

# Residential Hybrid Electric Heat Pump Water Heater

**10-Year Limited Tank/ 10-Year Limited Parts Warranty\***

The Hybrid Electric heat pump water heater from American is the most cost effective energy-efficient option available for consumers who want to save money on their utility bills. The Hybrid Electric heat pump can reduce water heating costs up to 66% and provide payback in 2-3 years. With annual savings of \$350 or more, there is no better way to go green.

## 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 modes

### 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



**HPSE10250H045DV**



\*For complete warranty information consult the written warranty of American Water Heaters found at [www.americanwaterheater.com](http://www.americanwaterheater.com), or call (800) 999-9515.



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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

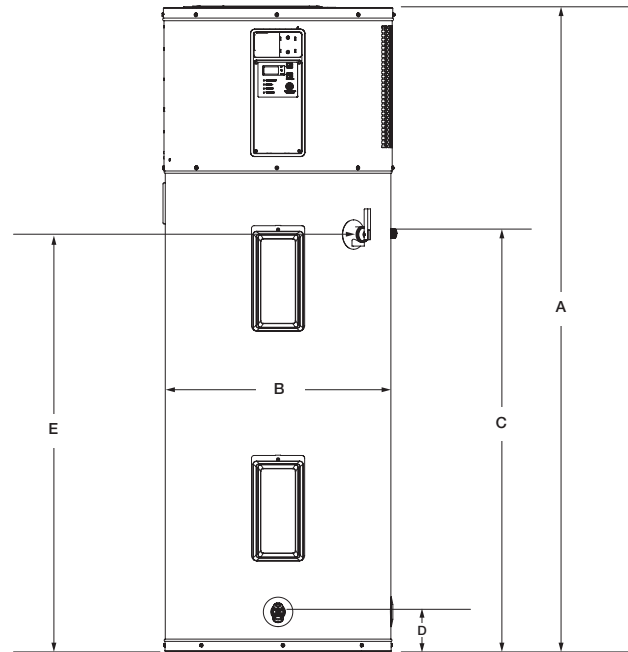
MODEL	GALLON CAPACITY	ENERGY FACTOR BY MODE			1ST HOUR RATING (GAL) BY MODE			HEIGHT (INCHES) A	DIAMETER (INCHES) B	HEIGHT TO WATER OUTLET (INCHES) C	HEIGHT TO WATER INLET (INCHES) D	HEIGHT TO T&P (INCHES) E	APPROX. SHIPPING WEIGHT (LBS)
		EFFICIENCY	HYBRID	ELECTRIC	EFFICIENCY	HYBRID	ELECTRIC						
HPSE10250H045DV	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



## Order Entry and Sales

500 Princeton Road (FEDEX, UPS)  
 Johnson City, TN 37601-2030  
 P.O. Box 4808 (Mailing)  
 Johnson City, TN 37602-4808  
 (800) 937-1037  
 FAX (800) 581-7224  
 www.americanwaterheater.com

## Distributed By:

## Warranty and Service

500 Princeton Road (FEDEX, UPS)  
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 Johnson City, TN 37605-1597  
 (800) 999-9515  
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