



# Residential Hybrid Electric Heat Pump Water Heater

## 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 money. 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 modes of operation allow flexibility for different hot water needs

### FEATURES

#### INCREASED STORAGE ENHANCES EFFICIENCY

- The high capacity tank enables the heat pump to operate more frequently instead of the elements. This provides higher energy efficiency and lower operating costs, saving money for the home-owner
- Additional storage facilitates heat pump performance even in cooler climates

#### 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

#### ELECTRONIC USER INTERFACE

- User friendly electronic control module designed for easy interaction
- Large LCD temperature display (see back) shows temperature in °F or °C, operating conditions, and service messages in easy to read format
- Backlit mode buttons, safety lock to deter unwanted access and three-line display communicates current status and error messages when applicable

#### 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





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## 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
- Will automatically revert to heating element if ambient temperature is 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
- 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	GALLON CAPACITY	ENERGY FACTOR BY MODE			1ST HOUR RATING BY MODE			HEIGHT (Inches)	DIAMETER (Inches)	HEIGHT TO WATER OUTLET (Inches)	HEIGHT TO WATER INLET (Inches)	HEIGHT TO T&P (Inches)	Approximate Shipping Weight (LBS)
		EFFICIENCY*	HYBRID	ELECTRIC	EFFICIENCY	HYBRID	ELECTRIC	A	B	C	D	E	
PHPT-60	60	2.40	2.33	0.88	51	68	66	67-1/3	24-1/2	41	4-1/4	40	332
PHPT-80	80	2.30	2.33	0.85	70	84	76	81-1/2	24-1/2	55	4-1/4	56-1/3	410

\*Up to a 2.4 Energy Factor (EF) rating in Efficiency mode.

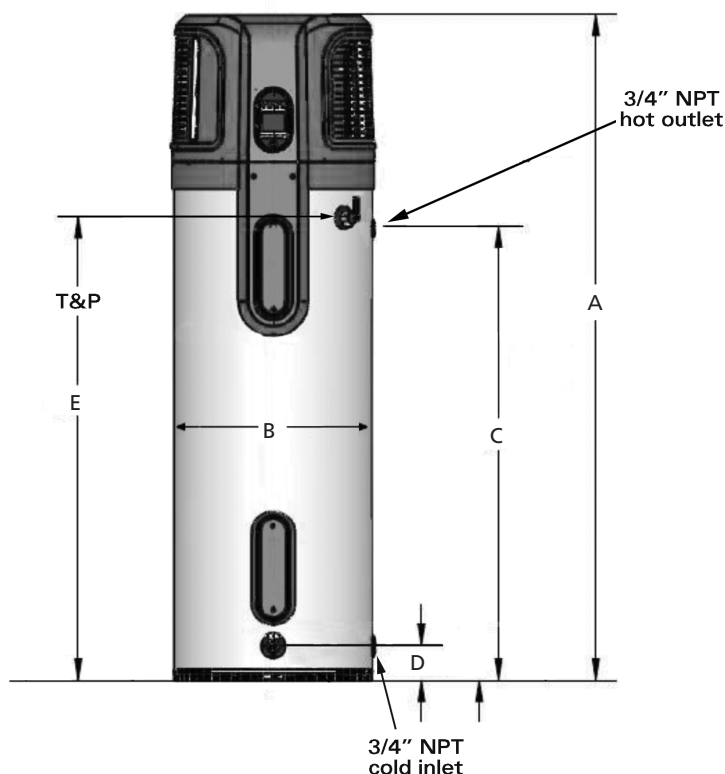
All dimensions in inches

## 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
- Factory installed T&P
- 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



For Technical Information, call 1-888-479-9283. A.O. Smith reserves the right to make product changes or improvements without prior notice.