

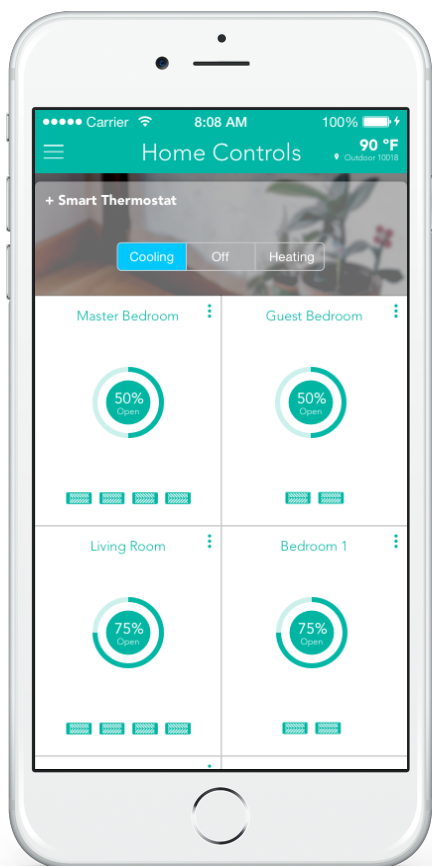
Smart Vent System + ecobee3

Setup Guide

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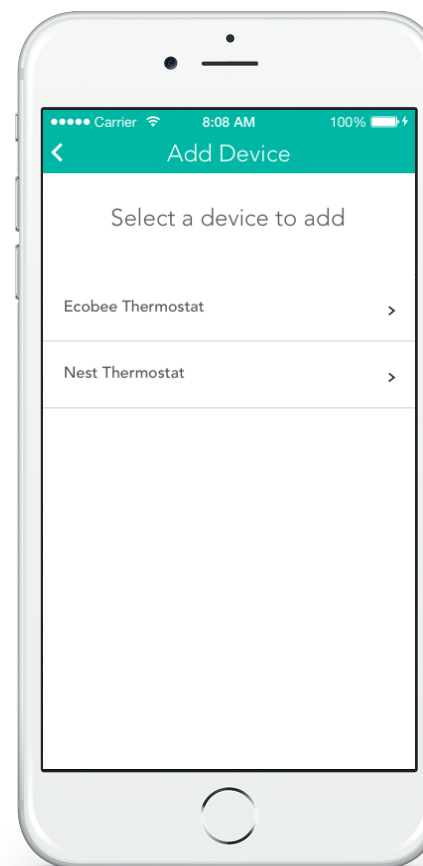
How to Connect

1



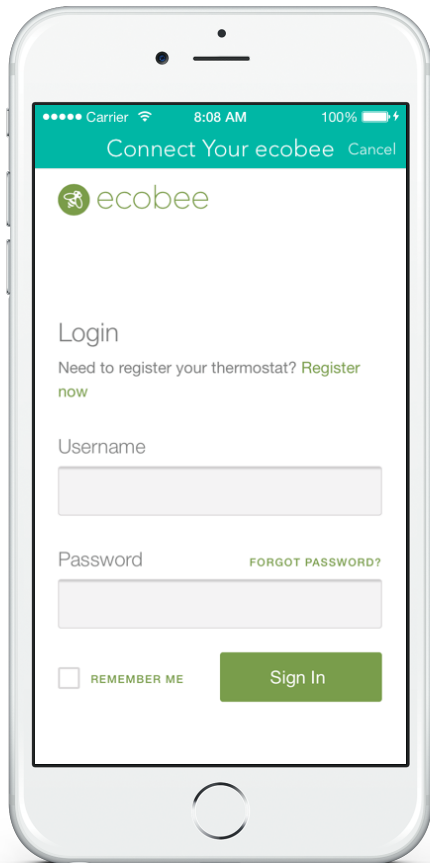
Tap "+ Smart Thermostat" in the top left corner of your Keen Home app.

