

## Voltex® HYBRID ELECTRIC HEAT PUMP WATER HEATERS

The Voltex hybrid electric heat pump water heaters from A. O. Smith are a cost effective energy-efficient option available for consumers who want to save money on their electric utility bills.

### HOW DO THEY 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 to maximize efficiency and performance

### FEATURES

#### INCREASED ENERGY EFFICIENCY

- Improved efficiency design to ensure available hot water at the lowest possible cost
- Up to a 3.24 Energy Factor (EF) Rating conserves energy and exceeds 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

#### CoreGard™ ANODE ROD

- Our anode rods have a stainless steel core that extends the life of the anode rod allowing superior tank protection far longer than standard anode rods
- 66 and 80 gallon models have dual anodes for added protection

#### 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 and the last four error messages are saved in the control system memory

#### OTHER FEATURES

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

#### WARRANTY

- 10 year limited tank warranty
- 10 year limited parts warranty

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



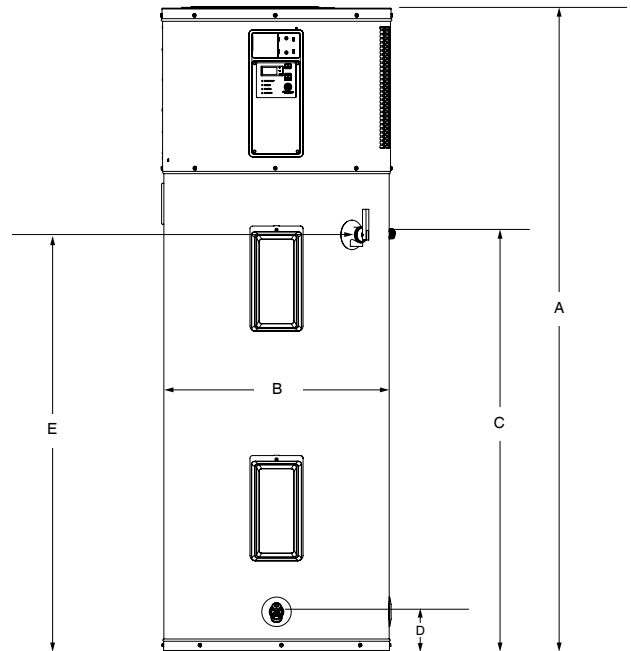
## PERFORMANCE

MODEL	SERIES	CAPACITY USG (L)	INPUT		ENERGY FACTOR BY MODE			FIRST HOUR RATING BY MODE GPH (LPH)		
			WATTS UPPER/LOWER	VOLTS	EFFICIENCY	HYBRID	ELECTRIC	EFFICIENCY	HYBRID	ELECTRIC
HPTU-50	120	50 (189)	4500/4500	208/240	3.61	3.24	0.93	44.4 (168)	70 (265)	57.3 (217)
HPTU-66	120	66 (250)	4500/4500	208/240	3.44	3.17	0.92	62.5 (237)	80 (303)	78.6 (298)
HPTU-80	120	80 (303)	4500/4500	208/240	3.27	3.06	0.93	76.3 (289)	95 (360)	90.1 (341)

Requires 30 amp breaker.  
Top T&P option not available

## DIMENSIONS & SHIPPING WEIGHT

MODEL	INSTALLATION HEIGHT	TANK DIAMETER	HEIGHT TO UPPER SIDE CONNECTION	HEIGHT TO LOWER SIDE CONNECTION	HEIGHT TO DRAIN VALVE	HEIGHT TO T&P	SHIPPING WEIGHT
	A IN (CM)	B IN (CM)	C IN (CM)	D IN (CM)	D IN (CM)	E IN (CM)	LB (KG)
HPTU-50	63 (160)	22 (56)	40 5/8 (103)	3 3/4 (10)	3 3/4 (10)	40 1/2 (103)	196 (89)
HPTU-66	61 (155)	27 (69)	38 (97)	4 (10)	4 (10)	38 (97)	289 (131)
HPTU-80	69 (175)	27 (69)	46 (117)	4 (10)	4 (10)	46 (117)	307 (139)



### EFFICIENCY MODE

- Utilizes the heat pump for all water heating

### HYBRID MODE

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

### 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
- Programmable up to 99 days

### 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
- 208/240 VAC 60Hz single phase 30 amp power supply