A person wearing a blue long-sleeved shirt is sitting on a couch, using a silver laptop. The laptop screen displays the Ameren website. A semi-transparent white box with a black border is overlaid on the center of the image, containing the text.

Heat Pump Water Heaters
Francois Lebrasseur
Business Development Manager
Utility Sector
A. O. Smith

A. O. Smith/State/American HPWH

50, 66 and 80 gallon models

- High efficiency operation up to 3.52 UEF
- 3X more efficient than standard gas and electric water heaters
- Saves the average household \$305 every year on their electric bill
- Dual voltage 208/240 VAC compatible
- 10 year limited warranty
- ENERGY STAR® certified
- Audible alarm

All units can be transported on their side for local delivery. Stand upright for 2-3 hours before powering to allow the coolant to drain back to the correct areas.



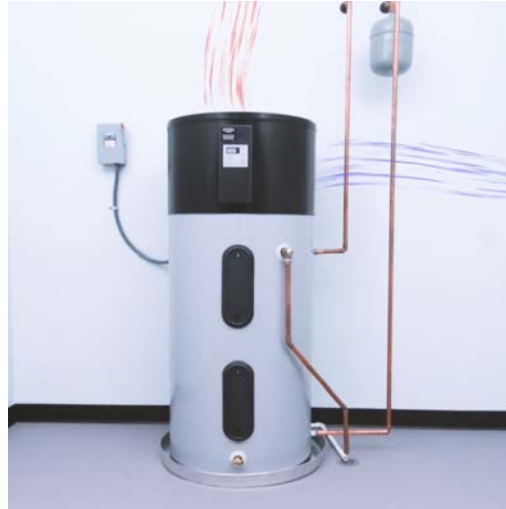
Explaining the Technology Features



Heat pump technology:

- Heat is moved from the surrounding air to the water in the tank
- Pulling heat instead of creating heat allows for 73% less energy use
- 6 or 10 year warranty

How the HPWH Works



<https://player.vimeo.com/video/235024851?autoplay=1>

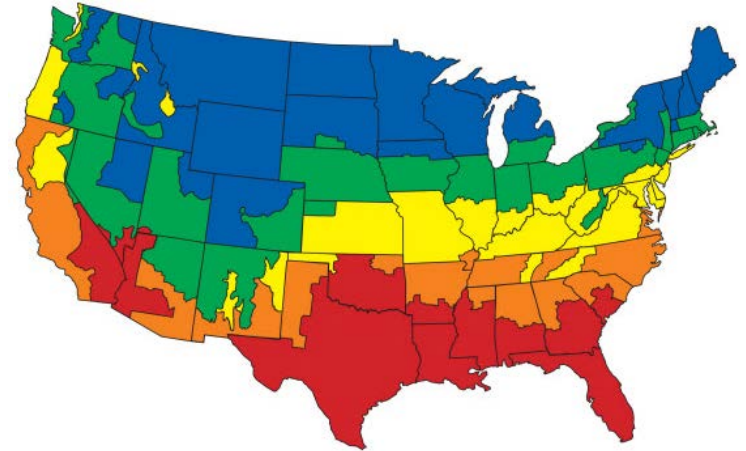
Control System

- LED display for precise temperature control
- Multiple operating modes to meet your hot water needs:
 - Efficiency: Heat pump only (1/3 recovery time vs standard electric. 1.5 KW of heating from heat pump)
 - Hybrid: Heat pump and elements
 - Electric
 - Vacation (program up to 99 days)
- Dry fire protection
- Advanced diagnostics- *Error code history*



All Climates

- **Wide Temperature Operating Range**
 - Heat pump will operate when the ambient air temperature is 45°F - 120°F
- **Installed Indoors**
- **Great in Basements**
 - Relatively steady temperature year round
 - Heat pump acts as a dehumidifier
 - 7k-8k btus of cooling
 - Only cools when heating
 - 2 degree drop in conditioned space
- **Northern Climates**
 - Northern states often have some of the highest electric rates which can lead to greater savings and faster payback



