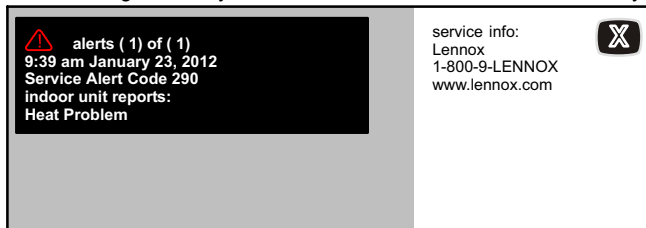


Figure 9. Typical red alert

A **service alert** (yellow icon) tells you to perform routine service, or to call the dealer to service, one or more of the following: Filters, Humidifier Pad, UV Light, PureAir™ Air Purification system, and Maintenance. These alerts will appear based on elapsed time set per the “reminders”. For information on clearing and remind later, see reminders on Page 11.

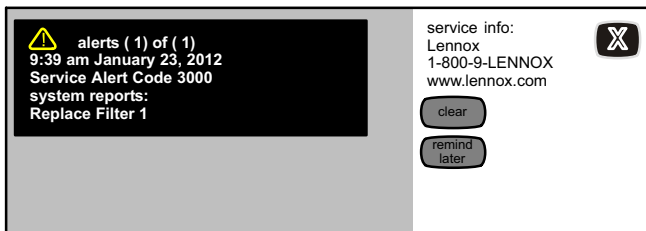


Figure 10. Typical service alert

Access alerts through the dashboard

Press the Home screen alert icon (△) or the **alerts** button on the dashboard (see figure 3). Any alerts will appear similar to those shown in figure 11. Touch the “**select alert time period for viewing**” button to view alerts that occurred in the last 24 hours, last 30 days, or last 12 months. Contact your HVAC serviceman to report the alerts and related problems.

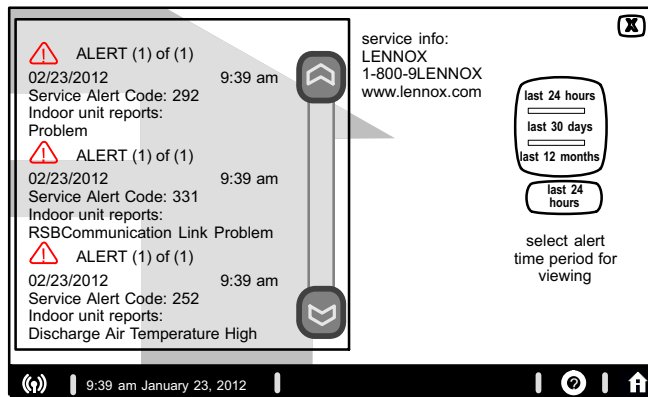


Figure 11. Alerts viewed from dashboard option

Navigate to different screens (see figure 12). You can clear alerts and set new reminders after routine service. You may also set a “remind later” to be reminded at a more convenient time for doing the service. If a red alert (red Δ) is present, contact the party identified under **service info**.

