

USER'S INFORMATION MANUAL

Hx 3 TOUCH SCREEN THERMOSTAT

MODEL: S1-THXU430W

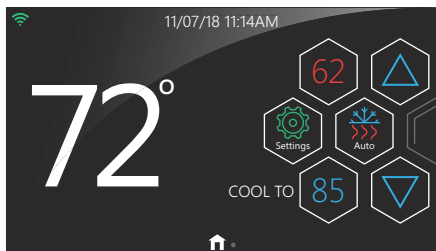


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Read all sections of this manual and keep the manual for future reference.



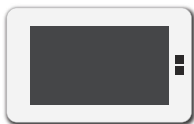
WARNING

Cancer and Reproductive Harm –
www.P65Warnings.ca.gov

PRODUCT DESCRIPTION

Content

The following figure shows the items in the Hx™3 Touch Screen Thermostat box:



Thermostat



User and Installer
Manual



Thermostat
Retaining Screws



Mounting Screws



Drywall Anchors

A0975-002

Figure 1: Content Overview

Figure 2 shows the tools required for installing the Hx 3 Touch Screen Thermostat. It is best practice that a qualified technician performs the installation.



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Figure 2: Tools for Installation

Features

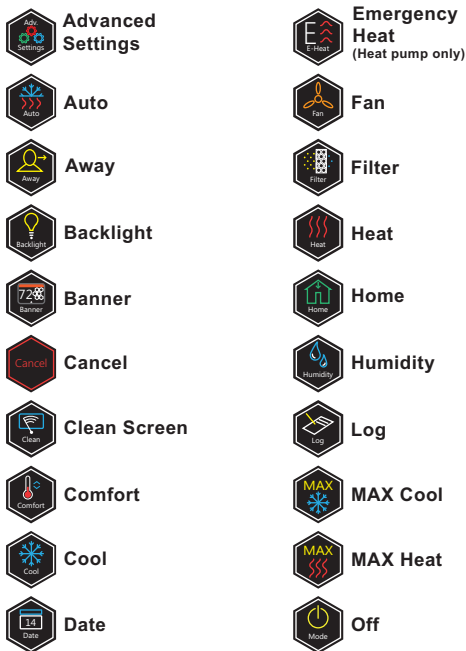
The following table describes the main features of the Hx 3 Touch Screen Thermostat.

Feature	Description
Control of heating and cooling outputs	Uses RS485 modbus
Indoor temperature sensing	> 0.5°F accuracy from 60°F to 90°F
Remote sensor	Connects to a standard 10k NTC thermistor (P/N: S1-02542683000)
Humidity sensing and display	Operates cool-to-dehumidify functionality and dehumidification/humidification functionality in communicating systems
Presence detection	Activates backlight when the thermostat sensor detects user presence
Near Field Communication (NFC) functionality	Used for passive/active limited data transfer
Wi-Fi connectivity	Supports 802.11 a/b/g/n standards and utilizes a Broadcom chipset
Cloud connectivity	Apple iOS and Android app available for user smartphone or tablet control
Optimized installation	Spring-loaded connectors that accept 16–24 AWG wire. A screwdriver is not required for wire insertion and removal.
Optimized boot time	3-second boot time before temperature is displayed and the thermostat is fully operational
4.3 in. TFT 320x240 QVGA color display	Enhanced 80° viewing angle in all directions
RS-485 communications bus	For modbus communication protocols
Over the Air (OTA) functionality	Can reprogram the board functionality Wi-Fi

THERMOSTAT CONTROLS

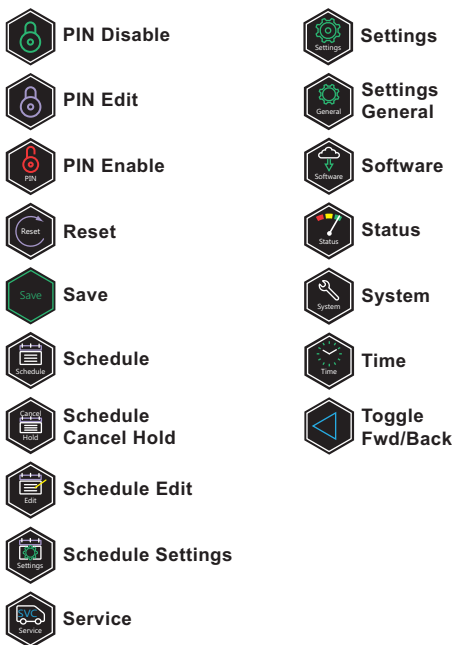
IMPORTANT: Never use sharp instruments, such as a pencil or pen, to tap touch screen controls or keys. To prevent damage to the thermostat, always tap keys with your fingertip.

To familiarize yourself with the thermostat controls, see Figures 3 and 4.



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Figure 3: Thermostat controls



A1190-001

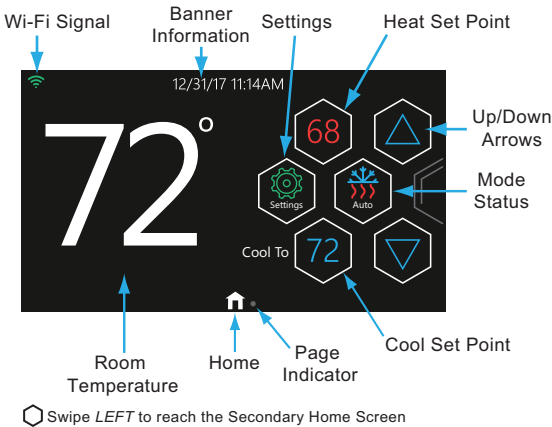
Figure 4: Thermostat controls

NOTICE

Do not spray any liquid directly on the thermostat. Spray liquids onto a cloth, and use the damp cloth to clean the screen. Use water or household glass cleaner. Do not use abrasive cleansers.

Home Screen

For a quick reference guide to the Home screen, see Figure 5.



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Figure 5: Home screen

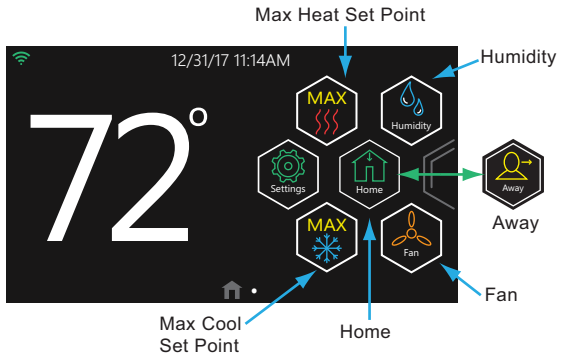
The Home and Secondary Home screens may differ slightly, depending on your heating and/or cooling system and the display settings of the thermostat.

Secondary Home Screen

On the Home screen, swipe left to reach the Secondary Home screen. The Secondary Home screen allows you to do the following:

- Access the Settings screen.
- Activate Max Heat mode or Max Cool mode.
- View and edit Humidity settings if enabled.
- Choose Home mode or Away mode.

