



SERVICE AND APPLICATION NOTES

Apple HomeKit

Wi-Fi Accessory Configuration (WAC), HomeKit Pairing, Remote Access Configuration, iCloud Account and Sharing Access

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APPLICABLE THERMOSTATS

iComfort E30 and S30 1.0 and 2.0 Thermostats running Firmware Version 003.40.00 or later.

INTRODUCTION

Apple HomeKit technology provides an easy, secure way to control your home's lights, doors, thermostats, and more from your iPhone®, iPad®, iPod touch® or Apple Watch®.

To control this HomeKit-enabled accessory, iOS 10.3.1 or later is recommended.

Controlling this HomeKit-enabled accessory automatically and away from home requires an Apple TV® with tvOS 10.3 or later or an iPad with iOS 10.3 or later.

Apple, Apple Watch, iPad, iPad Air, iPhone and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. HomeKit and HomePod are trademarks of Apple Inc.

Use of the Works with Apple HomeKit logo means that an electronic accessory has been designed to connect specifically to iPod touch, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

SETUP OVERVIEW

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

- Out of the Box Setup Procedure during Thermostat Commissioning.
- Out of the Box Setup Procedure after Thermostat Commissioning.
- HomeKit Manual Setup

For more information about Apple Homekit, go to:

<https://www.apple.com/ios/home>

The most current information provided by Lennox is available on the consumer portal at:

www.lennoxicomfort.com

Go to the bottom right-side of the page and select the **click here for support** icon.

APPLE ICLOUD ACCOUNT

Your Apple ID is the account you use to access Apple services like the App Store, Apple Music, iCloud, iMessage, FaceTime, and more. And you can sign in to all Apple services with a single Apple ID and password.

REMOTE ACCESS

With the Home app, on your iOS device, you can set up a home hub to control your HomeKit accessories remotely, grant access to the people you trust, and automate your accessories to do what you want, when you want. You can set up your HomePod, Apple TV 4K, Apple TV (4th generation), or iPad as a home hub to automate and remotely control your HomeKit accessories from your iOS device. The device that you set up as a home hub must remain in your home, connected to your home Wi-Fi network, and powered on.

WI-FI CONFIGURATION AND PAIRING PREREQUISITES

The following is required in order to setup Wi-Fi and pairing your thermostat to Apple Homekit:

- You are located in the home where the E30 or S30 system is located.
- The home's wireless access point is up and running with Internet access.
- Your iOS mobile device's Wi-Fi is enabled and already connected to your home wireless network.
- Registered and active iCloud account

THERMOSTAT - HOMEKIT SETUP

The following procedure is used when Apple Homekit was not configured during the thermostat's commissioning phase. This procedure could also be used if the thermostat had been configured by a previous homeowner.

