



Advanced Smart Thermostats

APPLICATIONS

- Homes heated with an electric forced-air furnace or non-variable speed centrally ducted air source heat pump or ground-source heat pump.
- Existing homes where the existing thermostat is non-qualifying.
- Single-family existing homes, low-rise Multifamily units and manufactured homes.
- One smart thermostat per qualifying system, with a limit of two per household.
- Note: Advanced Thermostats are NOT recommended for variable-speed heat pumps or for DHPs.

PAIRS WELL WITH

- Prescriptive Air Sealing.
- Prescriptive Duct Sealing.
- Insulation.
- PTCS and non-PTCS Air-Source Heat Pumps.
- Heat Pump Water Heater.

Specification Checklist

[Download Checklist](#)

- Thermostat must be on [BPA's Residential Smart Thermostat Qualified Product List \(QPL\)](#). To meet the standards of the QPL, thermostats must have an independent evaluation(s) demonstrating energy savings for the thermostat, or ENERGY STAR certification.
- Thermostat must have a built-in occupancy sensor with the function set to "on."
- Thermostat must be set to the geographic location where it is located (home).
- Thermostat must be Wi-Fi enabled with remote access.
- Thermostat must be 7-day programmable or have learning-based scheduling.
- If the thermostat controls a heat pump, it must be programmed to control the heat pump and have heat pump auxiliary-heat control and optimization.

RECOMMENDED

- Educate homeowner on thermostat operation and programming.

Connect with the local serving utility to confirm pre- and post-condition requirements.



Pre-Condition:

Electric-resistance heat furnace, air-source heat pump or ground-source heat pump and existing non-qualifying thermostats.



MINIMUM REQUIRED DOCUMENTATION

1. [Smart Thermostat Project Information Form.](#)
2. Manufacturer, model number and serial number of each thermostat.
3. Heating system controlled by the thermostat.

QUALIFIED PRODUCT LIST AND GUIDES

- [Residential Smart Thermostat Qualified Products List.](#)

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Installation Examples



Smart thermostat with occupancy sensor.



Standard programmable thermostat.
Courtesy of U.S. Department of Energy