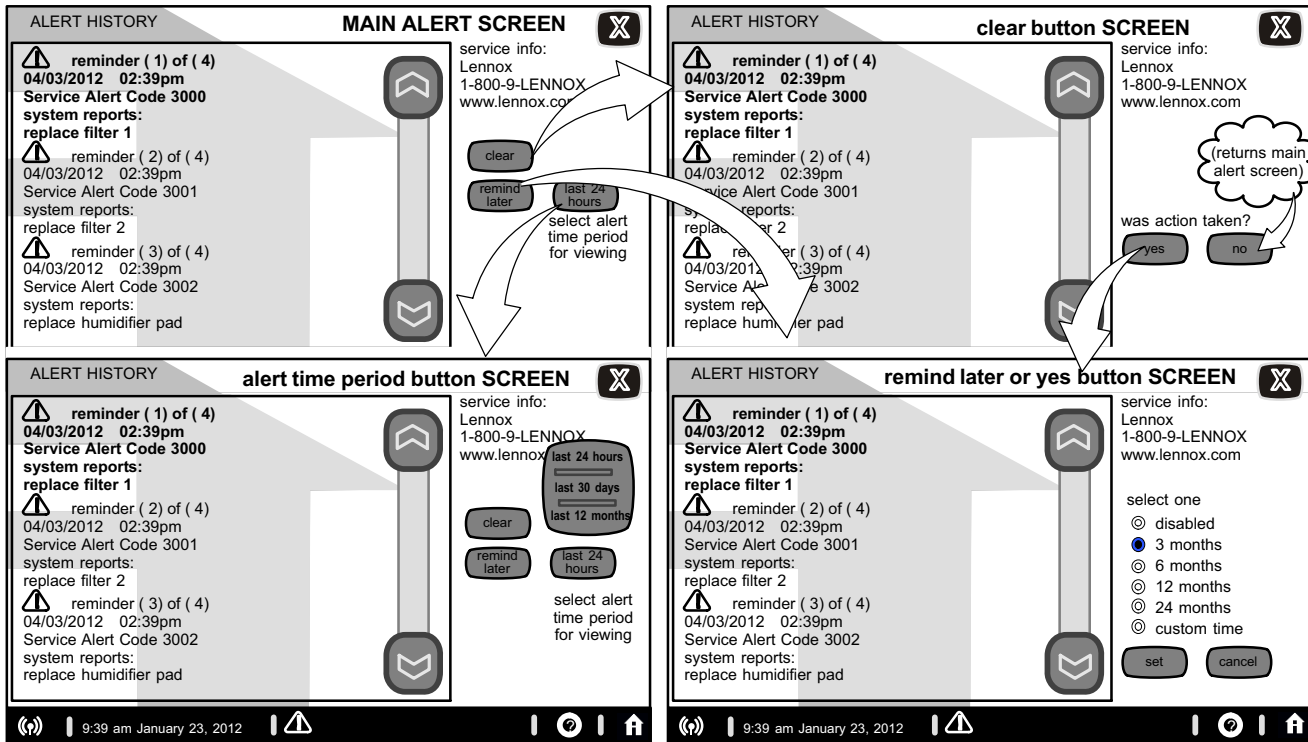


Figure 12. Alerts

Service Alert Codes

Number	Value	Number	Value	Number	Value	Number	Value
3000	Filter 1	3002	Humidifier Pad	3004	Maintenance	4000	User WiFi state change, disable
3001	Filter 2	3003	UV Light	3005	PureAir Maintenance	4001	Firmware download failed

Reminders

Reminders alert you to perform routine services, such as replacing filters. Access the reminders from the dashboard **reminders** button.

Setting reminders

NOTE - A previously set service time can be changed using the “custom time” option.

Use one of the “month” reminders to be reminded when to perform the routine service again.

Use **custom** to pop-up the time/date screen (figure 14) to set an exact date and time for a reminder to appear. Use the arrows to select a month; then select a day of the month. Press **save** when finished.

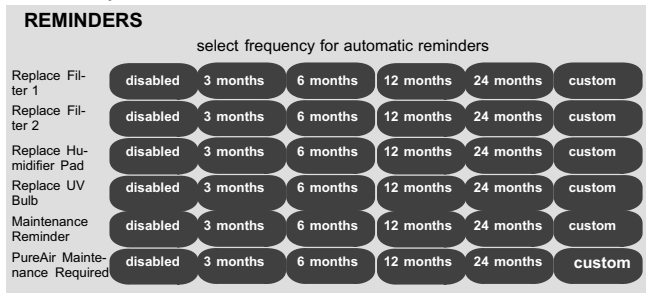


Figure 13. Set new alert date

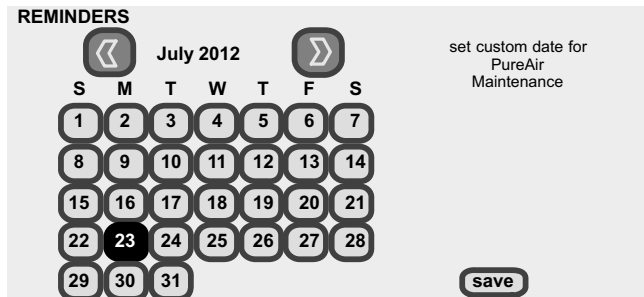


Figure 14. Setting custom time

Service reminders can be cleared or date-changed through the service alert's **clear** and **remind later** buttons on the right side of the screen.