2



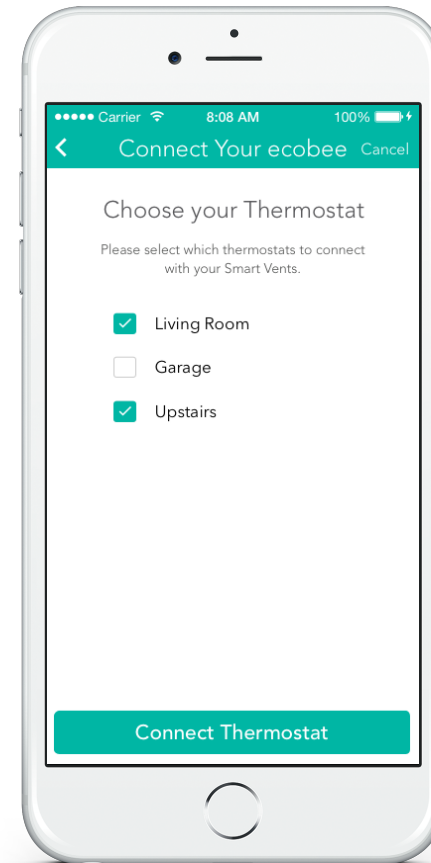
Tap "Ecobee Thermostat" in your devices list.

3



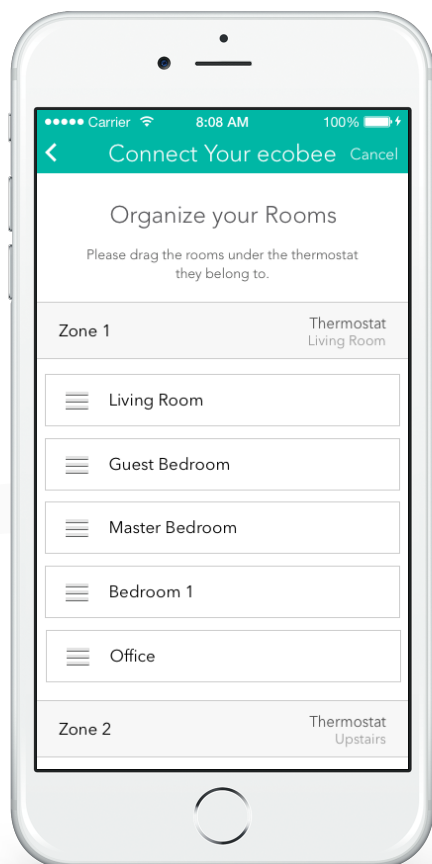
Follow the on-screen instructions to authenticate your Keen Home account with your ecobee account. Keen Home will automatically pull in all information about other ecobees and room sensors in your home.

4

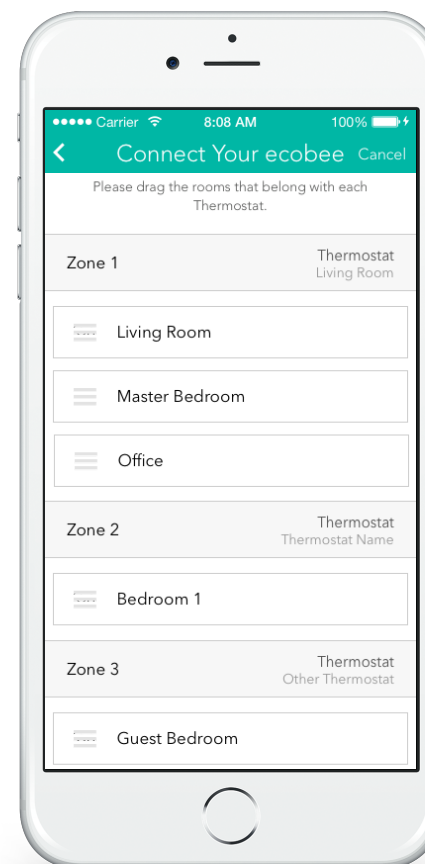


If you have multiple ecobee3s in your home, choose which ones to add to your Keen Home app.