For a quick reference guide to the Secondary Home screen, see Figure 6.

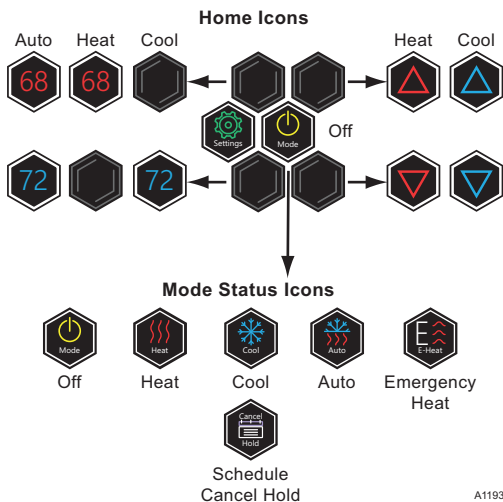


A1192-001

Figure 6: Secondary home screen

To return to the Home screen, swipe right or tap **Home**.

Modes of Operation



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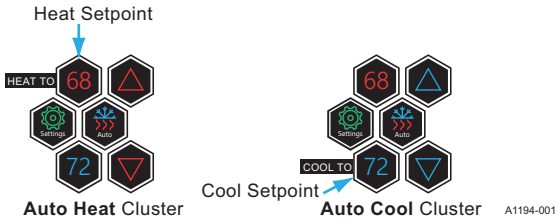
Figure 7: Home and mode status icons

On the Home screen, different modes of operation are available:

- Off mode: In this mode, no heating or cooling operation occurs.
- Heat mode: Use this mode for heating.
- Cool mode: Use this mode for cooling.
- Auto mode: Use this mode for automatic heating and cooling.

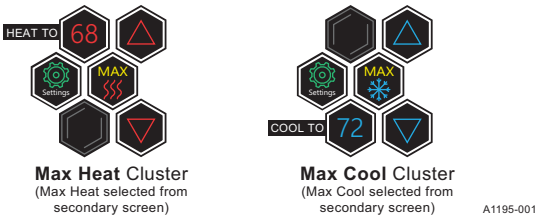
Activating Auto Mode

You can activate Auto mode on the Home screen. See Figure 5. For automatic heating, on the Home screen, tap the **Heat setpoint** (red) and use the Up/Down arrows to select the required setpoint. For automatic cooling, on the Home screen, tap the **Cool setpoint** (blue) and use the Up/Down arrows to select the required setpoint. See Figure 8.



Activating Max Heat Mode and Max Cool Mode

On the Secondary Home screen (see Figure 6), you can tap the **Max Heat** icon or the **Max Cool** icon to run equipment at maximum capacity for 10 minutes or until the temperature increases or decreases by 10°F respectively.



SETTINGS

Use the Settings screen to configure the thermostat settings. For an overview of the settings icons, see Figure 10.

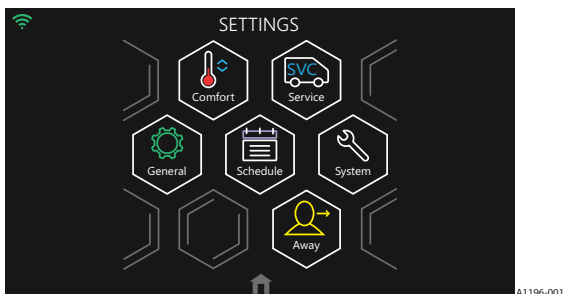


Figure 10: Settings icons

Tap the **Comfort**, **General**, or **System** icons to access the secondary settings screens (see below for the options available on each screen).

Comfort

Humidity (if enabled)
Fan

General

Advanced Settings
Clean Screen
PIN
Time/Date
Back light
Banner

System

Status
Log
Filter
Software

To configure a thermostat setting:

1. On the Home Screen or the Secondary Home screen, tap the **Settings** icon.
2. Tap the relevant icons to view or edit settings. For example, tap the **General** icon and then tap the **Time** icon to change the time the thermostat displays.
3. To return to the Settings screen, swipe left or right.

Away Mode

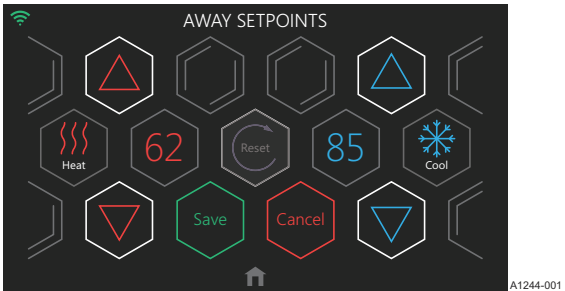


Figure 11: Away mode

Use Away mode to select setpoints outside the schedule. This is useful if you want to adjust heating and cooling for periods when you are not at home.

To enable Away mode:

1. On the Settings screen, tap the **Away** icon. Tap the heat or cool Up/Down arrows to select the required setpoint or tap **Reset**, tap **Save**, and return to settings.
2. On the thermostat Secondary Home screen, tap the **Home** icon. See Figure 6. The setpoints change to the Away setpoints on the thermostat and the app. The **Away** and **Cancel Hold** icons are visible on the Home screen of the thermostat and the app.
3. To disable, tap the **Away** icon on the thermostat or app. Alternatively, tap any **setpoint**, the **Cancel Hold** icon, or an Up/Down arrow. The setpoints change to the Home setpoints on the thermostat and the app, that is, the scheduled heating and cooling setpoints.

Humidity Settings

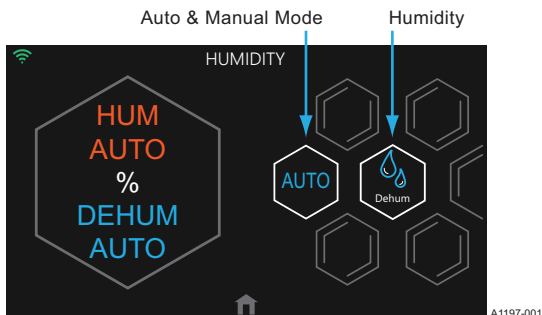
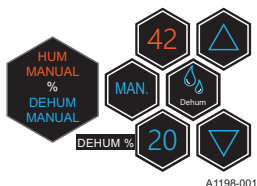


Figure 12: Humidity settings

To move between automatic and manual mode, tap **Auto** or **Man**. See Figure 12.



- In manual mode, you can change setpoints by tapping the Up/Down arrows.
- To choose the Humidify or Dehumidify setting, tap the **Humidity** icon.
- Auto mode automatically sets the Humidity setpoint based on indoor and outdoor temperatures.

NOTICE

Auto mode requires an outdoor sensor. If condensation appears on your windows, lower the Humidity setpoint or switch to Auto mode.

Fan Settings

To view or change the fan settings:

1. On the Secondary Home screen, tap the **Fan** icon.
2. Tap the Up/Down arrows to view or select fan settings as shown in Figure 13. For the different fan options, see Figure 14.