The figure consists of three screenshots of a service alert interface. The top-left screenshot shows the alert details: "alerts (1) of (1)", "9:39 am January 23, 2012", "Service Alert Code 3000", "system reports:", and "Replace Filter 1". On the right, "service info" includes "Lennox", "1-800-9-LENNOX", and "www.lennox.com". There are "clear" and "remind later" buttons. A callout bubble points to the "clear" button with the text "(goes to screen below)". Another callout bubble points to the "remind later" button with the text "clears alert temporarily; alert will repeat". A third callout bubble points to the "X" icon with the text "'X'". The top-right screenshot shows the "remind later" screen. It has the same alert details as the first screenshot. On the right, there is a list of options: "disabled", "3 months", "6 months", "12 months", "24 months", and "custom time". There are "set" and "cancel" buttons. A callout bubble points to the "X" icon with the text "'X'". The bottom-left screenshot shows the alert details and "service info" as in the first screenshot. Below the alert details, there is a "was action taken?" question with "yes" and "no" buttons. A callout bubble points to the "no" button with the text "(returns to above screen)".

Using "remind later"

You may choose **remind later** and then pick from the options list. When you press **set**, the screen changes to confirm your selection. Press **X** to clear and return to the Home screen.

Use **custom** to open the time/date screen (figure 14) and set an exact date and time for the reminder to appear. Press in one of the boxes to highlight it and use the up/down arrows to change the value in that box. Repeat for all boxes. When desired reminder is displayed, press **set**.

Figure 15. Viewing, clearing, and changing reminder time

Service Information

Service information is normally filled in by the installer at time of initial installation. However, you can change this information, when and if needed.

Touch any line of text to produce a keyboard and then enter any new information. Touch the **save** button when finished entering information.

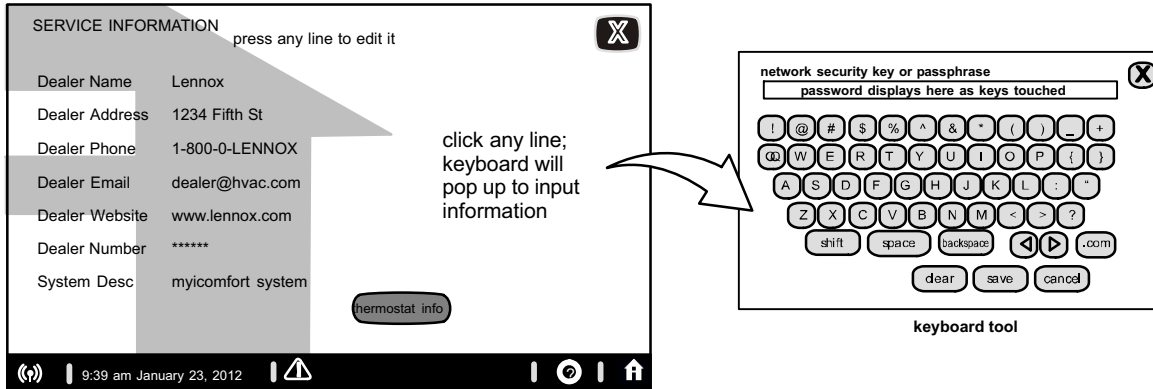


Figure 16. Service Information

HELP (?)

nothing available to date...

Adjust temperature and change programs

Adjust temperature when programming is OFF—When the programming is OFF, the mode button (shown in figure 17, labeled **heat or cool**) indicates a manual state (no mention of “program”). In this mode, change temperature by pressing a **set temp** button, which produces an up or down arrow, then use the arrows until the “cool to” (or “heat to”) number is at the desired temperature.

This setting will remain until you decide to change it again. (The inset shows an alternate configuration of button layout in non-program mode.)

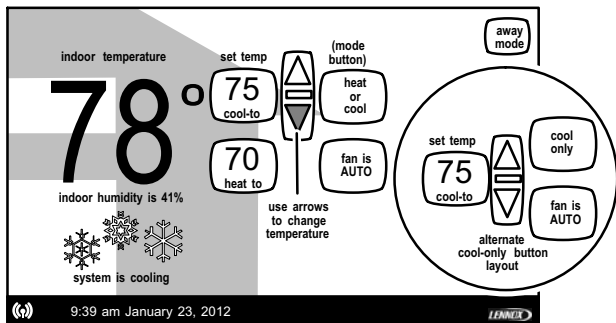


Figure 17. Adjusting temperature with NO program running

Away Mode (Vacation)—The **away mode** button on the home screen sets the system for manual operation and allows you to set the thermostat for energy saving while you are gone for an extended period of time. In this mode, the system will only come on if indoor temperature falls below a set degree (62 default for heating) or if indoor temperature rises above a set degree (85 default for cooling). You may adjust those settings as desired.