1. From the thermostat's home screen, go to **menu > settings > Home Kit**. Select **HomeKit factory reset**.

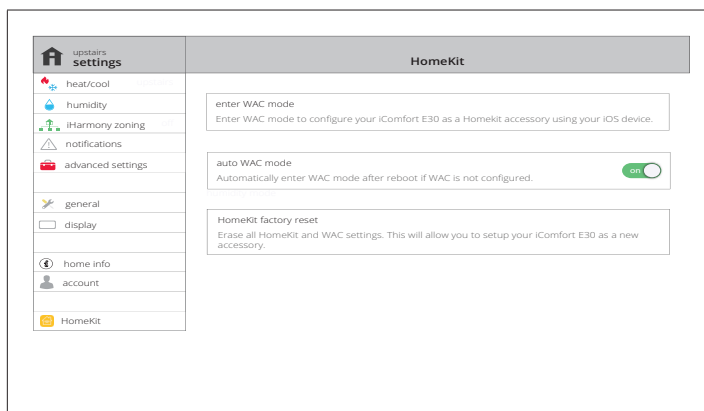


Figure 1. HomeKit Menu

2. A pop-up screen will appear asking you to confirm that you want to reset to default. Select **YES** to continue.

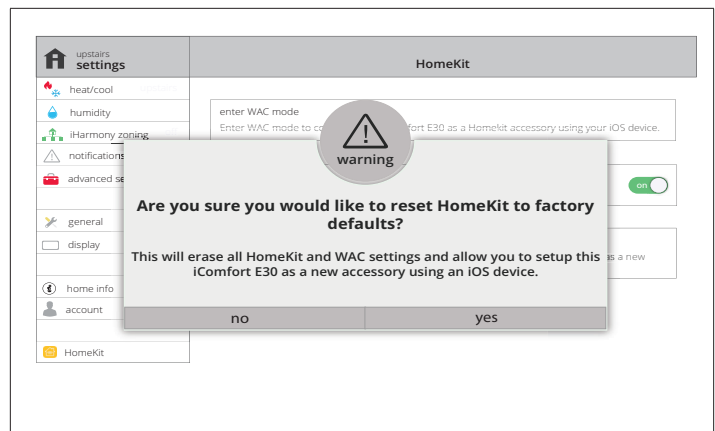


Figure 2. HomeKit Reset Screen

3. The following screen indicates that the thermostat is ready for configuring iOS device to begin WAC.

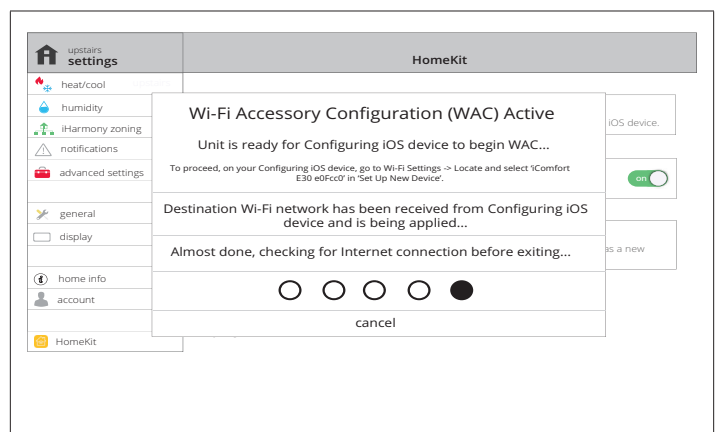


Figure 3. Wi-Fi Configuration

4. Proceed to "Wi-Fi Accessory Configuration (WAC)" on page 2 to continue the procedure.

Wi-Fi Accessory Configuration (WAC)

1. The Wi-Fi Accessory Configuration (WAC) Active screen provides three setup status indicators. Those are:
 - Unit is ready for Configuring iOS device to begin WAC
 - Destination Wi-Fi network has been received from Configuring iOS device and is being applied
 - Almost done, checking for Internet connection before exiting.

NOTE: You will receive an error message indicating "network not configured" if the procedure failed.

NOTE: If there is no Internet connection available, you will get an error message indicating "Internet connection not available".

2. Go to your iOS device's Wi-Fi utility and look for either E30 or S30 and a unique ID (example: S30 e0fc37). Select that SSID. Under **Setup New Device**, you should see iComfort S30 e0fc37.

NOTE: Please note that e0fe7 is an example and is a variable. Each E30 or S30 thermostat will have its own unique alpha-numeric sequence.

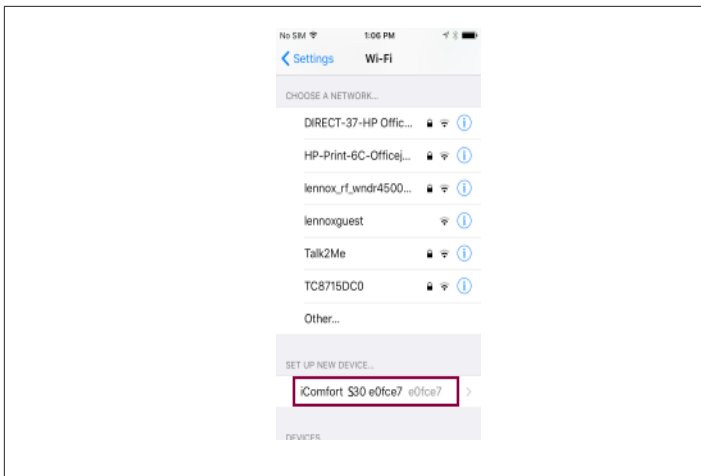
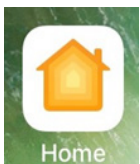


Figure 4. Setup New Device

3. Select the iComfort device to continue.
4. Under **Accessory Setup**, you should see a message indicating the accessory will be set up to join “your local network”.
5. Press **Next** to continue. If successful, you should see a accessory join message.

Apple HomeKit Pairing

1. To add the thermostat to a specific home if you have more than one. Go to your Apple Home application on your mobile (iOS) device and FIRST select the home.