Figure 13: Fan screen



Figure 14: Fan options

CFM Percentage - Applies to Communicating Systems Only

The blue Up/Down arrows and CFM percentage only appear if the following apply:

- The fan operation is NOT in Auto mode.
- You are using communicating indoor equipment.

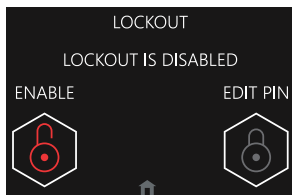


Lockout Settings

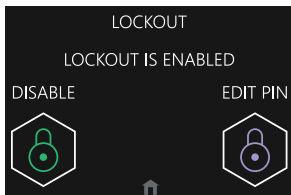
You can lock your thermostat by setting a PIN. You can do this to prevent someone from tampering with your thermostat, for example.

To activate the Lockout setting and set a PIN:

1. On the Home screen, tap the **Settings** icon.
2. On the Settings screen, tap the **General** icon, then tap the **PIN Enable** icon.
3. On the Lockout screen, tap the **Enable** icon. See Figure 15.
4. On the Set Pin screen, select a 3-digit PIN. Your PIN selection appears in the banner area. See Figure 17.
5. Tap **Save**. Your thermostat is now set to locked.
6. To edit or disable the PIN, on the Lockout screen, tap the **Edit PIN** icon or the **Disable** icon. See Figure 16.



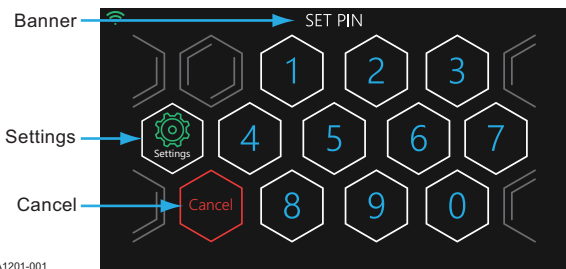
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Figure 15: Lockout disabled

Figure 16: Lockout enabled



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Figure 17: Set pin

Banner Information

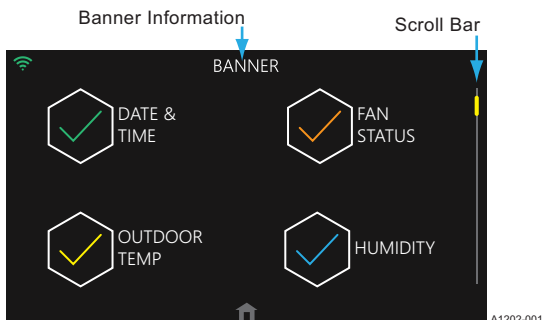


Figure 18: Banner information

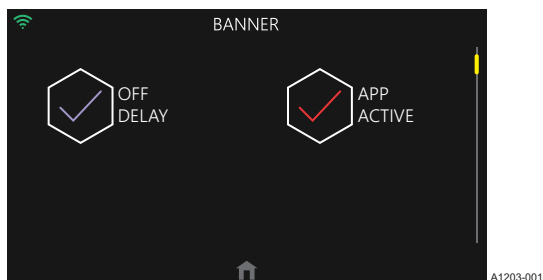


Figure 19: Banner information

To specify the information shown in the banner of the thermostat:

1. On the Settings screen, tap the **General** icon, then tap the **Banner** icon.
2. On the Banner screen, use the yellow scroll bar to view all of the available options.
3. Tap the buttons to enable or disable banner information. When a setting is enabled, a check mark is displayed.

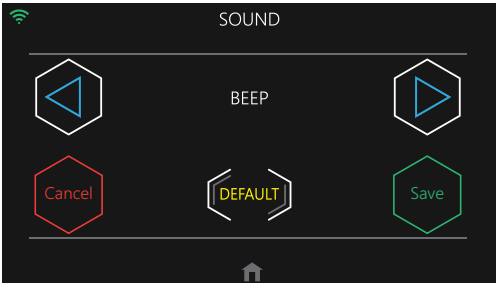
ADVANCED SETTINGS

To configure the thermostat, go to the Advanced Settings screen. See Figure 20. When you select an entry from the list of advanced settings, a selection screen similar to the one shown in Figure 21 displays.



A1204-001

Figure 20: Advanced settings



A1205-001

Figure 21: Advanced settings - sound

The following advanced settings are available:

- **Synch Time to Server:** If the thermostat is connected to a Wi-Fi router, both the date and time are synced with the server based on the timezone of the smart device used to connect the thermostat to the router.
- **Screen Timeout:** Allows you to specify how long the backlight of the thermostat remains on after you stop interacting with it. The options are **5, 10, 15, 20, 25, or 30** seconds.
- **Proximity:** Allows you to enable or disable presence detection. If you enable the proximity feature, the backlight of the thermostat activates when the thermostat sensor detects user presence.
- **Prox Sensitivity:** Allows you to adjust the sensitivity of the proximity feature. The default setting is medium and you can change this to high or low. High sensitivity increases the detection range of the thermostat sensor.
- **Daylight Savings:** Allows you to enable or disable Daylight Savings. The default setting is enabled.
- **Wireless:** Allows you to enable or disable the Wi-Fi functionality of the thermostat. The default setting is enabled.
- **Sound:** Allows you to adjust the thermostat sound. The options are **OFF, CLICK, or BEEP**. The default option is **CLICK**. See Figure 21.

Schedule

To access the Schedule functionality, go to the Settings screen, and tap the **Schedule** icon. You have the option to select one of the following:

Schedule Settings



Edit Schedule



Understanding Schedule Settings

On the Schedule Settings screen, tap the buttons to enable the required schedule settings. When a setting is enabled, a check mark is displayed. Use the scroll bar to view all options.

As shown in Figure 22, you can choose one of the following modes:

- **Programmable:** This mode allows you to set up heating and cooling setpoints for four periods in each day of the week. These periods are referred to as day parts in this document. When you select Programmable mode, the default schedule is displayed on the Schedule screen. You can edit the default schedule as required using the Edit Schedule screen.
- **Non-Programmable:** This means that the thermostat runs in a simplified mode that satisfies the selected heating or cooling setpoints. In this mode, the **Edit Schedule** icon does not appear because the scheduling functionality is disabled.

You can change the mode you have selected if required. To do so, go to the Schedule Settings screen and tap the button for the required mode.