Turn Programming ON—If the programming is OFF, turn it on by pressing the mode button (shown in figure 18, labeled **heat or cool**). The manual settings menu includes an option to access programs. Select **programs**. The program settings menu takes the place of the manual settings menu. (Either menu will time out and disappear if you don’t make a selection within a few seconds). Select an option (e.g. **spring/fall**). The menu disappears and the mode button will display the selected program (e.g. **spring...program is ON**).

Turn Programming OFF—If the programming is ON, turn it off by pressing the mode button (e.g. **spring...program is ON**). The program settings menu includes an option for manual. Select **manual**. The menu changes to the manual settings. Select one (e.g. **heat only**). The menus disappear and mode button will display the selected manual option (e.g. **heat only**).

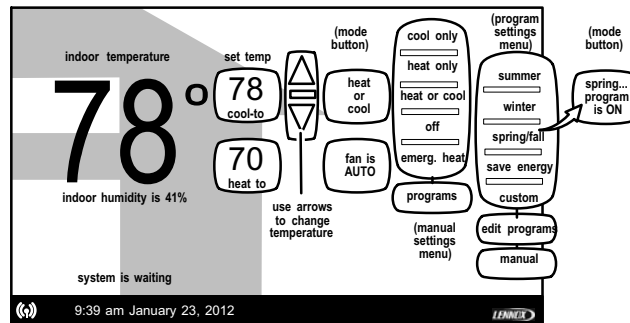


Figure 18. Turning on the program

Adjust temperature when program is ON—Program HOLD

When the program is ON, the mode button (shown in figure 19, labeled **spring...program is ON**) indicates which program is running. In this mode, change temperature by pressing a **set temp** button, which produces an up or down arrow, then use the arrows until the “cool to” (or “heat to”) number is at the desired temperature (see **A** in figure 19).

While changing the setting, the **other options** menu appears (see **B** in figure 19), giving a list of options you can choose.

You may select one of the hour buttons (1, 2, 8, or 24) if desired. If you select **custom**, a time/date appears and you have the option of setting the hold for any length of time (see **C** in figure 19).

After a hold is set, the **other options** menu disappears and a message will state when the hold expires, along with a **cancel** option should you choose to revert back to the program.

Note that if you do not choose one of the “other options”, the default setting will be that the program is held until the next period.

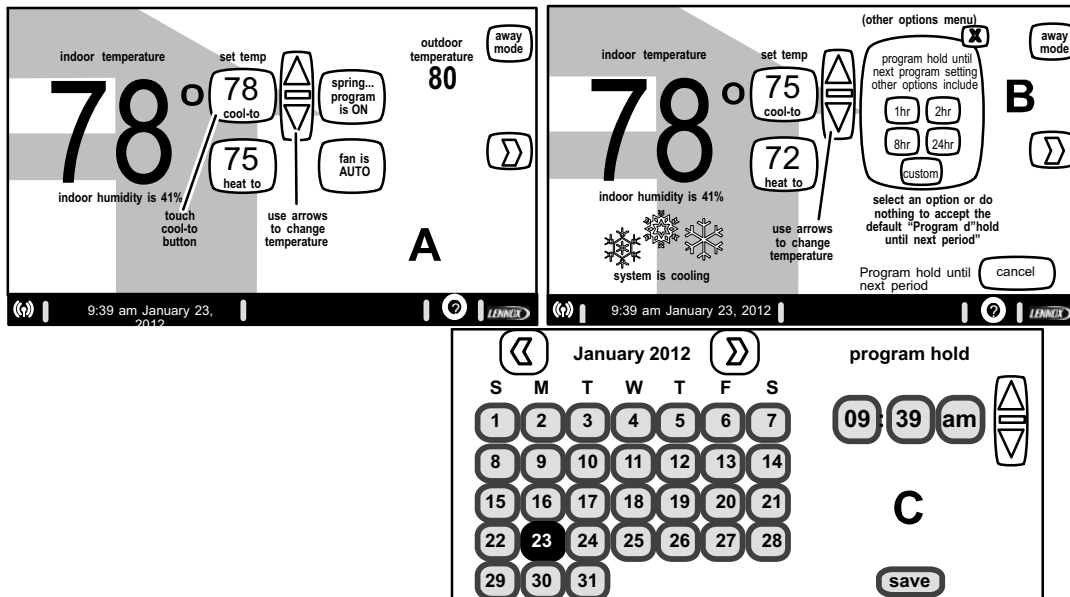



Figure 19. Adjusting temperature with program running

Setting humidity controls

NOTICE

Humidifier and dehumidifier controls must be setup by the installer or these controls will not be visible. If your system has one or both of these features and the controls are not visible, contact your Lennox dealer for proper setup.

