

## CHOOSE FROM THREE OPERATIONAL MODES & A CONVENIENT VACATION SETTING

Choose the right efficiency setting, based on climate, demand and installation.

### EFFICIENCY MODE

The high efficiency setting utilizes only the heat pump to extract heat from the surrounding air and transfers it to the water.

### HYBRID MODE

When hot water demand is at its peak, this setting utilizes both the heat pump and conventional electric elements to provide the necessary amount of hot water.

### ELECTRIC MODE

In electric mode, the unit operates as a conventional electric water heater utilizing the elements only.

### VACATION SETTING

One touch operation maintains tank temperatures of 60°F (15.6°C) during extended absences to reduce operating costs and provide freeze protection. Vacation setting on HPHE models are programmable up to 99 days.

## ADVANCED ELECTRONIC CONTROLS



## HPHE MODELS USER INTERFACE

- The models are easy for homeowners to use. It is customized to meet their unique needs with 3 operating modes, and a convenient programmable vacation setting. It also includes diagnostic reporting through the eye-level user interface panel.
- The HPHE models have a communications port built into the user interface, for future connectivity to home management applications and money saving utility demand response solutions.
- Status icons clearly indicate operating mode.

## AT A GLANCE

- A heat pump water heater absorbs heat from ambient air and transfers it to the water.
- While heating the water in the tank, it is also cooling and dehumidifying the surrounding air.
- More storage means more energy savings. With an 80-gallon tank, more energy can be stored that has been created through the heat pump, resulting in greater savings.
- User-friendly displays for easy interaction
- High energy factors (UEF) result in more energy conservation, minimizing operating costs.
- Eligible for local rebates and tax incentive programs which provide cash-back to consumers. Go to [americanwaterheater.com](http://americanwaterheater.com) and see "Find Local Incentives."
- ENERGY STAR® Qualified



### 10 YEAR MODELS

Model Number	Nominal Capacity	Rated Storage Volume	UEF	First Hour Rating (Gallons)	Dimensions in inches		Approx. Shipping Weight (lbs)	Warranty Term
					Height	Diameter		
HPHE10250H045DVN	50	46	3.42	66	63	22	196	10
HPHE10266H045DVN	66	67	3.52	66	61	27	289	10
HPHE10280H045DVN	80	82	2.73	84	69	27	307	10

### 6 YEAR MODELS

Model Number	Nominal Capacity	Rated Storage Volume	UEF	First Hour Rating (Gallons)	Dimensions in inches		Approx. Shipping Weight (lbs)	Warranty Term
					Height	Diameter		
HPHE6250H045DV	50	46	3.42	66	63	22	196	10
HPHE6266H045DV	66	67	3.52	66	61	27	289	10
HPHE6280H045DV	80	82	2.73	84	69	27	307	10



## HYBRID ELECTRIC HEAT PUMP WATER HEATERS



American Water Heaters | 500 Tennessee Waltz Parkway | Ashland City, TN 37015

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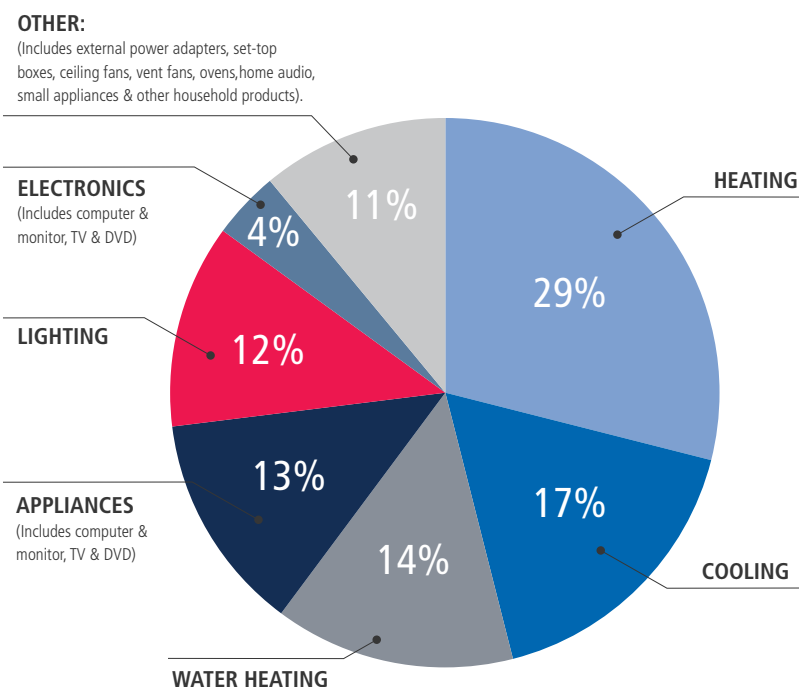
# A NEW ERA IN WATER HEATING

Low annual operating cost means \$305 annual savings, or \$3,000 over a 10-year period, compared to conventional electric water heater.