5

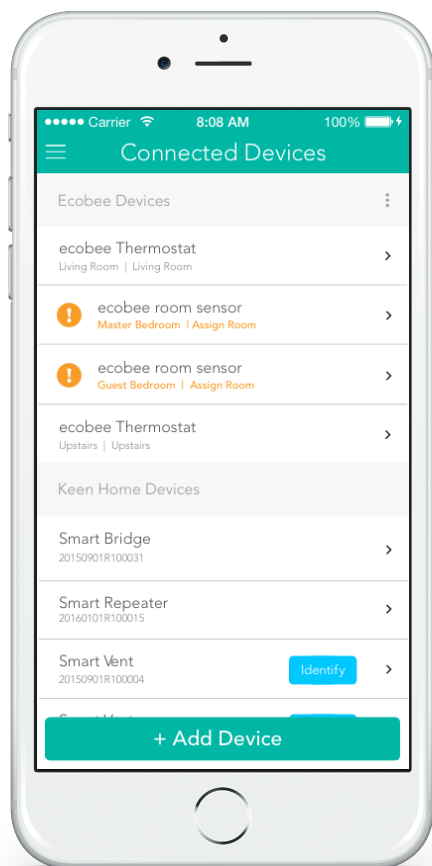


Once your ecobee3 is added, organize the rooms of your home into their appropriate zones.



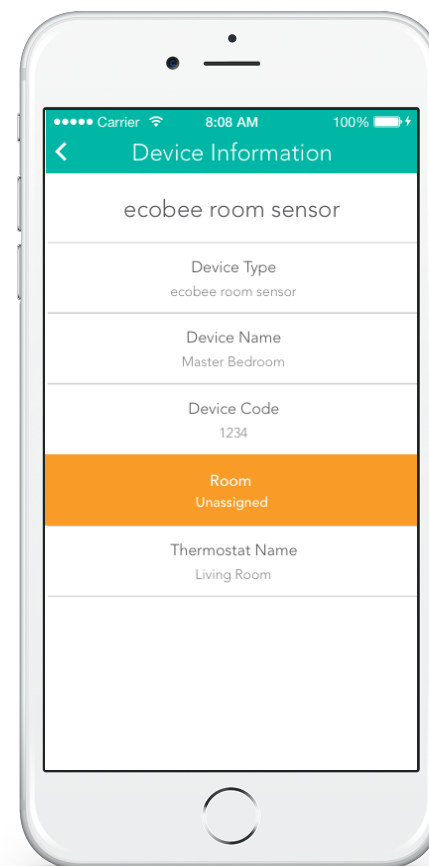
You can also assign rooms to an "Other" zone if you have rooms that are not part of an ecobee thermostat.

6



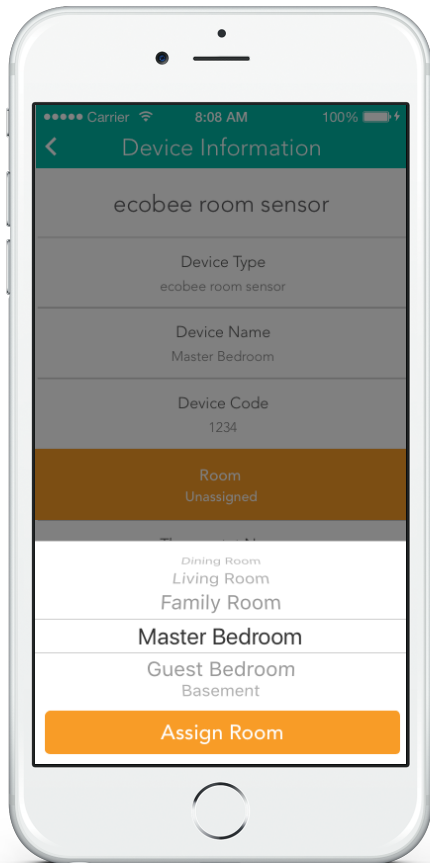
Now assign a room sensor to a specific room. Tap on a sensor you want to assign.