If the controls have been setup, they will appear and will be ON.

To adjust humidity controls (either to humidify or dehumidify), click the  button to go to the dashboard controls; then **select system** settings button. Some systems may have a humidifier and some may have a dehumidifier, while still other systems may have both (as shown in figure 20). You can control either or both from this screen.

Both controls work identically. Touch the button of the humidity control you want to address; if it says (de)humidifier is OFF, one touch will change it to (de)humidifier is ON and bring on the RH setting button below that button. When you touch the **set-to** button, the arrows appear, allowing you to change to the desired humidity setting.

Remember that the “humidify” control only operates while in the heating mode and “dehumidify” only operates while in the cooling mode.

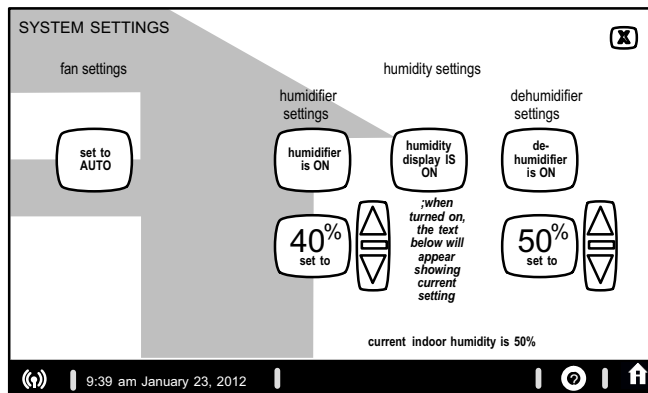


Figure 20. Humidifier controls

Enabling the thermostat's Wi-Fi feature from the Home screen

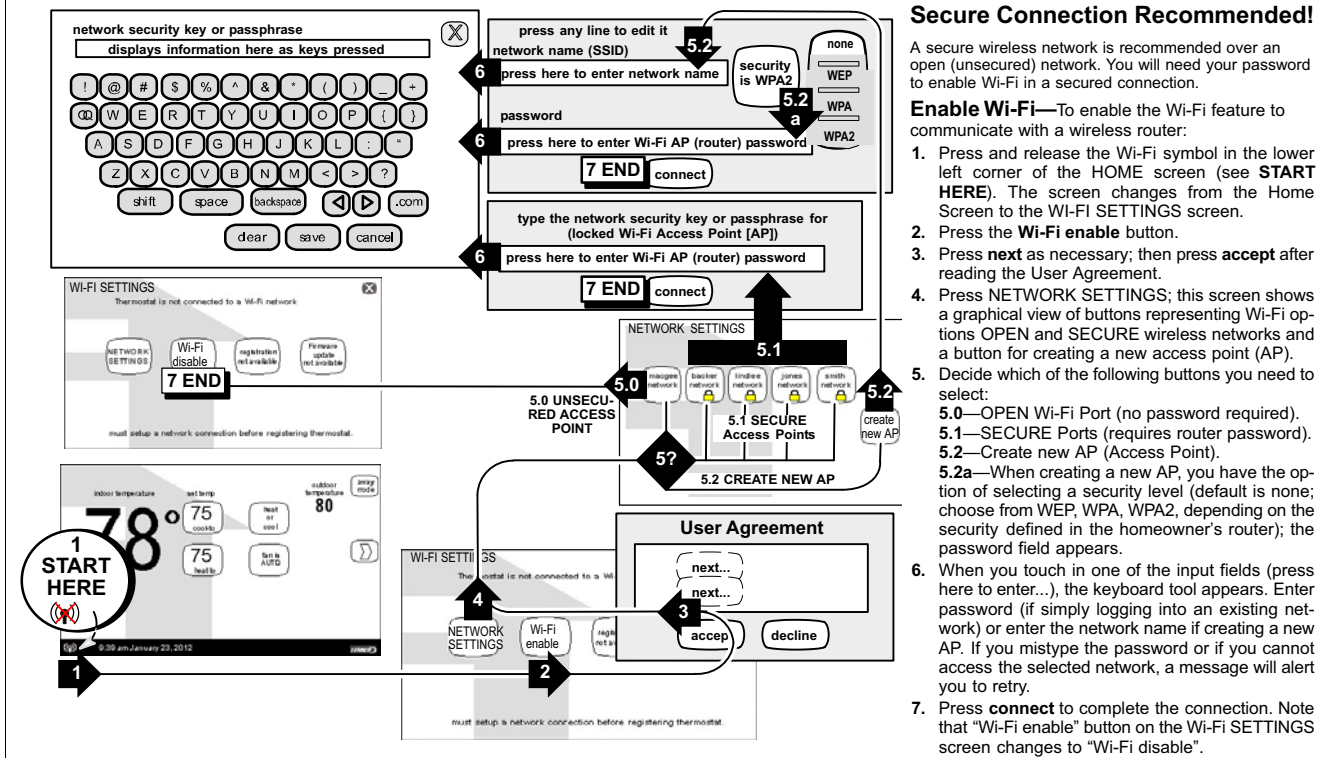


Figure 21. Wi-Fi setup

Registering the thermostat from the Home screen

Press registration available button.

Enter homeowner email address twice and press the register button.

Once registered, the system will send an email with a network link and password to the address you entered to complete the registration on your computer.

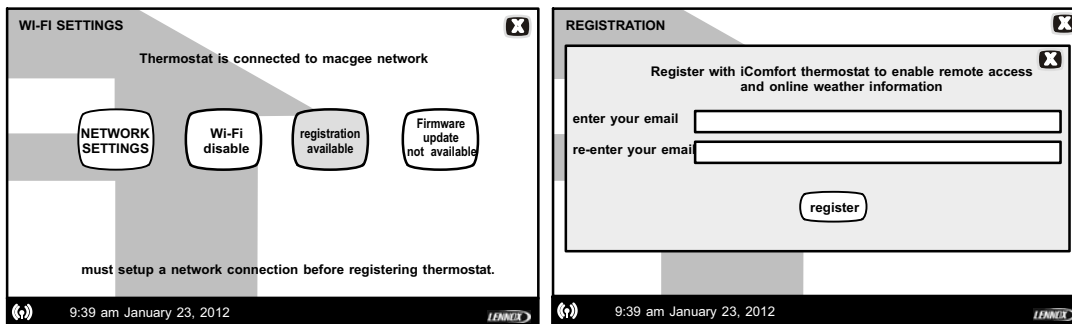


Figure 22. Registering the system for online access

icomfort Registration:
Create an Account

All fields are required

User Name

Password

Confirm Password

Yes, I agree to the [Terms and Conditions](#)

Create User »

Already have an account?
Click Here »

Figure 23. Computer login for online access

NOTE - This following information is customer setup instructions and is shown here to allow the installer to help walk the customer through the setup process.

After registering through your icomfort Wi-Fi™ thermostat interface, go to the homeowner's computer and locate the email sent from the server:

Dear Customer,