2. Select **Add Accessory**

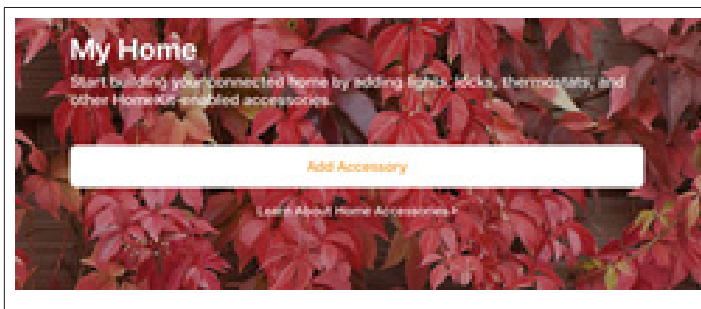


Figure 5. Typical Example of iComfort Accessory Selection

3. Select a iComfort S30 (or E30).

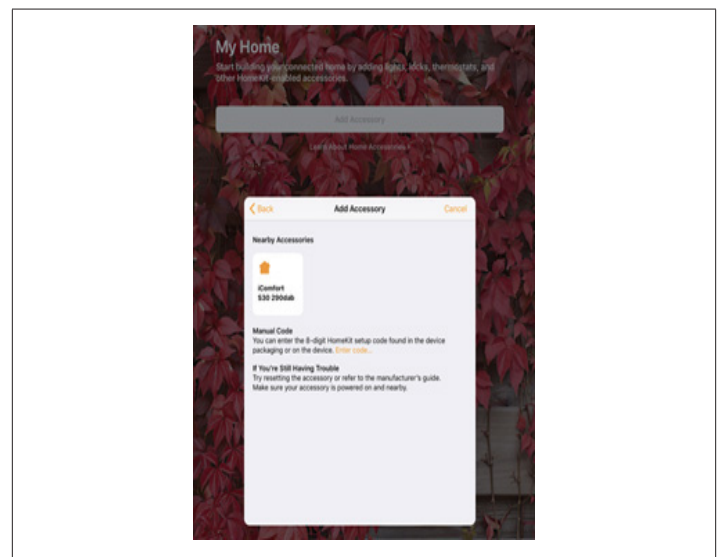


Figure 6. Typical Example of iComfort Accessory Selection

4. The next screen will ask you to allow the accessory access to your network. Select **Allow**.
5. A screen will appear on your Thermostat. Use your iOS device's camera to read the pairing code that appears on the thermostat's screen.
6. Use camera.

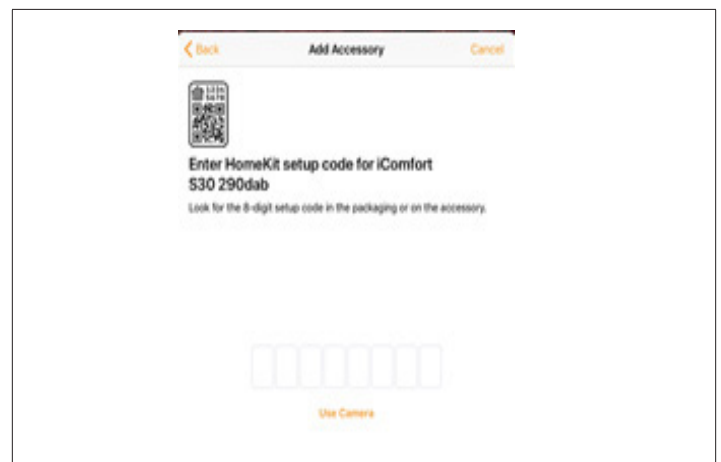


Figure 7. Use Camera to Read Code

NOTE: If your camera is unable to read the code, you will be given the opportunity to manually enter the code.

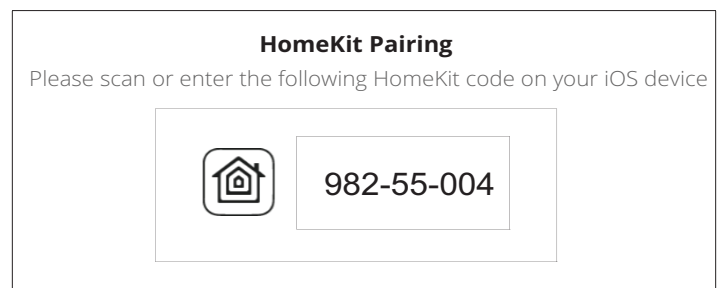


Figure 8. Pairing Code

NOTE: You have 15 minutes to complete the procedure or it will time out at the thermostat.

- The following screens will indicated the pairing was successful.

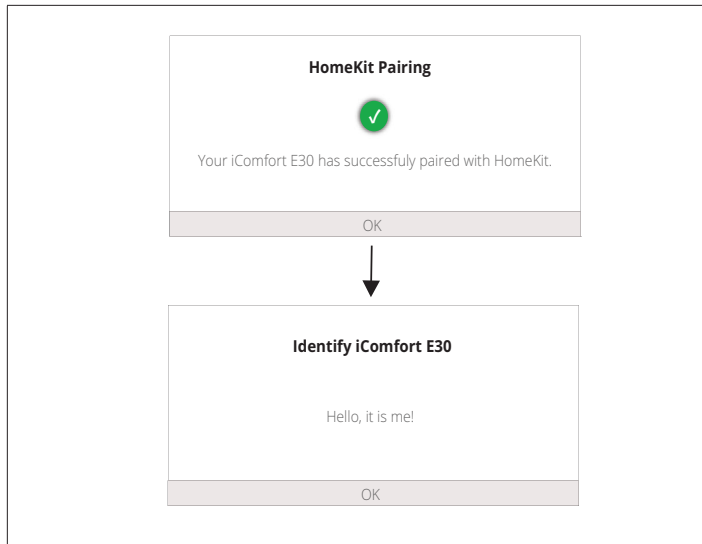


Figure 9. Pairing Successful

- Your E30 or S30 thermostat has been added to Apple Homekit. You can at this point assigned a location for the thermostat and include in your favorites.