7



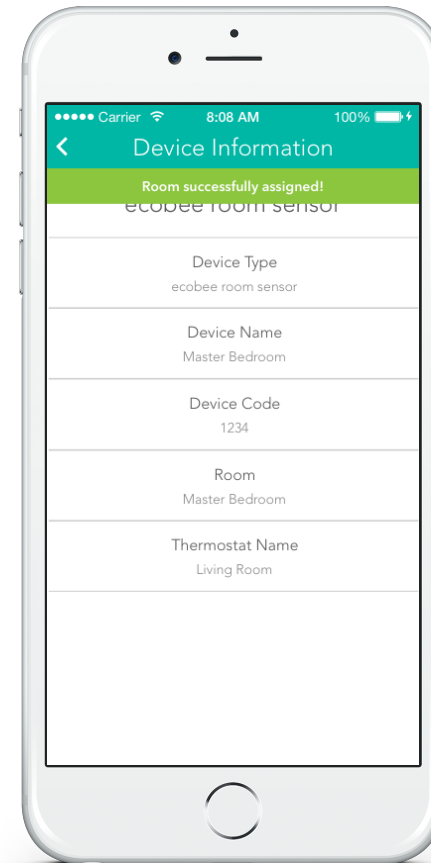
Select "Room" to assign your ecobee room sensor to work with a Keen Home Smart Vent.

8



Select the room in which the sensor is located.

9



Your room sensor is assigned and paired with your Smart Vents! Your Smart Vent can now team up with your ecobee room sensor to control the temperature of this room.

