



# Residential Hybrid Electric Heat Pump Water Heater

## VOLTEx® HYBRID ELECTRIC HEAT PUMP WATER HEATER

The Voltex Hybrid Electric heat pump water heater from A. O. Smith is the most cost effective energy-efficient option available for consumers who want to save money on their utility bills. Voltex can reduce water heating costs up to 66% and provide payback in 2-3 years. With annual savings of \$393 or more, there is no better way to go green than Voltex.

### HOW DO THEY WORK?

- Absorb ambient heat from the surrounding air to heat water using a compressor and environmentally-friendly R134a refrigerant
  - Self-contained heat pump unit is integrated into the top of the tank
  - Multiple operating modes to maximize efficiency and performance

**QUALIFIES FOR MANY STATE AND LOCAL UTILITY REBATES - CHECK [WWW.DSIREUSA.ORG](http://WWW.DSIREUSA.ORG)**

## FEATURES

### INCREASED ENERGY EFFICIENCY

- Improved efficiency designed in, to ensure available hot water at the lowest possible cost
- Up to a 2.75 Energy Factor (EF) Rating conserves energy and meets ENERGY STAR® qualifications

### CHOICE OF OPERATING MODES

- Select from Efficiency, Hybrid, or Electric modes to match heating requirements to environmental conditions. Hybrid mode automatically adjusts between compressor and element, depending upon heat requirements.
- Vacation mode reduces operating costs and provides freeze protection during extended absence

### BACKUP ELECTRIC ELEMENTS

- Long-lasting backup heating elements help heat water according to environmental conditions, demand, and the chosen operating mode

### PROTECTIVE ANODE

- Protects the tank from the corrosive effects of hot water, to ensure long tank life

### DRY FIRE PROTECTION

- Control system checks to ensure the tank is full of water during start up to prevent dry firing the heating elements

### ELECTRONIC USER INTERFACE

- User-friendly electronic interface allows easy control of temperature setting, operating mode, and communicates diagnostics
- Easy to read temperature display (see back) shows temperature in °F or °C
- Advanced diagnostics convey error messages for service purposes. The last four error messages are saved in the control system memory.

### OTHER FEATURES

- Ideal for basements or garage installations; the compressor transfers heat to the water while dehumidifying and cooling the ambient air
- Washable air filter is easily removed for routine cleaning

### TEN YEAR LIMITED WARRANTY

- For complete information, consult written warranty or contact A. O. Smith Corporation



**MODEL SHOWN  
SHPT-50**



Low Lead Content





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### ELECTRONIC USER INTERFACE

- User friendly, easy to read display
- LEDs clearly indicate the current operating mode
- Easily select operating mode:
  - Efficiency
  - Hybrid
  - Electric
  - Vacation
- Display communicates current status, mode and set point, and displays error messages when applicable
- Vacation mode programmable up to 99 days

### EFFICIENCY MODE

- Utilizes the heat pump for all water heating
- Automatically reverts to heating element if ambient air or water temperatures are outside optimal operating range for heat pump

### HYBRID MODE

- Utilizes the heat pump or heating element, depending on demand

### ELECTRIC MODE

- Standard electric water heater operation

### VACATION MODE

- Maintains tank temperature of 60°F (15.6°C) during vacation or extended absence to reduce operating costs and provide freeze protection

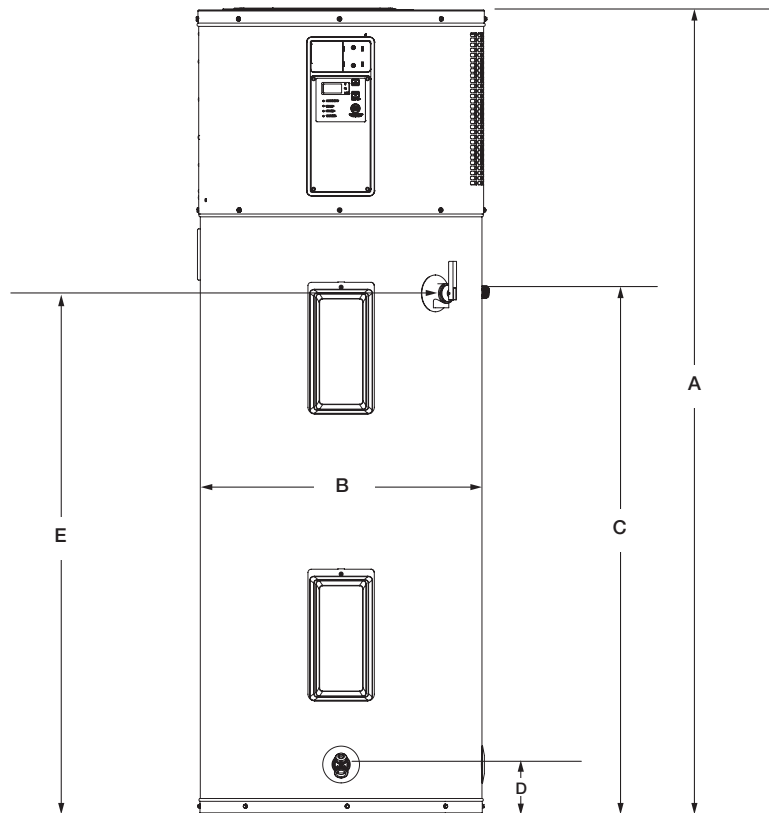
| MODEL   | GALLON CAPACITY | ENERGY FACTOR BY MODE |        |          | 1ST HOUR RATING (GAL) BY MODE |        |          | HEIGHT (INCHES) A | DIAMETER (INCHES) B | HEIGHT TO WATER OUTLET (INCHES) C | HEIGHT TO WATER INLET (INCHES) D | HEIGHT TO T&P (INCHES) E | APPROX. SHIPPING WEIGHT (LBS) |
|---------|-----------------|-----------------------|--------|----------|-------------------------------|--------|----------|-------------------|---------------------|-----------------------------------|----------------------------------|--------------------------|-------------------------------|
|         |                 | EFFICIENCY            | HYBRID | ELECTRIC | EFFICIENCY                    | HYBRID | ELECTRIC |                   |                     |                                   |                                  |                          |                               |
| SHPT-50 | 50              | 2.78                  | 2.75   | 0.89     | 42.1                          | 67.5   | 59.1     | 63                | 22                  | 40-5/8                            | 3-3/4                            | 40-1/2                   | 196                           |

### OTHER FEATURES:

- Sacrificial anode to protect against tank corrosion
- 2 Inch environmentally-friendly non-CFC foam insulation
- Durable, tamper-resistant brass drain valve
- CSA certified and ASME rated temperature & pressure relief valve

### OPERATING REQUIREMENTS:

- Requires provision for condensate draining; if a suitable drain is not available, a condensate pump is required
- 240 VAC single phase 30 amp power supply



For Technical Information and Automated Fax Service, call 800-527-1953. A. O. Smith reserves the right to make product changes or improvements without prior notice.