Additional Thermostat HomeKit Menu Options

There are several functions available from the HomeKit menu.

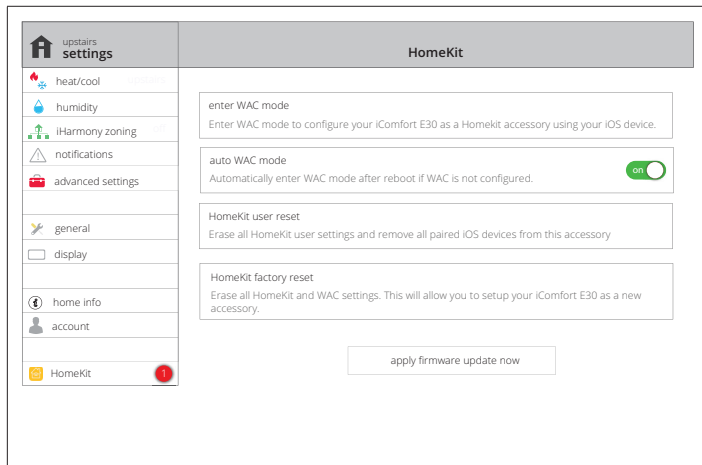


Figure 10. HomeKit Menu

Enter WAC Mode

This option is for changing to a new wireless access point or updating the existing wireless access point password.

Auto WAC Mode

By default this option is set to **ON**. If the thermostat has never been connected to the home's wireless access point or a HomeKit Factory Reset was initiated. Anytime the thermostat's power is cycled or restarted, the Wi-Fi Accessory Configuration (WAC) Active screen will always appear on thermostat boot-up. Selecting **OFF**, will disable this function.

NOTE: The thermostat can be restarted by going to **menu > settings > advanced settings > restart and select restart smart hub or restart both**

HomeKit User Reset

This option allows you to remove any existing Apple HomeKit user settings and paired iOS devices. The thermostat however will retain it's Wi-Fi connection settings. This option will only appear if the thermostat has already been added to a user's iCloud account.

HomeKit Factory Reset

This option allows you to remove any existing thermostat Wi-Fi settings, Apple HomeKit user settings and paired iOS devices. Use this option if you wish to remove the thermostat's Wi-Fi settings and set the Apple HomeKit function back to factory default.

Proceed to "Wi-Fi Accessory Configuration (WAC)" on page 2 to continue the procedure.

Apply Firmware Update Now

If the button is visible, it indicates there is a firmware update available. Select the button to update the Apple HomeKit firmware if you desire to do so. Once started a pop-up will appear indicating that "Homekit firmware update is in progress. Please wait..."

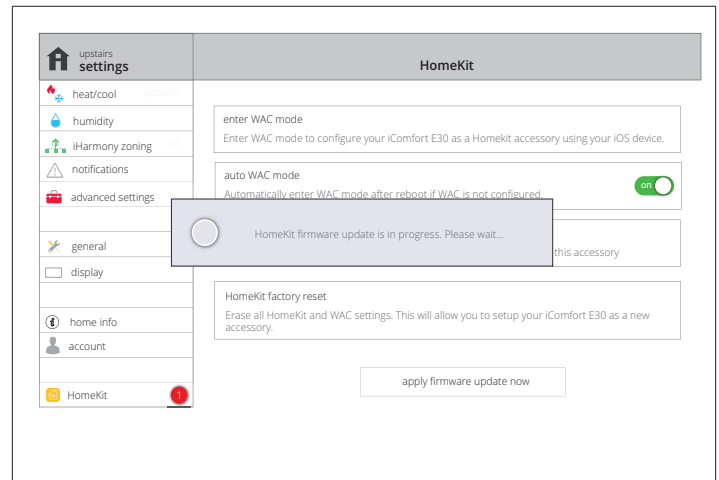


Figure 11. Firmware Update Progress Indicator

Factory Reset Smart Hub

If your service technician needs to reset your E30 or S30 Thermostat, there is an option not to erase the Apple HomeKit settings if already configured.