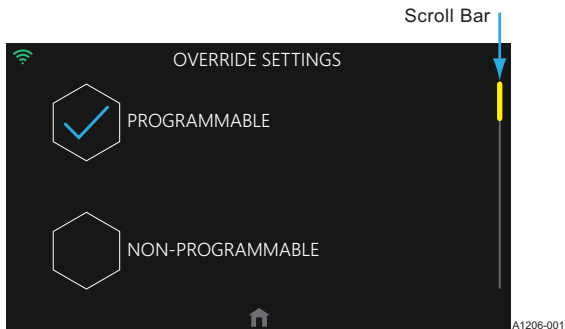


Figure 22: Schedule settings screen

Override settings are also available on the Schedule Settings screen. See Figures 23 and 24. These are only applicable in Programmable mode. If you want to suspend the set schedule, you can choose one of the following options:

- **Until Cancelled:** Overrides the schedule until you tap the **Cancel Hold** icon
- **Next Event:** Overrides the schedule until the next event occurs, that is, the next day part
- **Hours (1–12):** Overrides the schedule for the number of hours specified

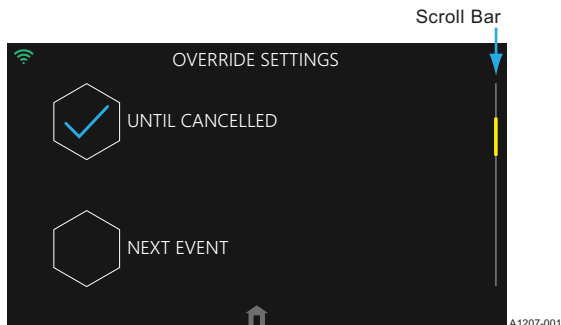


Figure 23: Schedule settings screen

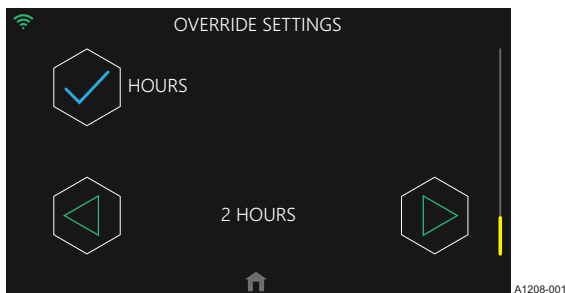


Figure 24: Schedule settings screen

When you select an override setting, if you tap the Up/Down arrows on the Home screen, the schedule **Cancel Hold** icon appears. Tap the **Cancel Hold** icon to revert the system to the set schedule. The **Cancel Hold** icon disappears.



Editing the Schedule

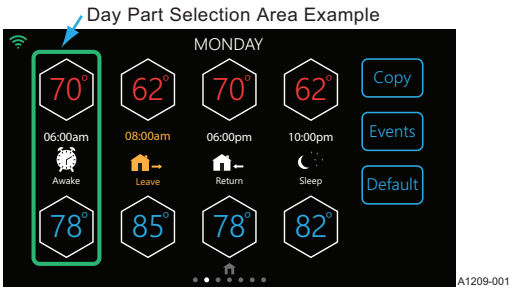


Figure 25: Schedule screen - default schedule

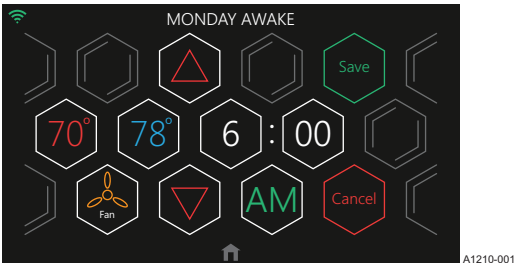


Figure 26: Edit schedule screen

To edit the schedule:

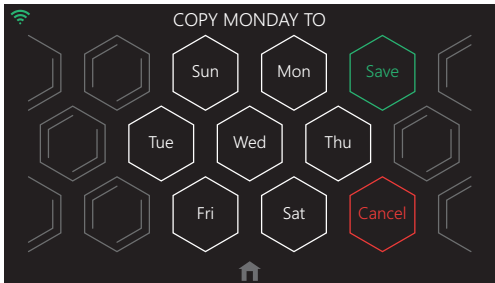
1. On the Schedule screen, swipe left or right to navigate to the day of the week that you want to edit, for example, Monday.
2. Tap the day part you want to edit, for example, Monday Awake. See the example outlined in green in Figure 25. The Edit Schedule screen appears.
3. Tap the **setpoint**, **time** (hour and minute), **period** (AM/PM), or **fan** for editing. See Figure 26.
4. Repeat step 1 to step 3 to edit the day parts in each day as required.

On the Edit Schedule screen, the Up/Down arrows change color based on the selected option:

- Red for heat
- Blue for cool
- Green for time

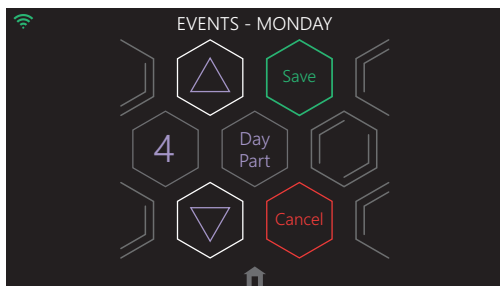
The following options are available on the Schedule screen:

- **Copy:** Allows you to copy the scheduled day to any other day of the week. See Figure 27.
- **Events:** Allows you to choose whether the schedule contains four day parts or two day parts. The default is four day parts. See Figures 28 and 29.
- **Default:** Allows you to reset the schedule to the default schedule. See Figure 25.



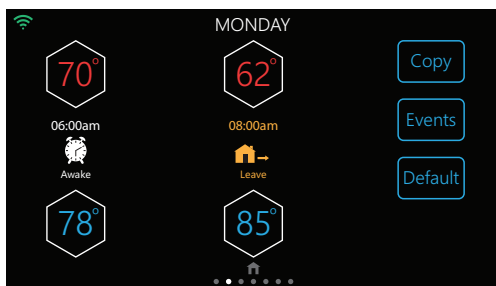
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Figure 27: Copy screen



A1212-001

Figure 28: Events screen



A1213-001

Figure 29: Schedule screen - two day part

Wi-Fi Network Status

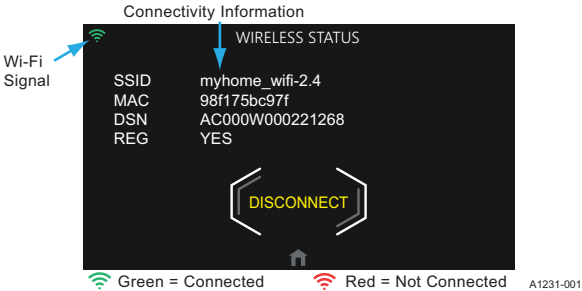


Figure 30: Wireless status screen

To connect the Hx 3 Touch Screen Thermostat to a Wi-Fi network, you must perform wireless setup using the Wireless Status screen and the Hx™ Thermostat app. Follow the instructions provided in the Wi-Fi Connectivity section.

To access the Wireless Status screen, tap the **Wi-Fi Signal Strength** icon in the banner area. On the Wireless Status screen, you can check Wi-Fi connectivity information. You can also disconnect from a Wi-Fi network if required. To do so, tap **Disconnect**.

NOTICE

Your HVAC system and thermostat will operate if the Wi-Fi connection is lost. Only Hx Thermostat app usage and software updates are affected when offline.

