

## Bonneville Power Administration RESIDENTIAL SMART THERMOSTAT QUALIFIED PRODUCTS LIST

- Nest 3<sup>rd</sup> Generation
- ecobee3



In order for products to meet the standards of the qualified products this they must have, at a minimum, the following:

- 7 day programmable or learning-based scheduling
- Wi-Fi enabled, with remote access
- Occupancy detection (e.g., motion sensor, geo-locating) which results in automatic HVAC reduction when home is unoccupied
- Independent of manufacturer evaluation(s) demonstrating energy savings for smart thermostat
- Smart thermostat must have heat pump axillary heat control and optimization

## GUIDE: Setting Your Smart Thermostat Occupancy Detection and Heat Pump Controls

Customer Service	Website	Phone Number
Nest	<a href="https://nest.com/support/">https://nest.com/support/</a>	855-469-6378
ecobee	<a href="https://www.ecobee.com/faqs/">https://www.ecobee.com/faqs/</a>	877-932-6233



TIP! Before you disconnect any wires from your current thermostat, take a picture of the back of your current thermostat with the wires still connected. You may need to refer to this when installing your smart thermostat.

### Occupancy Detection Set to ON

Nest	ecobee
<ul style="list-style-type: none"> <li>• <b>Set Your Eco Temperatures:</b> Your Nest Thermostat will automatically switch to Eco Temperatures after it senses that no one is at home.</li> <li>• You can also manually set your thermostat to Eco Temperatures anytime, even when you're home. You'll know Eco Temperatures are active when you see Eco on your thermostat and in the Nest app.               <ul style="list-style-type: none"> <li>○ Press the thermostat ring to open the Quick View screen</li> <li>○ Select settings &gt; select Eco &gt; Press the thermostat ring to select the temperature you want to change. Turn the ring to change it, then press to set it</li> <li>○ If your thermostat controls only heating or cooling, you'll set only one temperature setting</li> <li>○ To help ensure that you're setting an energy saving temperature, look for the Nest Leaf</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Enable Smart Home/Away</b> Smart Home/Away applies all the sensors in your network – including the sensors built-in your thermostat. It works by following your schedule unless any sensor in your network is in conflict with your schedule. In other words, if your ecobee3 senses that you are home during a scheduled Away period, or away during a scheduled Home period, it will automatically override your schedule by placing you in Smart Home/Away mode to maximize comfort (Smart Home) and savings (Smart Away).               <ul style="list-style-type: none"> <li>○ On Thermostat: Select Main Menu &gt; Sensors &gt; Smart Home/Away</li> <li>○ Touch Enable to have your sensor network and thermostat detect occupancy</li> </ul> </li> </ul>

### Programming to Control Your Heat Pump

Nest	ecobee
<ul style="list-style-type: none"><li>• If you have a heat pump, choose the correct Heat Pump Balance setting on your Nest Thermostat<ul style="list-style-type: none"><li>○ Go to Settings &gt; Nest Sense &gt; Heat Pump Balance &gt; Choose “Max Savings”</li><li>○ On the Nest app, choose your thermostat and go to Settings &gt; Nest Sense &gt; Heat Pump Balance &gt; Choose “Max Savings”</li></ul></li></ul>	<ul style="list-style-type: none"><li>• The Equipment settings let you configure the devices connected to the thermostat. Depending on your system's equipment, not all options may be available.</li><li>• <b>Heat Pump:</b> This menu lets you configure a heat pump with up to 2 heat/2 cool stages and a 2 stage auxiliary heat source.</li><li>• <b>Type:</b> This setting helps the thermostat determine optimum performance and default settings.</li><li>• Select Geothermal if you are using a geothermal heat pump; otherwise select Air to Air.</li></ul>

**Other ecobee Energy Savings Tips:**

- **Make sure to program your weekly schedule:**
  - On Thermostat and Mobile:
    - 1. Select Main Menu > Schedule
    - 2. Touch the day of the week you want to adjust.
    - 3. Select an existing scheduled activity to edit. You can also create a new activity by touching +.
    - 4. Select Start time.
    - 5. Swipe to select the new time value. *Note: You can only select time values that are at least 30 min after the previous activity to 30 min before the next scheduled activity (i.e. you cannot overlap activity times).*
    - 6. Touch Save.
    - 7. If you have added a new activity, you need to select Comfort Setting to use.
    - 8. Touch Save.
    - 9. Touch the Back arrow to return to the Schedule screen where you can make additional changes as required.
  
- **Smart Recovery** - Smart recovery lets your ecobee3 learn how your heating and cooling system works, taking into account weather and historical operating performance so that your home reaches the scheduled set point at the time in which the change occurs (i.e. not afterwards). For example, if you wake up at 6:00 AM, you do not need to schedule your Home period to start at 5:30 AM. Smart Recovery will start the HVAC equipment to ensure that at 6:00 AM, the house is at your desired temperature.
  - On Thermostat: Select Main Menu > Settings > Preferences
  - Select Heating Smart Recovery or Cooling Smart Recovery.
  - Touch Enable.
  
- **Thresholds** - This menu lets you configure the temperature and time thresholds associated with the heating and cooling equipment
  - Aux Heat Max Temp - Configures the maximum outdoor temperature above which the auxiliary heat will not be engaged.
    - On Thermostat: Select Main Menu > Settings > Installation Settings > Thresholds > Heat Differential Temp
    - 35 degrees F is recommended
  - Compressor Min Outdoor Temp - Enforces a minimum outside air temperature at which the compressor will be disabled.
    - Select Main Menu > Settings > Installation Settings > Thresholds > Compressor Min Outdoor Temp.
    - 5 degrees is recommended

- **Heat Differential Temp** -The minimum difference between the current temperature and set temperature before the system calls for heat. A smaller difference means shorter cycle times, whereas a larger difference results in longer cycle times.
  - On Thermostat: Select Main Menu > Settings > Installation Settings > Thresholds > Heat Differential Temp
  - 2 degrees F is recommended