For years, there have been few high efficiency options for homeowners that have an electric water heater. That's because there were few technological advances in electric water heating.

But all that has changed now, with the American Hybrid Electric Heat Pump Water Heater. Our advanced design integrates heat pump technology into a product that is more than twice as efficient as a standard electric water heater. It's the most versatile and energy-efficient option for homeowners looking for cost savings and performance.

American Hybrid Electric Heat Pump Water Heaters offer up to a 3.52 UEF (Uniform Energy Factor). The design features an integrated heat pump with high efficiency compressor and external coil heat exchanger, with back-up electric elements. This combination provides greater energy efficiency for more energy savings, while providing multiple operating modes for greater flexibility.



Source: Typical House memo, Lawrence Berkeley National Laboratory, 2009 and Typical house\_2009\_Reference.xls spreadsheet.

# HYBRID ELECTRIC WATER HEATERS

Over twice the efficiency of a standard electric water heater and easy to install, the Heat Pump more than lives up to its impressive reputation. With flexible operation modes, this is a water heater designed to work in many different applications.

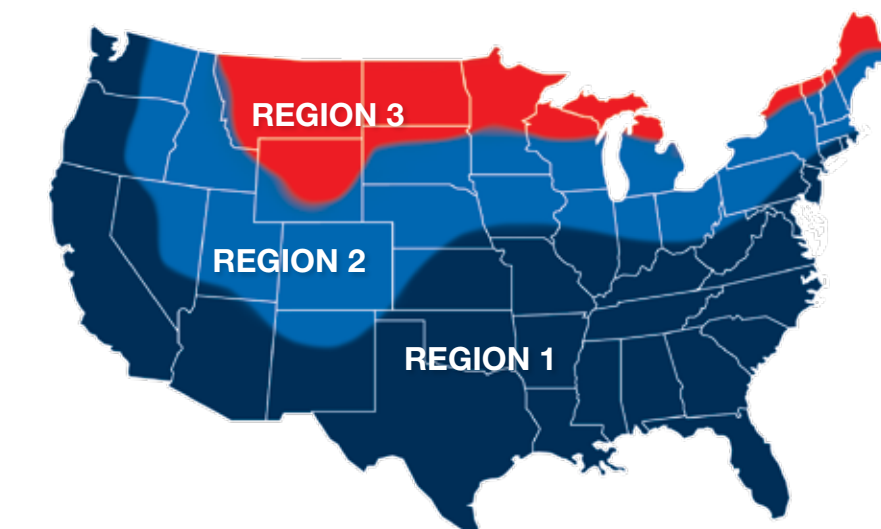
## HOW DOES THE HYBRID ELECTRIC WORK?

The American Hybrid Electric Heat Pump Water Heater is an integrated system that utilizes heat pump technology to provide a more efficient way to heat water with electricity. The Heat Pump pulls heat from the surrounding air and deposits the heat into the tank. The end result is very efficient production of hot water, with cooler and dehumidified air as a welcome by-product.



## LARGE CAPACITY ALLOWS USE ACROSS ALL GEOGRAPHIC LOCATIONS

American Hybrid Electric Heat Pump Water Heaters can be effectively used in all areas of the U.S. Based on ambient conditions, hybrid mode allows both of the heating components – heat pump and traditional heating elements – to operate in order to provide optimal performance.



**REGION 1** Heat pump will be used most of the year  
**REGION 2** Majority heat pump operation  
**REGION 3** Combination heat pump & electric heating elements

## THE BEAUTY OF HAVING OPTIONS

- For locations where space is not constrained, the higher capacity 80- and 66-gallon models are the best option for improved performance. These higher capacity models are designed to maximize the use of the heat pump and avoid the use of the backup electric elements for greater savings.
- If you are looking for heat pump energy efficiency, but have space limitations, the 50 gallon was designed just for you. With a 3.42 UEF, it offers incredibly high efficiency and it can save homeowners up to \$305 a year in operating costs over standard electric models.
- No matter what your needs, you get the high efficiency you expect from the American Hybrid Electric Heat Pump Water Heater, almost like it was designed with you in mind.