Hx THERMOSTAT APP

The Hx Thermostat app is available for Apple iOS at the App Store or Android devices at Google Play. Search for Hx Thermostat.

Registration and Login

Figure 31 is a screenshot of the 'Sign up' screen in the Hx Thermostat app. The screen features a dark background with a top navigation bar containing three options: '<Email' in yellow, 'Signup' in white, and 'Sign up' in yellow. The main heading 'Sign up' is displayed in white. Below the heading, a message states 'No account found for sarah@email.com' followed by 'Let's create a new one.' There are two input fields: 'First name' containing 'Sarah' and 'Last name' containing 'Smith'. A 'Sign up' button is located at the bottom of the screen.

A1411-001

Figure 31: Sign up

Figure 32 is a screenshot of the 'Check your email' screen in the Hx Thermostat app. The screen features a dark background with a top navigation bar containing two options: '<Email' in yellow and 'Confirmation' in white. A large blue and green paper plane icon is centered. Below the icon, the heading 'Check your email' is displayed in white. A message states 'To sign in, click the button in the email we sent to sarah@email.com'. An 'Open email' button is located below the message. At the bottom, text says 'You can also sign in with the token from that email:' followed by a 'Token' input field.

A1412-001

Figure 32: Check your email

Part 1: Register for a Hx Thermostat App account

1. Fill in email address and tap **Continue**.
2. If this is a first-time sign-up, follow the **Sign up** process, (see Figure 31), otherwise the app will display the **Check your email** screen. See Figure 32.
3. Check your email. Tap **Open email** (see Figure 32), tap **Sign in**, or use the token provided. If using the token, enter it in the **Token** field at the bottom of the **Check your email** screen (if it is not already populated). See Figure 32.

NOTICE

*Only one email account can be registered to a Hx 3 Touch Screen Thermostat. If more than one user needs to use the app, use the same email address when logging in on additional phones or tablets. **Do not** create additional accounts for your thermostat. Creating an additional account will unpair your device from the first account.*

Wi-Fi Connectivity

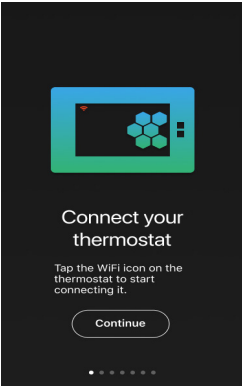
You must complete wireless setup to connect the thermostat to a Wi-Fi network.

NOTICE

*Ensure that your smart device is connected to Wi-Fi. If your Wi-Fi router is a dual band router, confirm that your smart device is connected to the 2.4 GHz frequency. **Do not** connect your smart device to the 5 GHz frequency.*

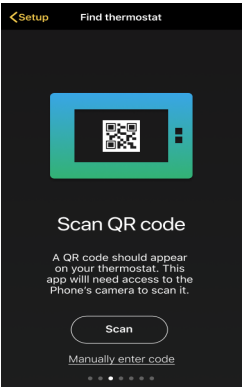
Part 1: Prepare for wireless setup

1. Ensure the **Connect your thermostat** screen is visible. See Figure 33.
2. Tap **Continue** and follow the step-by-step process presented in the app.
3. If the app fails to pair to the thermostat, follow the **Scan QR code** process presented in the app. See Figure 34.
4. If the QR code is not available, tap **Manually enter code** (see Figure 34) and enter the 12-digit SSID in the field provided. See Figure 35.



A1413-001

Figure 33: Connect your thermostat



A1414-001

Figure 34: Scan QR code



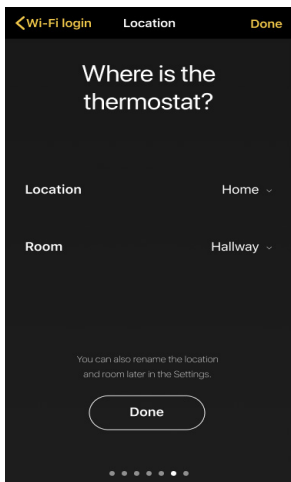
A1415-001

Figure 35: Enter SSID

Part 2: Complete wireless setup

NOTICE

You **must** connect the thermostat to the 2.4 GHz frequency on dual band routers.



A1416-001

Figure 36: Wireless location

1. Select the network Wi-Fi.
2. Enter the password.
3. Enter the location name, for example, Home. The location name is a name for the thermostat. See Figure 36.
4. Enter the room name, for example, Living room. The room name that you choose is displayed in the room name pull-down menu of the app Home screen. See Figure 37. Wireless setup is now complete.

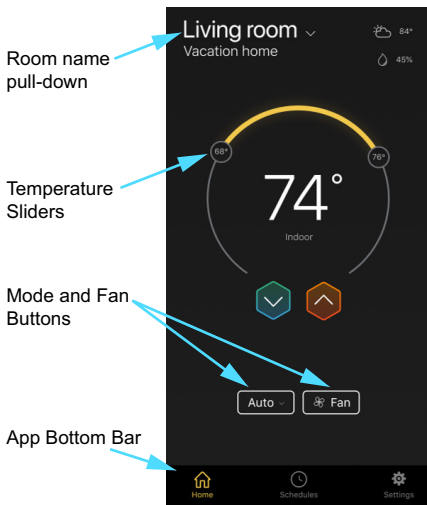
IMPORTANT: If the smart device fails to connect, on the thermostat Wireless Status screen, tap the **Wi-Fi** icon, tap **Disconnect**, and repeat step 1 to step 4.

NOTICE

The smart device might be connected to the RIPL network. In this case, go to the smart device settings and, under Wi-Fi, choose the option to forget the RIPL network.

App Home Screen

Both the app and the thermostat update with changes you make to either.



A1417-001

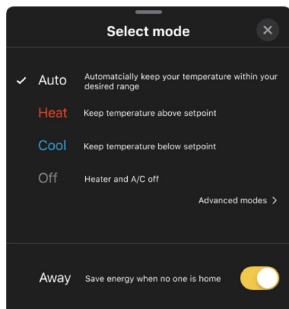
Figure 37: App home screen

Indoor room temperature can be adjusted with the up/down arrows or by selecting the temperature slider or sliders depending on mode.

To access thermostats, tap on the room name pull-down menu (see Figure 38) and select desired room or place. To exit without changes, tap the (X) icon in the upper right of the screen.

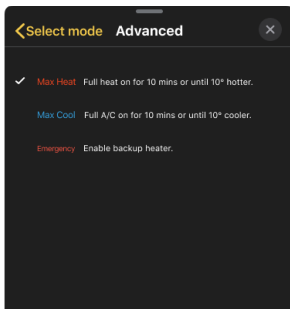
Select mode

- Tap the mode button for mode options (set to **Auto** in Figure 37). The **Select mode** screen will appear with equipment-specific modes: **Auto**, **Heat**, **Cool**, and **Off**. See Figure 38.
- Tap **Advanced modes** to select **Max Heat**, **Max Cool** and **Emergency** heat. See Figure 39. (*Some modes are equipment-specific and may not be available.*)
- **Away** mode can be enabled or disabled by selecting the toggle button. When enabled, Away will be visible on the App Home Screen mode button. (See **Settings** to edit Away mode.)
- To exit without changes, tap the (X) icon in the upper right of the screen.