1. The first screen to appear is the factory reset Smart Hub, the technician will select **confirm** to continue.
2. A second screen will appear that provides the option to reset, or not reset the Apple HomeKit settings to factory default. Select **NO**, to keep the settings.

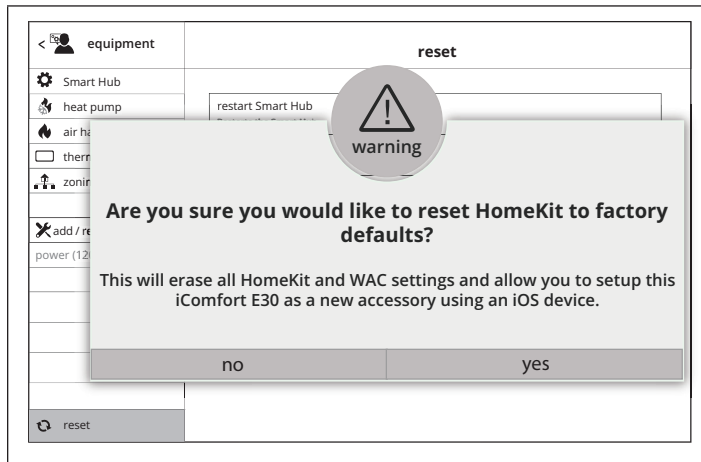


Figure 12. Apple HomeKit Factory Reset

Notifications or Actions Required

If there are notifications or actions required for Apple Homekit, a notification icon will appear on the home screen in the upper right-hand corner of the screen.

Currently there is only one purpose for this notification and that is to notify you that a Apple HomeKit firmware update is available. See “Apply Firmware Update Now” on page 4 for further details.

Once the updated firmware has been applied, the notifications will disappear next to the HomeKit menu option. It will also disappear from the home screen.

NOTE: There could be other active notifications not related to HomeKit.

The following example shows there is action required for the HomeKit option.



Figure 13. HomeKit Notification

HOW TO SETUP APPLE TV AND CONFIGURE FOR HOMEKIT AS A HUB

Setup Apple TV

1. Plug into power - Plug your Apple TV into power. If you want to connect to the Internet using Ethernet, connect your Apple TV to your router with an Ethernet cable. (Wi-Fi setup comes later.)
2. Connect to your home-theater devices - With an HDMI cable, plug your Apple TV directly into your television. On Apple TV 4K, make sure that you're using an HDMI 2.0 or later cable. Or, if you use a receiver or HDMI switch box, use an HDMI cable to plug your Apple TV directly into your receiver or switch box. If you're connecting a Apple TV 4K to a receiver, make sure that it also supports HDMI 2.0 or later. Then use a second HDMI cable to connect the receiver or switch box to your television.
3. Turn on your television to find the setup screen
 - a. Turn on your television (and receiver or switchbox) to see the Apple TV setup screen.
 - b. Don't see the setup screen? On your television, check that you selected the same input that you connected your Apple TV to. For help, use your television manual. If you still don't see the setup screen or hear any audio, learn what to do.
Go to <https://support.apple.com/en-us/ht200197> for additional help.

4. Connect your remote - To connect your devices, press to click the Touch surface of your remote.

NOTE: If your remote won't connect, press and hold the Menu and Volume Up buttons for five seconds. Or if a message says that you aren't close enough, set your remote on top of your Apple TV.

5. Pick language settings - Swipe on the Touch surface of your remote to find your language and country or region. To choose an option, click the Touch surface. If you see the wrong language, press the Menu button to return to the previous screen and try again. Or, if you want to start over, unplug your Apple TV from power, then plug it back in. If asked, choose whether to use Siri.
6. Set up using your iPhone or other device - To transfer settings from your iOS device to your Apple TV, like login information for iTunes, iCloud, and Wi-Fi, choose Set Up with Device. Follow the on-screen steps on your iOS device and Apple TV.

NOTE: If you have issues with the “Set Up with Device” process, press Menu on your remote to return to the previous screen and choose Set Up Manually.

Configure Apple TV as HomeKit Hub

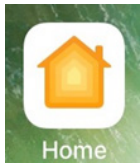
1. Open Settings on your Apple TV.
2. Scroll down and click to open Accounts.
3. Make sure you're signed in with your Apple ID.
4. Click to open iCloud.
5. Scroll down to HomeKit and check to see that it says Connected.
6. If the HomeKit setting reads Not Connected, click to connect.

Apple TV Setup Videos

<https://www.youtube.com/watch?v=Yw7tW5qfQHg>

<https://www.youtube.com/watch?v=EBGXQyvJIEQ>

APPLE HOMEKIT APP



From the Home screen look for this icon to launch Apple HomeKit which will allow you to operate your thermostat.

Select the Home icon to proceed. The following screens allow access to the thermostat functions.