Congratulations on your purchase of a Lennox icomfort thermostat! You are only a few steps away from total control of your Lennox icomfort system. Registering your thermostat will allow you to remotely access it from anywhere in the world on any device with an internet connection. Please complete your Lennox icomfort registration by clicking the link below:

[Register](#)

NOTE - if the customer has already setup an account, click the "Click Here" button to access that account.

Click on the Register link; the screen (to the left) will appear. Fill in the User Name and Password fields and check the agree to terms and conditions box. Click **Create User** button.

A series of pages and prompts follows to provide guidance through profile setup and user preference definitions.

For quick reference, locate this card in the thermostat package.

Follow these simple steps to connect the icomfort Wi-Fi™ and enable remote features.



SIMPLE INSTRUCTIONS:

1. Touch the wireless icon at the bottom left of the home screen
2. Begin the registration process by touching "Wi-Fi enable"
3. Press the network settings button to select your home wireless network
 - a. Select your network from the list of available networks or enter it manually
 - b. Enter your wi-fi password
4. Touch "Register", then enter your email address (twice)
5. An email will be sent to the email address you provided; open the email and click the link to confirm your registration
6. Setup your icomfort Wi-Fi account
7. Access your icomfort Dashboard or log on directly at www.myicomfort.com for account access, alerts and reminders, plus remote monitoring and control



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YOUR CUSTOMERS CAN DRESS UP THE POWERFUL FEATURES OF ICOMFORT WI-FI™ ANY WAY THEY WANT.



For another way to monitor and adjust your home temperature from anywhere at a glance, install the icomfort Wi-Fi™ app on your smartphone or tablet. Download it free!



CUSTOMIZABLE SKINS:

Customizable skin option allows your customers to cover and protect their thermostat with a removable decal that coordinates with their décor. Skins are available in any color, pattern or design, and your customers can use their own family photos or artwork.



To get started, go to www.gelaskins.com/Lennoxicomfort.

Date	Revision description
04-2012	Preliminary release