A1418-001

Figure 38: Select mode



A1419-001

Figure 39: Advanced modes

Select fan options

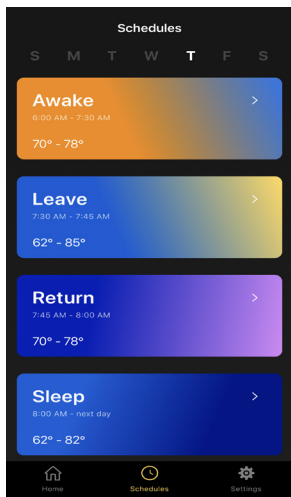
- Tap the fan button for options: **Auto**, **Run always**, **Run 15 min/h**, **Run 30 min/h**, or **Run 45 min/h**. If the system is communicating any option other than **Auto**, Airflow percentage adjustments are possible.

Navigate the app bottom bar

The app bottom bar allows the user to always have access to three key items in the app (see Figure 37):

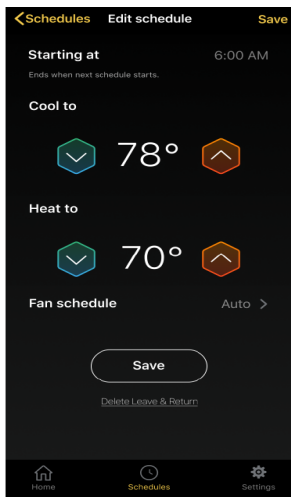
- **Home**: Navigates the user back to the App Home Screen.
- **Schedules**: Opens the Schedules screen (see Schedules section on page 31).
- **Settings**: Opens the Settings screen (see Settings section on page 33).

SCHEDULES



A1420-001

Figure 40: Schedules screen



A1421-001

Figure 41: Edit Schedule

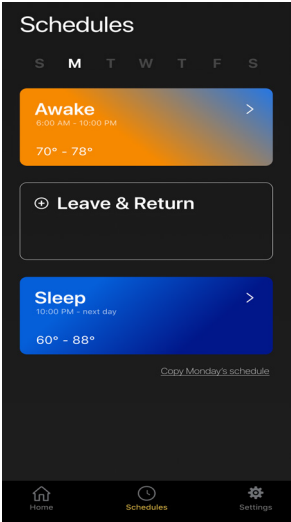
You can use the Schedule and Schedule Hold Length settings to manage the thermostat schedule. To adjust the schedule:

1. From the App Home Screen bottom bar, select **Schedules**.
2. The current day will be represented as a letter and highlighted at the top of the screen. To navigate to another day, tap on the letter of that day.
3. Tap the day part you want to edit, for example, **Awake** (see Figure 40). The Edit Schedule screen appears.
4. Tap to edit **Starting at** time or **Fan schedule**, or use the up/down arrows to adjust **Cool to** and **Heat to** temperatures. Select **Save** at the bottom or top of the screen to confirm changes. To exit without changes, tap **Schedules** in the upper left of the screen or any icon in the app bottom bar.

5. Repeat step 2 to step 4 to edit the day parts in each day as required.

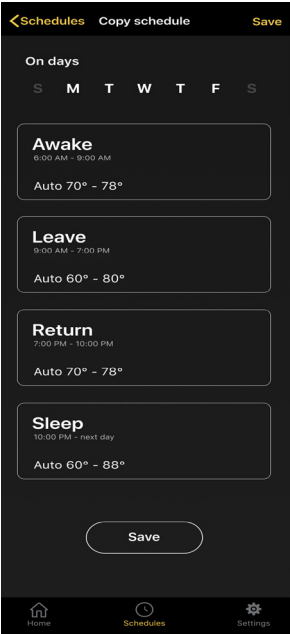
The following options are available on the Schedules screen:

- **Default:** Allows you to reset the schedule to the default schedule.
- **Events:** For a two day part schedule, tap the **Leave** event, then, at the bottom of the screen, tap **Delete Leave & Return**. To add these events back tap **(+) Leave & Return**. See Figure 43.
- **Copy:** Allows you to copy the schedule of one day to any other day of the week. See Figure 44.



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Figure 42: Two day part option



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Figure 43: Copy schedule option

SETTINGS

To access the app settings, tap the **Settings** icon on the app bottom bar. The settings are explained below.

About Hx

Software version, Help, Terms & Privacy

Rate

Do you like or dislike what you see? Feel free to use this function to rate this app.

Submit feedback

Follow the in-app process for submitting feedback on the Hx Thermostat app.

Temperature unit

Fahrenheit or Celsius

Logout

Log out of the app.

Add thermostat

Follow the step by step process presented in the app, similar to the *Register for a Hx Thermostat App account* process.

Names

Rename Locations & Zones (if system is zoning).

Dealer: Add and edit dealer, grant or revoke dealer access. (For more details, see **Managing Dealer Access** section on page 35.)

Schedule

Use the toggle button to select the **On** or **Off** option. When you select Programmable mode, the **Schedule Hold Length** functionality is enabled.

Notifications

Enable or disable any of these options: **Extreme temperature**, **Excessive humidity**, **Service reminders**, and **Faults**. Each option has a toggle to enable or disable push notifications.

Away

Enable or disable Geo-fencing. Use **Away** mode to select setpoints outside the schedule.

Vacation (Zoning only)

Enable or disable vacation mode and set temperature range.

Humidity

Adjust humidify and dehumidify setpoints manually or set to **Auto** mode.

System info

View thermostat software and **System logs**. Under **System logs**, you can email system logs to the dealer.

Delete thermostat

Delete a thermostat from the app.

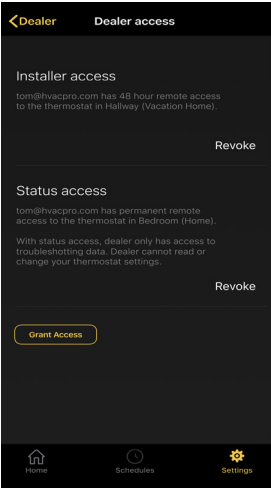
Connect Alexa

Please see *Amazon Alexa Setup* section on page 40.

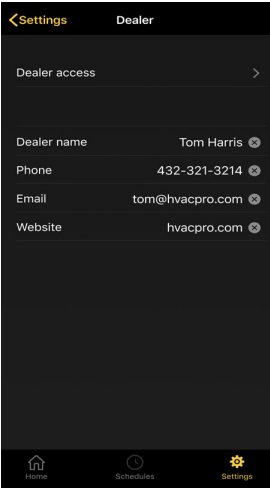
MANAGING DEALER ACCESS

You can allow dealers to access your system, for example, to enable them to view the system and diagnose issues. You do this through the **Grant dealer access** screen, which is accessible if you receive an email from the dealer requesting access. See the *Granting Dealer Access* section for more information. The **Dealer access** screen provides an overview of the different permission levels. You can use the **Dealer access** screen to view and revoke dealer access as needed.