During the setup process, you should have assigned your thermostat or zones to a specific room location. The following is an example of room selection from the Apple Home App.

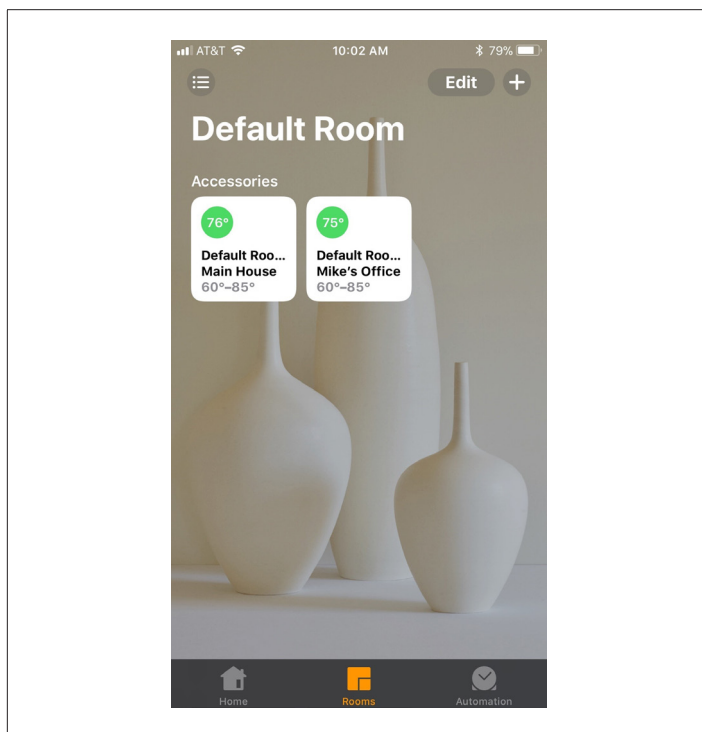


Figure 14. HomeKit Room Selection

The following screen examples the option to set the operating mode of the systems.

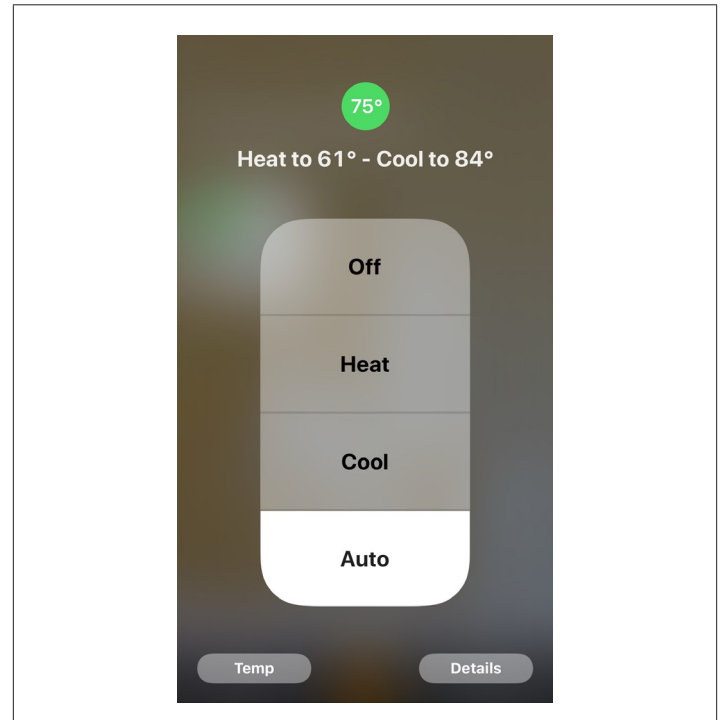


Figure 15. HomeKit Mode Selection

This last screen is an example on temperature adjustment using the Apple HomeKit app. Use the slider to move up or down to the desire temperature.