Installing a HPWH

Installs similarly to a standard electric water heater with a few differences:

Minimum Space Requirements

- Recommend a minimum of 700 ft³
- Position water heater so discharge air is displaced in open room
- Some options for smaller installation spaces

Condensate

- Primary and secondary condensate ports should be plumbed to a floor drain or condensate pump
- ¾" PVC main port, ½" flex tubing overflow port; hand tighten

Side Water Connections

- Keeps water away from the electronics and heat pump components at the top of the heater



Inlet & Outlet Ducting

Optional Inlet/Outlet Ducting Kit* can be used for confined space installations

- A heat pump requires a minimum room size of 700 ft³ for proper operation
- Pull air from and/or exhaust air to an adjacent space
- No minimum space requirement for installation if both inlet and outlet are ducted
- Allows up to 50 feet of total ducting (inlet+outlet), or up to 100 feet when using a duct booster fan kit
- Not recommended to vent to or from outside





iCOMM Smart Connectivity

- Wi-Fi and Bluetooth capable
- Includes Leak Sensor and Reporting
- Free A. O. Smith App
 - Control temperature and mode
 - Monitor water heater status
 - Fault and Maintenance notifications
- Utility Load Management
 - Easily load utility Time of Use rates
 - Demand Response: OpenADR 2.0b VEN certified
- Factory Installed
 - Also available as an accessory kit. Backwards compatible on all series 130 heat pumps.

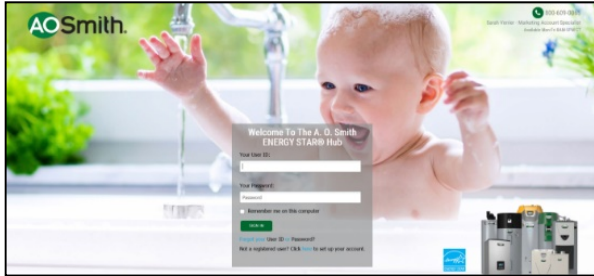


Module
and Leak
sensor

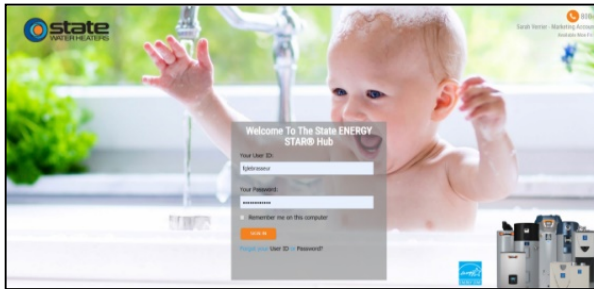


Available factory
installed

A. O. Smith and State ENERGY STAR® Hub



<https://aosmith.mymarketingbench.com/>



<https://state.mymarketingbench.com/>

- Dedicated to ENERGY STAR certified products
- Central repository of spec. sheets, brochures, videos, promotional tools for distributors and contractors



<https://player.vimeo.com/video/293610496?autoplay=1>

This Fall....\$300 Federal Tax Credit

For information on the Federal Tax Credit, go to:

https://www.energystar.gov/about/federal_tax_credits/non_business_energy_property_tax_credits

Advise consumers to check with their tax advisor for applicability.

Water Heaters (non-solar) ▾

Gas, Oil, Propane Water Heater

Certain ENERGY STAR certified gas water heaters meet the requirements for this tax credit. Water heaters account for 12% of the energy consumed in your home.

Tax Credit Amount: \$300

Requirements
Uniform Energy Factor (UEF) \geq 0.82 **OR** a thermal efficiency of at least 90%.

[See definitions.](#)

More Information

- [How to apply](#)

Electric Heat Pump Water Heater



Most ENERGY STAR certified water heaters meet the requirements of this tax credit. Water heaters account for 12% of the energy consumed in your home.

Tax Credit Amount: \$300

Requirements
Uniform Energy Factor (UEF) \geq 2.2

More Information

- [How to apply](#)



QUESTIONS?



AmerenIllinoisSavings.com