If you have not given a dealer access to your system, the **Dealer access** screen displays the text **No access granted yet**. See Figure 48. If you have granted a dealer access to your system, the **Dealer access** screen is populated with information about this access. See Figure 44.



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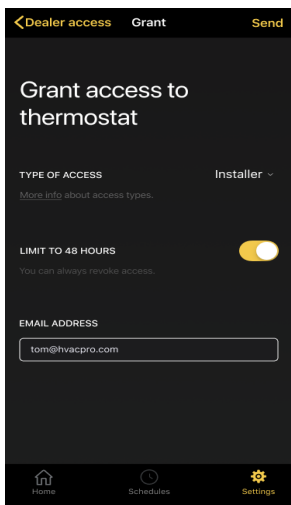
Figure 44: Dealer access screen

Figure 45: Dealer information

Granting Dealer Access

If a dealer wants to access your system, you receive an email request. This email contains a link that is specific to your smart device. You must use your smart device to open this link.

You can not review the dealer access options if you open the link using your PC, laptop, or Mac. When you select the link, the **Grant dealer access screen** appears. On this screen, you can change the role type, duration, and locations as needed, and grant access to the dealer.



A1426-001

Figure 46: Grant dealer access

Using the Access Types Screen

On the **Grant dealer access** screen, under TYPE OF ACCESS, tap the **More info** text line to access the **Type of access** screen. See Figure 46. The **Type of access** screen helps you to understand:

- Installer, Diagnostic, and Status role permissions
- Access duration (permanent and temporary)

Revoking Dealer Access

You can revoke dealer access at any time. To do so, go to the **Dealer access screen** and tap **Revoke** on the relevant thermostat. See Figure 44.

GEO-FENCING

Use the toggle button to enable or disable the Geo-fencing feature. Zoom in and out of the map to specify a region boundary within 1 mile to 25 miles of your home (the scale adjusts accordingly). When enabled, the Geo-fencing feature triggers specific actions when your smart device enters or exits the specified region. When your smart device exits the region, you receive a notification to remind you to set **Away** mode. When your smart device enters the region, **Home** mode is automatically enabled and the setpoints change to the **Home** setpoints.

NOTICE

*You must enable Locations and Notifications on your smart device for the Geo-fencing feature to function. The **Geo-fencing** screen may vary between smart devices.*

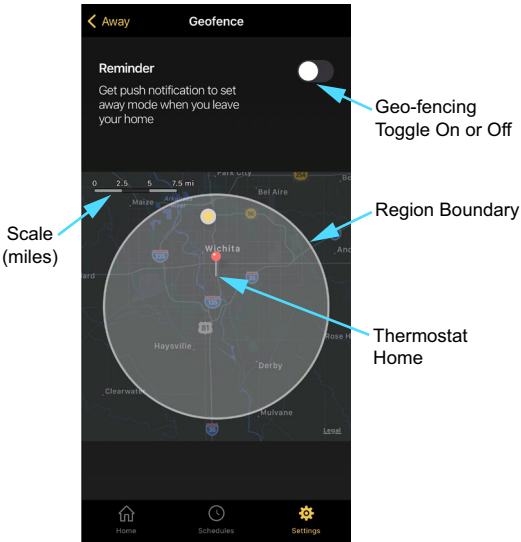


Figure 47: Geo-fencing

AMAZON ALEXA SETUP

You can use Alexa with the Hx 3 Touch Screen Thermostat. Ensure that Alexa is installed, enabled, and connected to your home Wi-Fi network, and that the Alexa app is installed on a smart device.

From the **Settings** screen, tap **Connect Alexa** and follow the in-app instructions. See Figure 48.

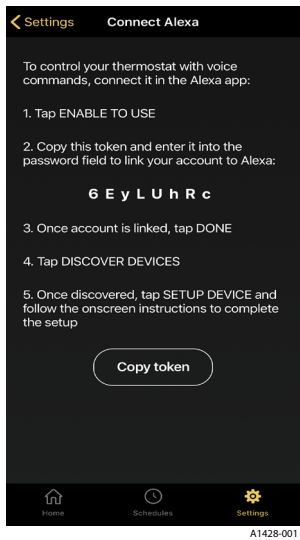


Figure 48: Connect Alexa screen

Using Alexa in Celsius

If required, you can use degrees Celsius rather than degrees Fahrenheit as the unit of temperature in Alexa. To do so:

1. From the smart device, in the Alexa app, tap **Settings**.
2. Locate and select Celsius as the unit of temperature.

Alexa Skill Voice Commands

The following table provides examples of Alexa skill voice commands.

Command	Utterances
Set device temperature	"Alexa, set {Room Name} to {number} degrees"
	"Alexa, set {Room Name} to {number}"
	"Alexa, set the {Room Name} temperature to {number} degrees"
	"Alexa, change the {Room Name} to {number} degrees"
	"Alexa, turn {Room Name} temperature to {number} degrees"
Increase device temperature	"Alexa, increase the {Room Name} temperature to {number} degrees"
	"Alexa, increase the temperature to {number} in the {Room name}"
	"Alexa, increase the temperature to {number} degrees in the {Room Name}"
	"Alexa, raise the {Room Name} by {number} degrees"
	"Alexa, make {Room Name} warmer by {number} degrees"
	"Alexa, increase the {room Name} temperature by {number} degrees"
Decrease device temperature	"Alexa, decrease the {Room Name} temperature by {number} degrees"
	"Alexa, lower the {Room Name} temperature by {number} degrees"
	"Alexa, cool down {Room Name} by {number} degrees"
	"Alexa, decrease the {Room Name} temperature to {number} degrees"
	"Alexa, decrease the temperature to {number} in the {Room Name}"
	"Alexa, decrease the temperature to {number} degrees in the {Room Name}"

Command	Utterances
Turn device fan off	"Alexa, turn off {Room Name fan}"
Turn device fan on	"Alexa, turn on {room Name fan}"
Change mode	"Alexa, turn {Room Name} to Cool"
	"Alexa, turn {Room Name} to Heat"
	"Alexa, turn {Room Name} to Auto"
	"Alexa, turn {Room Name} Off"

APPLE WATCH SETUP

To use the Hx Thermostat app on the Apple Watch:

1. Pair the Apple Watch to an iPhone.
2. Download the Hx Thermostat app to the iPhone.
3. Log in to the Hx Thermostat app. Note that the interface on the Apple Watch is similar to the interface on the iPhone.
4. Follow Apple requirements for Apple Watch connectivity to iPhones.