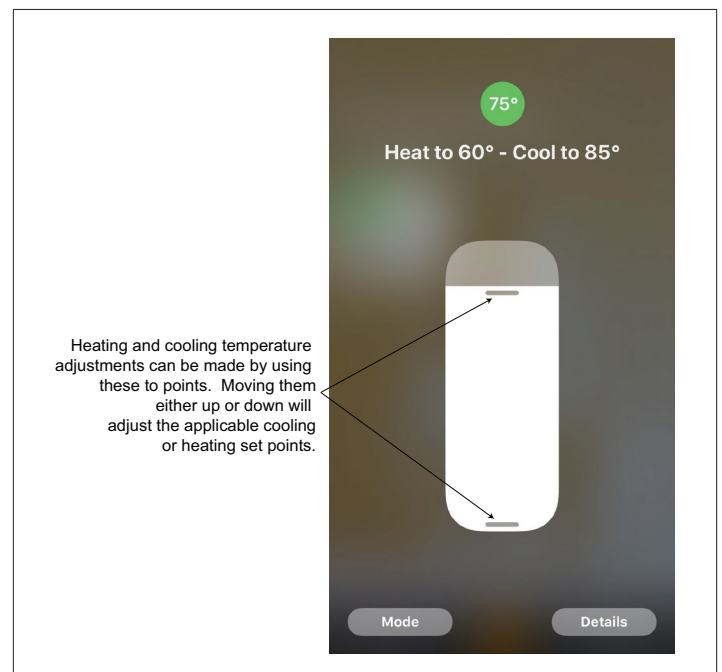


Figure 16. HomeKit Temperature Adjustment Tool

Selecting the Details icon will provide additional information for the room.

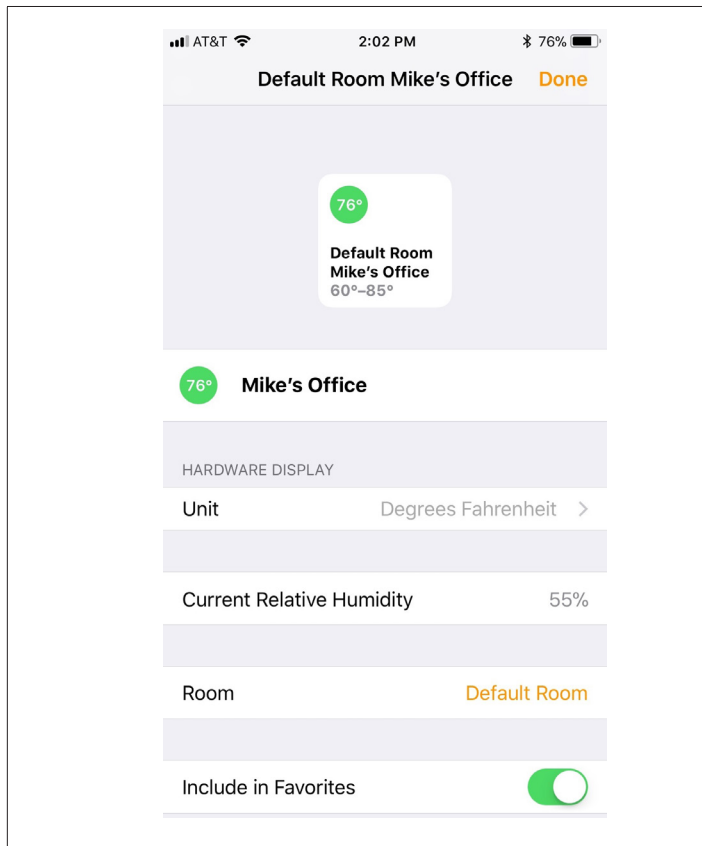


Figure 17. HomeKit Room Detail Screen

HomeKit Access with Others

How to Share

Adding a current member of your household or guest is as simple as knowing their Apple ID and having them accept a banner prompt. Here's how to go about doing it.

1. Open the Settings app on your iPhone.
2. Scroll down to the HomeKit option and select it.
3. Tap on your home.
4. Tap Invite People.
5. Enter the iCloud address of the person you wish to add to your home.
6. On their device, press the Accept button on the banner (or have them go to Settings > HomeKit if they miss the banner).

How to Remove

If your guest's tenure has ended, you're not going to want to give them indefinite access to your home. Here's how to remove someone's HomeKit access from your accessories.

1. Open the Settings app on your iPhone.
2. Scroll down to the HomeKit option and select it.
3. Tap on your home.

4. Swipe left on the person's name.

5. Tap Delete.

NOTE: The thermostat will still need to be deleted from the guest phone even though they will not have access to your Apple HomeKit network.

Adding or Removing Thermostats - Apple HomeKit

Adding Thermostats

Go to each thermostat and proceed with the procedures outline in "Thermostat - HomeKit Setup" on page 2.

NOTE: Make sure that each thermostat has a unique name assigned to it.

NOTE: Additional thermostats will also need to be added to the Lennox HomeKit Companion App. See "Figure 20. Lennox Companion App Menu Selection" on page 8 for adding thermostats.

Removing Thermostats

Go to a room using the specific thermostat and at the bottom of the screen is a option to "remove accessory". Select that to remove the applicable thermostat from Apple HomeKit.