How to Use







ecobee room sensor

Represents average temperature of all sensors in room

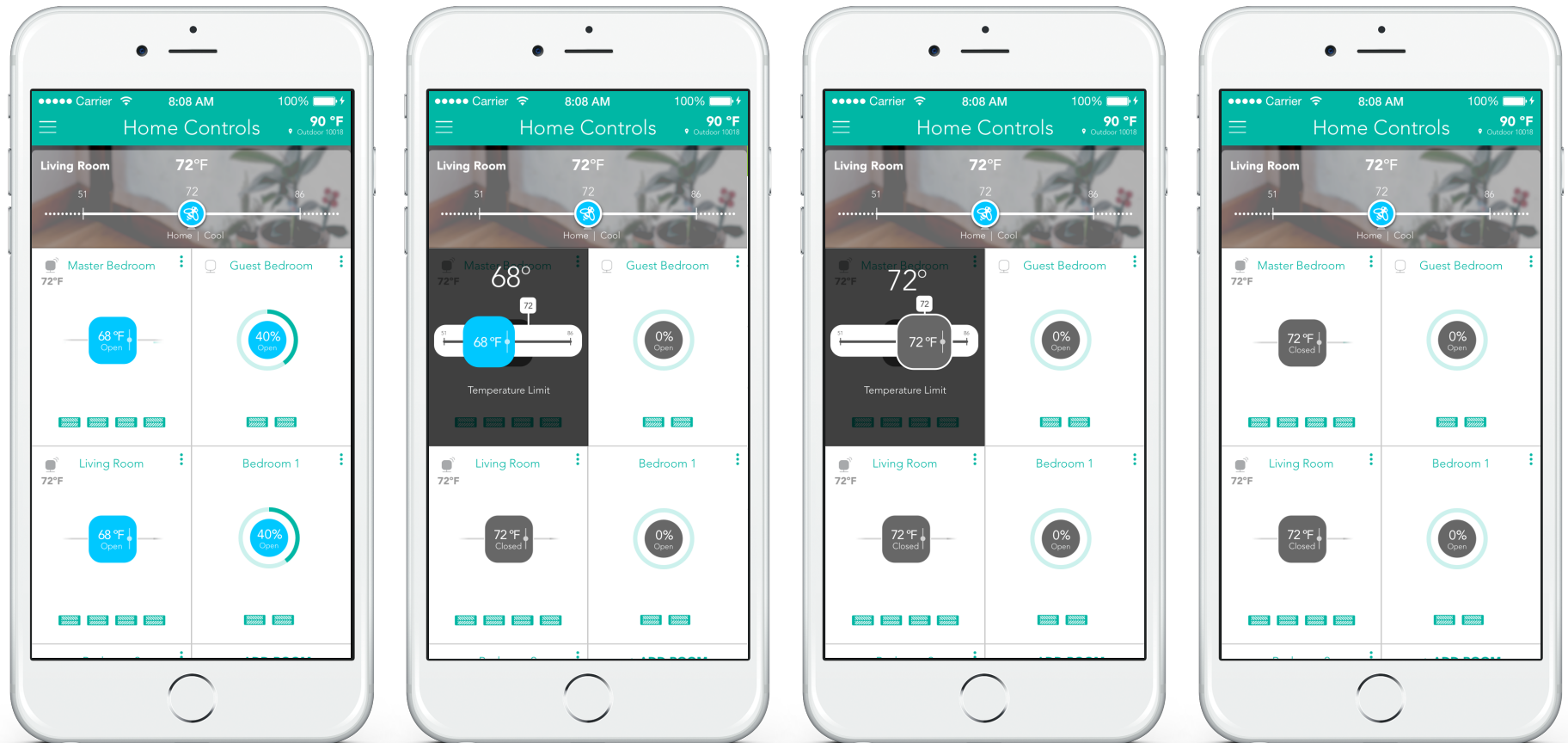


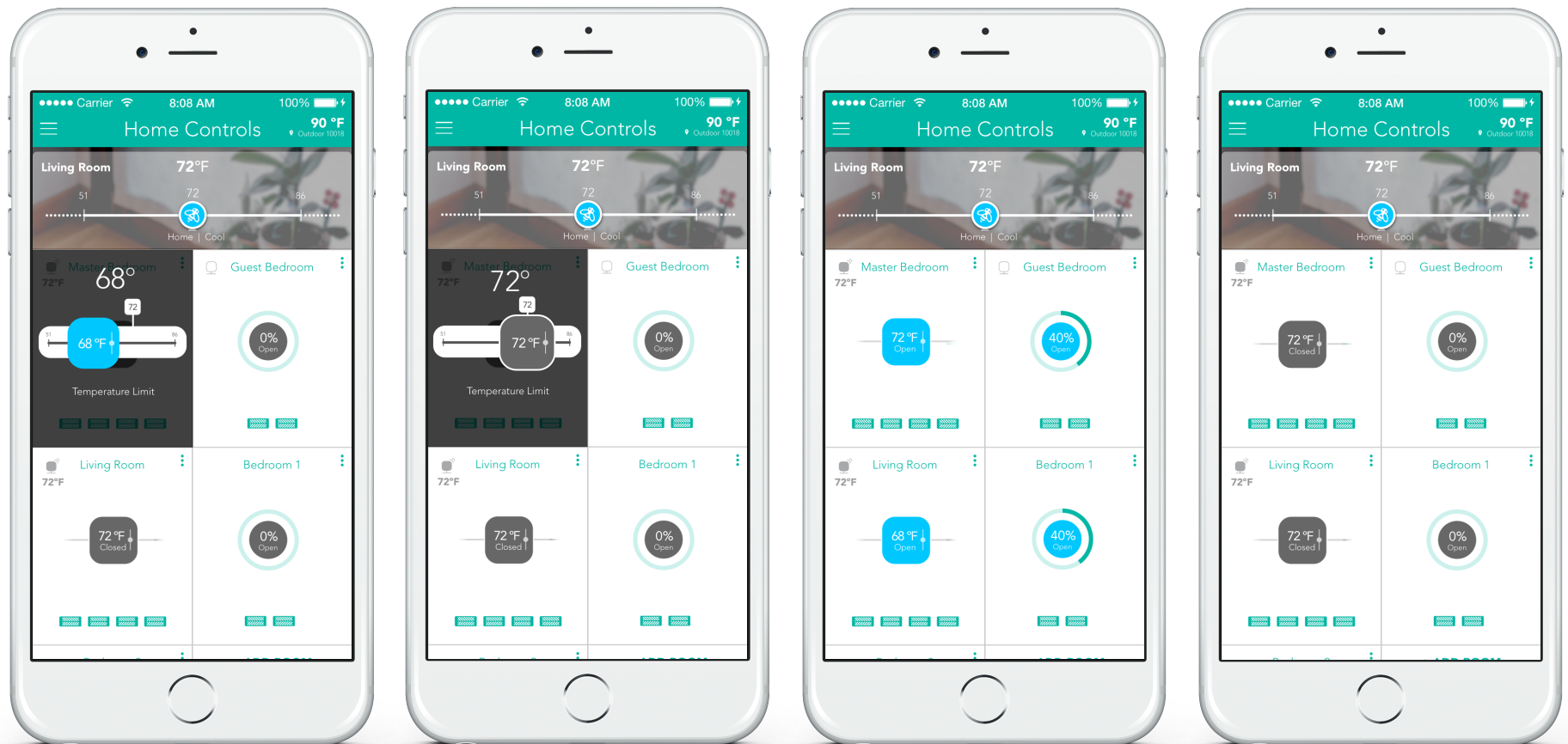
Room Temperature Limit

1. Represents if vent level is open or closed
2. If vent level is open, represents current HVAC state

Temperature Limit Icon	HVAC State and Vent Level
	If state = undefined and vents = open
	If state = undefined, off, fan, heat, or cool and vents = closed
	If state = heat and vents = open
	If state = cool and vents = open

*Vents may not open or close if the HVAC is not running. This help save battery.





Integration Basics

How does it work?

An ecobee3 or ecobee3 lite and ecobee3 Room Sensors integrated with a Keen Home Smart Vent System gives you ultimate control over comfort and energy usage in your home. Data is shared cloud to cloud between the ecobee3 and Keen Home platforms, allowing your Smart Vents to respond intelligently to real-time room temperatures. The Keen Home app supports multiple ecobee3 thermostats and as many sensors as you want.

What does the ecobee integration do?

Integrating your ecobee3 with your Smart Vent System activates three new features in the Keen Home app:

1. Temperature limits:

We use data from your ecobee and room sensors to understand your household target temperature and HVAC mode and state. By integrating your ecobee3 and ecobee3 room sensors, you'll gain access to a new feature called "Temperature Limit". With Temperature Limit, you set a target temperature for each room and your Smart Vents will automatically close when that target is reached. This prevents rooms from being overheated and over-cooled, and redirects air towards rooms that need it most. It's like a thermostat in any room!

2. Set "hold" temperature:

Configure your ecobee's hold temperature right from the Keen Home app. This is useful for pre-heating your home while you are away or cooling down the upstairs bedroom before bedtime in the summer.

3. Multiple thermostats:

Add multiple ecobee thermostats and an additional "not connected" thermostat zone.

4. Group and assign zones:

Group rooms by zones and assign the zones to distinct ecobee3 thermostats.

If I have an ecobee3, do I still need the Smart Bridge?

Yes, a Keen Home Smart Bridge is needed to integrate with ecobee3.

What do I need to integrate with ecobee?

You need the following to start:

1. A Keen Home Smart Bridge
2. Smart Vents for each room you want to control
3. An ecobee3 thermostat or ecobee3 lite
4. An ecobee3 room sensor for each room in which you would like to use Temperature Limit

Do I need extra ecobee room sensors?

Depends on what you want to do. Do you have enough room sensors to cover each room with Smart Vents? Rooms that do not have sensors or a thermostat cannot use the Temperature Limit feature.

Do the Smart Vents replace my ecobee room sensors?

No. Smart Vents detect HVAC duct temperature, which is used to understand HVAC state and safety. Ecobee's room sensors detect room temperature in relation to wherever they are mounted.