Figure 49:
Heat mode

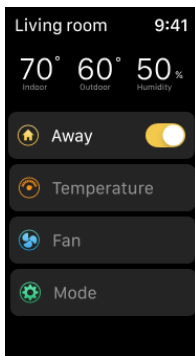


Figure 50:
Home screen on
Apple Watch



Figure 51:
Select zone screen

Using the Hx Thermostat app on the Apple Watch is similar to using it on your smart device. Note these tips:

- **Modes:** Tap to view the **Heat**, **Cool**, and **Auto** modes.
- **Setpoints:** To increase and decrease the temperature, tap **Temperature** and turn the Digital Crown on the Apple Watch.
- **Multiple Locations:** In the app, tap the room name, for example, Living room, to view multiple locations.

Third-Party Trademarks Notice: For information about third-party trademarks, refer to the relevant company websites.

NOTES

Limited Warranty

Residential Thermostats

WARRANTY TERMS: Johnson Controls Unitary Products (hereinafter "Company") warrants this product to be free from defects in factory workmanship and material under normal use and service and will, at its option, repair or replace any parts, without charge, subject to the exclusions below, that prove to have such defects according to the terms outlined in this warranty. Company reserves the right, at its sole discretion, to provide a replacement unit in the place of repair parts, in which case the warranty period for the replacement unit is limited to the remainder of the original warranty period. Alternatively, Company may, at its option, extend a replacement allowance to be applied toward the purchase of a new unit marketed by Company. The exact amount of the allowance will be determined at the discretion of Company, based upon current market conditions, but in no case shall this allowance exceed thirty (30) percent of the original consumer purchase price of the unit excluding such items as ductwork, wiring, piping, and installation costs. The warranty period for repair or replacement parts or unit provided hereunder shall not extend beyond the warranty period stated below. Company shall have no responsibility hereunder for installation, shipping, handling, or other charges except as specifically provided herein.

This warranty covers only the equipment described by the Product Model Number and Unit Serial Number on the equipment or listed on the Warranty Registration Card, and applies only to products installed in the United States, Canada, or Puerto Rico. Tampering, altering, defacing, or removing the product serial number will serve to void this warranty. This warranty extends only to the original consumer purchaser and is nontransferable. For this warranty to apply, the product must be installed according to Company recommendations and specifications, and in accordance with all local, state, and national codes; and the product or residence must not be removed from its place of original installation. This warranty does not apply to any unit sold over the Internet, by telephone or other electronic means unless the dealer that buys or sells a unit over the Internet, by telephone or other electronic means also installs the unit. In the absence of a recorded Warranty Registration Card, the warranty period will begin upon product shipment from Company. If you are unaware of the date the warranty became effective, contact Company at (877) 874-7378 or visit

www.upgproductregistration.com.

FOR PRODUCT REGISTRATION: For your benefit and protection, register your product with Company promptly after installation. This will initiate the warranty period and allow us to contact you, should it become necessary. You can register your product online at www.upgproductregistration.com or by returning the Warranty Registration Card on the back page of this packet.

Product Model Number: _____ Installation Date: _____

Unit Serial Number: _____ Installing Dealer: _____

FOR WARRANTY SERVICE OR REPAIR: Notify your Installing Dealer or a Participating Dealer, preferably in writing, as soon as possible after discovery of the problem. Be sure to include the Product Model Number, Unit Serial Number, Installation Date, and a description of the problem. You may find the Installing Dealer's name on this page or on the equipment, and you can locate Participating Dealers online.

If a Dealer response is not received within a reasonable amount of time, notify Company at: Johnson Controls Unitary Products, Consumer Relations, 5005 York Drive, Norman, OK 73069 or by telephone at (877) 874-7378. All warranty service or repair will be performed during regular business hours, Monday through Friday 9:00 AM - 5:00 PM. Service requests sent to Company without prior Dealer contact will be referred back to a Participating Dealer. Because this process takes time, it is in the best interest of the Consumer to contact a Participating Dealer directly.

WARRANTY PERIOD: The warranty period in years, depending on the part, is as shown in the chart below (see next page).

MODEL	DESCRIPTION	PARTS
S1-THXU280*, S1-THXU430W	Hx™ TOUCH SCREEN THERMOSTAT	5 Years

MAINTENANCE: Company strongly recommends regular periodic preventive maintenance on this equipment. The person most familiar with the equipment in your HVAC system is a Participating Dealer. The Participating Dealer can ensure that your maintenance program meets the "Company Warranty" conditions, maximize the equipment efficiency, and service your unit within the mandated guidelines with regard to unlawful discharge of refrigerants into the atmosphere.

EXCLUSIONS: This warranty does not cover any:

1. Shipping, labor, or material charges or damages resulting from transportation, installation, or servicing.
2. Damage or repairs required as a consequence of mishandling, faulty installation, misapplication, abuse, improper servicing, unauthorized alteration, or improper operation.
3. Damages or failure to start resulting from improper voltage conditions, blown fuses, open circuit breakers, or other inadequacy or interruption of electrical service or fuel supply.
4. Fuses, either internal or external to the product.
5. Labor or other costs incurred for diagnosing, repairing, removing, installing, shipping, servicing, or handling of either defective parts or replacement parts.
6. Products removed from their original location for re-installation purposes.
7. Damages resulting from accident, abuse, fire, flood, alteration, or acts of God.
8. Damages resulting from use of the product in a corrosive atmosphere.
9. Normal maintenance, or damages resulting from failure to perform normal maintenance, as outlined in the installation and servicing instructions or owner's manual.
10. Cleaning or replacement of filters, nozzles, or orifices.
11. Damages resulting from operation with inadequate supply of air or water; Damages resulting from failure to properly and regularly clean air and/or water side of condenser and evaporator.
12. Damages resulting from: (I) freezing of condenser water or condensate; (II) inadequate or interrupted water supply; (III) use of corrosive water; (IV) fouling or restriction of the water circuit by foreign material or like causes.
13. Damages caused by improper parts, components or accessories not suitable for use in or with the unit. For a list of parts that are known to be compatible please reference the equipment renewal parts list, contact a Participating Dealer for assistance, or call 1-877-874-7378.
14. Electricity or fuel costs, or increases in fuel or electric costs, for any reason including additional or unusual use of supplemental electric heat.

This warranty is in lieu of all other express warranties. All implied warranties, including the implied warranty of merchantability and fitness for a particular purpose are limited in duration to the actual warranty period applicable to the part. Some states do not allow the disclaimer of implied warranties, so the above disclaimer may not apply to you. In addition, some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. In no event, whether as a result of breach of warranty or contract, tort (including negligence), strict liability, or otherwise, shall Company be liable for special, incidental, or consequential damages or expenses, including but not limited to loss of use of the equipment or associated equipment, lost revenues or profits, cost of substitute equipment, or cost of fuel or electricity.

The above limitations shall inure to the benefit of Company's suppliers and subcontractors. The above limitation on consequential damages shall not apply to injuries to persons in the case of consumer goods. Company does not assume, or authorize any other person to assume for Company, any other liability for the sale of this product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights. You may also have other rights which vary from state to state.