## SAVINGS ARE GREATER WHERE ELECTRICITY RATES ARE HIGHEST

The greatest savings and quickest payback can often be in regions where the average temperatures are colder but electricity rates are higher. Operating 5 months out of the year in the heat pump mode where electricity rates are twice as high as the national average may yield more savings than operating 10 months in the heat pump mode where electricity rates may be lower.

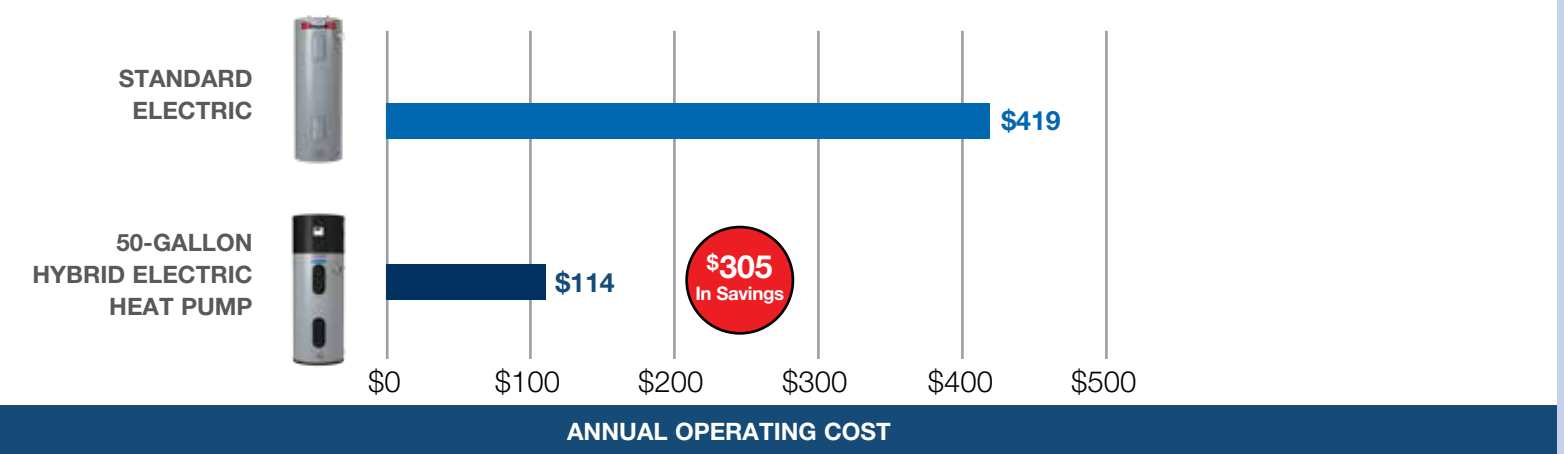
## DESIGNED TO CUT ENERGY COSTS BY MORE THAN HALF

On average, water heating accounts for 14% of household energy use, so savings in water heating costs make a big difference in a household budget.

That's why American developed its Hybrid Electric Heat Pump Water Heaters. They use significantly less energy to meet household water heating needs. It's a product that plumbers, wholesalers and homeowners can appreciate.

In fact, the American Hybrid Electric Heat Pump Water Heater can save a typical household up to \$305 per year on their electricity bills compared to a standard electric water heater. That's a savings of up to \$3,000 over a 10-year period. With a payback period of three years or less, the American Hybrid Electric Heat Pump Water Heaters are a great solution for an energy-efficient upgrade.

### COMPARE THE ENERGY COSTS WITH AMERICAN HYBRID ELECTRIC 50 GALLON HEAT PUMP



The American Hybrid Electric Heat Pump Water Heaters operate automatically use heat pump technology to efficiently heat water in the following manner:

- 1 A fan brings air through the air filter.
- 2 Heat in the air is absorbed by the refrigerant inside the evaporator coil.
- 3 The refrigerant is pumped through a compressor, which raises the temperature.
- 4 Hot refrigerant is circulated through the coil and transfers heat to the water.
- 5 The coil and storage tank are surrounded by "Environmentally-Friendly" Non-CFC foam insulation to reduce standby heat loss.

Based upon DOE test procedure and comparison of HPHE10250H045DVN and standard 50 gallon electric tank water heater.