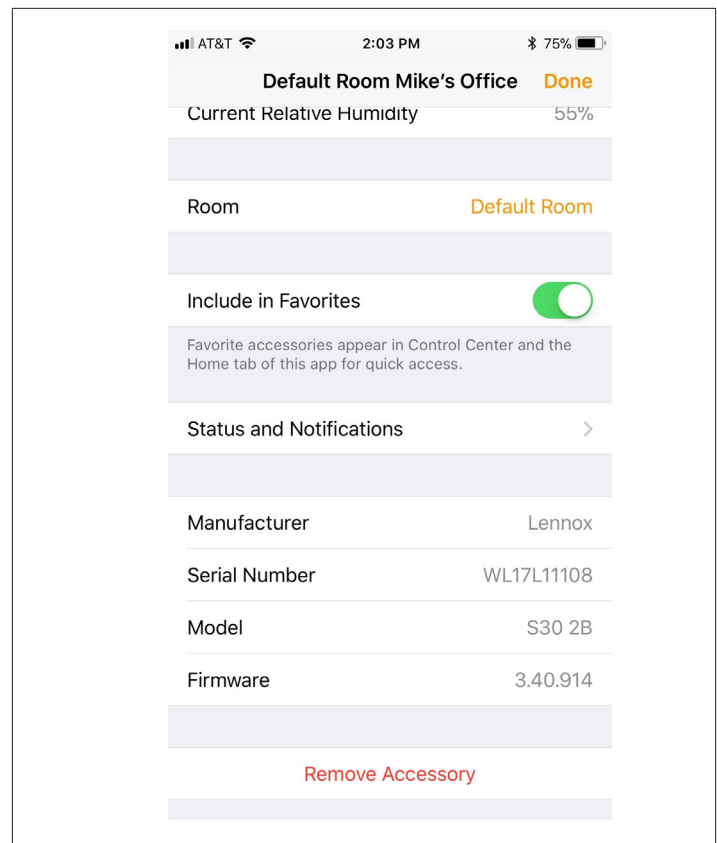


Figure 18. HomeKit Room Detail Screen

HOMEKIT - LENNOX ICOMFORT COMPANION APP



The Lennox iComfort Companion App is found at the Apple App store with other Lennox Apps. Use **your** Apple account and password to login. The Lennox iComfort Companion App is a Home Kit requirement by Apple for Lennox to have its own Apple Home Kit App available. The main difference between the Lennox iComfort Companion App and the Apple Home Kit App is the screen layout and ways to make adjustments. See previous section for Apple Home Kit screens and below for the Lennox iComfort Companion App.

Home Screen

The Lennox iComfort Companion App has the same look and interaction as the Lennox consumer portal app. However with the HomeKit App and the Lennox iComfort Companion App you do not have the ability to adjust additional zone temperature or settings just the main thermostat (zone).

NOTE: The main difference between the Lennox Thermostat App and the HomeKit iComfort Companion App is that no internet access is required to adjust the thermostat while in the home and connected to the local home Wi-Fi network. The companion app, just like the Apple HomeKit app, can communicate directly with the thermostat.

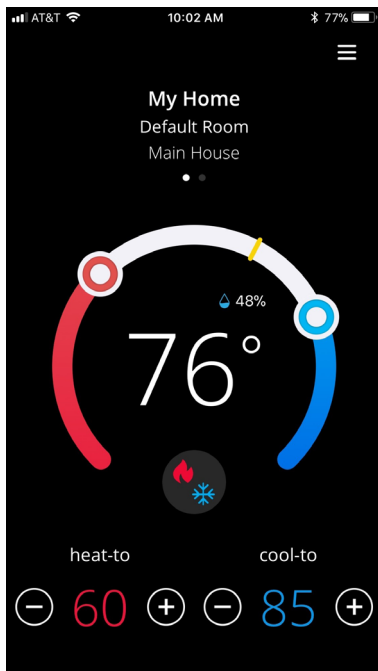


Figure 19. Lennox Companion App Home Screen

Menu Options

When selecting the menu icon in the upper-right corner of the screen, additional information and settings are available.

Options are:

- Home Settings
- Room Settings
- Thermostat Settings
- Adding Thermostats (also required when thermostats are added through the Apple HomeKit App).
- Privacy Policy and App software version.

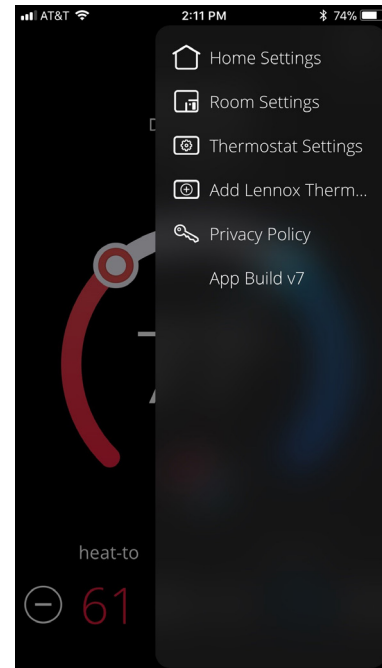


Figure 20. Lennox Companion App Menu Selection