Does the Smart Vent "call for heat or AC" to specific rooms?

No. The primary difference between temperature limit in the Keen Home app and a traditional thermostat zone is that temperature limit will not "call for heat." In other words, when your home is being heated, your temperature limit is the maximum temperature your system will allow for the room before your Smart Vents close to reduce airflow to it. This does not change the whole-home temperature set by your ecobee3.

Do I use the ecobee app or the Keen Home app?

You use the Keen Home app to manage this integration.

Can it support multiple thermostats?

Yes, with the ecobee integration, you can add multiple ecobee thermostats. Our app also supports an additional "not connected" thermostat zone.

Will this integration work with ecobee lite, Smart Si, or other ecobee thermostats?

Your Keen Home Smart Vents will work with your ecobee3 and ecobee lite, but we do not officially support other ecobee thermostat models.

Integration Support

I'm having trouble adding my ecobee3! What do I do?

There are two scenarios in which you may not be able to add your ecobee3 account to the Keen Home app:

1. Your username or password are incorrect. Double check your ecobee login credentials and try again.
2. Your network is down. Try turning your router off and then back on again.

If your username and password are correct and your network is working properly but you are still having trouble adding your ecobee3, reach out to our support team at help@keenhome.io.

Why is my room sensor in the Keen Home app showing a different number than in the ecobee app?

Ecobee sensors report temperature every 3 minutes or when there is a large change in sensor state. Because of this, the Keen Home app may be a few minutes behind the ecobee app.

The temperature limit looks like it should have closed the vent, but it is open (or vice versa)

This is likely due to one of two things:

1. Your HVAC system is off. Smart Vents do not move when your home is not being actively heated or cooled.
2. You have a schedule set that has triggered your vents to be closed.

Check the state of your HVAC system and double check you don't have any schedules set for those vents. That should solve the problem. If you're still having trouble, the vents may be out of range of the Smart Bridge - contact customer support.

How does temperature limit work?

Temperature limit is a new feature that allows you to use your Smart Vents and ecobee3 room sensors like a room-by-room thermostat. When you have a room with a Smart Vent and room sensors, you can set a temperature limit at which the Smart Vent will automatically open or close to prevent overshooting the target temperature. This redirects air to rooms that have not hit their limit and reduces HVAC run time overall. It balances room temperatures and allows you to treat each room like an independent zone. In our testing, temperature limit can shift room temperature by 4-8 degrees.

Which app controls my schedule?

Ecobee uses setbacks to save energy by not running the HVAC when you aren't home. It also has separate temperature setting for bedtime or other "comfort settings." Since rooms schedules like those you set for Smart Vents have to do with room occupancy (not home occupancy like ecobee) the two schedules serve different purposes. We are working on a new feature called "Keen Home Me"

that uses the motion sensors in ecobee room sensors to automatically mark rooms as unoccupied when they are empty.

What is the difference between temperature limits and balance mode?

Temperature limits let you set temperature thresholds that trigger a response from your Smart Vents when a given limit is reached. Balance mode takes into account how you want airflow distributed throughout your home and coordinates your Smart Vents to meet your needs. For example, if it is winter and you tell your Smart Vents to warm your bedroom while in balance mode, the vents in your bedroom would all open to maximize airflow, while all of the other vents in your home would close slightly to drive more air to your bedroom.

How do I add my ecobee3 room sensor to the Keen Home app?

We automatically pull your room sensors into the Keen Home app when you authenticate your Keen Home account with your ecobee account. All you have to do is assign each sensor to their appropriate room. To do this, tap on "Connected Devices" from the left hand menu and select each sensor that does not have a room assigned. Tap on the room field and select the correct room or create a new room. New sensors added to the ecobee thermostat will be added to the Keen Home app automatically.

Do my Keen Home room schedules work with my ecobee3 home schedule?

Room schedules function differently than home schedules, so for now the schedules you set for rooms in your Keen Home app do not interact with your ecobee3 home schedule. We do plan to leverage room sensor data to inform room schedules in the near future.