

VOLTEX™ HYBRID ELECTRIC WATER HEATER

The Voltex Hybrid Electric heat pump water heater from A. O. Smith is the most versatile, energy efficient option for the consumer who is looking to go green and save some green. The Voltex can provide the same amount of hot water as a conventional electric water heater at half the cost.

HOW DOES IT WORK?

- Absorbs 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 maximize efficiency and meet increasing hot water needs

QUALIFIES FOR 2010 FEDERAL TAX CREDIT OF UP TO \$1,500

FEATURES

INCREASED STORAGE

- High capacity storage tank enables the heat pump to operate more frequently than the heating elements. This provides higher energy efficiency and lower operating costs, saving money for the home owner
- High capacity storage tank provides more hot water for peak demand periods

ENERGY EFFICIENCY

- 2.3 Energy Factor conserves energy and meets ENERGY STAR® requirements

CHOICE OF OPERATING MODES

- Select from Efficiency, Hybrid, or conventional Electric modes to match heating requirements to environmental conditions. Hybrid mode automatically adjusts between compressor and element, depending upon heat requirements. Vacation mode protects system components from freeze damage.

BACKUP ELECTRIC ELEMENTS

- Long-lasting incoloy heating elements, 240V/2000W lower and 240V/4500W upper, helps heat water when in conventional Electric or Hybrid modes

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 control interface with plain English text and intuitive status icons provides easy interaction
- Large LCD temperature display (see back) shows temperature in °F or °C
- 3 line 13 character backlit LCD display communicates current set point, status and operational information
- Advanced diagnostics convey error messages in plain English. The last four error messages are saved in the control system memory.
- Child resistant safety lock deters unwanted access to temperature settings

POWERED ANODE

- A powered anode is installed to protect the tank from corrosion and eliminate the service requirements of a conventional anode rod.

DEHUMIDIFICATION

- Ideal for basements; the compressor transfers heat to your water while dehumidifying the ambient air
- Washable heat pump filter is easily removed for routine cleaning

TEN YEAR LIMITED WARRANTY

- For complete information, consult written warranty or contact A. O. Smith Water Products Company



MODEL PHPT-80





Hybrid Electric Heat Pump Water Heater



ELECTRONIC USER INTERFACE

- Large LCD temperature display
- Mode icons to clearly indicate operating mode
- Individual backlit buttons for mode selection:
 - Efficiency
 - Hybrid
 - Electric
 - Vacation
- Three-line display communicates current status and displays error messages when applicable
- Safety lock

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

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

MODEL	GAL CAP.	ENERGY FACTOR BY MODE*			1ST HOUR RATING/GAL BY MODE			HEIGHT	DIAMETER	SHIPPING WEIGHT (LBS)
		EFF	HYBRID	ELEC	EFF	HYBRID	ELEC			
PHPT-80	80	2.3	2.3	.85	70	84	76	81.5	24.5	410

All dimensions in inches

*Increased storage capacity provides the same 2.3 Energy Factor both in the EFFICIENCY and HYBRID modes.

OTHER FEATURES:

- Powered anode to protect against tank corrosion (Max 50 mA draw)
- 2" Environmentally friendly non-CFC foam insulation
- Coefficient of performance (COP) 3.1
- Child resistant brass drain valve
- CSA certified and ASME rated T&P relief valve
- Water temperature set point range; 95°F to 150°F (35°C to 66°C)

OPERATING REQUIREMENTS:

- Requires provision for condensate draining; if a suitable drain is not available a condensate pump is required
- Recommended minimum 750 cubic feet of space for air circulation/heat exchange
- 240 VAC single phase power supply with 25 amp circuit breaker

