

**STATE PREMIER® HYBRID ELECTRIC HEAT PUMP WATER HEATERS**

# **MORE EFFICIENCY. MORE SAVINGS.**

**WITH UP TO 2.4 ENERGY FACTOR (EF), THEY USE LESS THAN HALF  
THE ELECTRICITY OF STANDARD ELECTRIC WATER HEATERS**



**UP TO \$1,500 TAX CREDIT**



**SOLID.STATE.**



## A NEW ERA IN ELECTRIC WATER HEATING.

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 changes now, with State Premier® Hybrid Electric Heat Pump Water Heaters. Our new advanced design integrates heat pump technology to create a product that is 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.

Premier Hybrid Electric Heat Pump Water Heaters offer up to a 2.4 Energy Factor (EF). The new design features an integrated heat pump with an 850-watt compressor and external coil heat exchanger, with back-up electric elements. This combination provides greater energy efficiency and more energy savings, while providing multiple modes of operation for greater flexibility. Also, these models come with a powered anode rod that protects the tank for the entire life of the heater and allows better performance in a variety of water conditions.

### Designed to cut energy costs by more than half.

If you were to combine the energy used by a household's refrigerator, dishwasher, clothes washer and clothes dryer, all of those appliances together would still use less energy than the standard water heater.

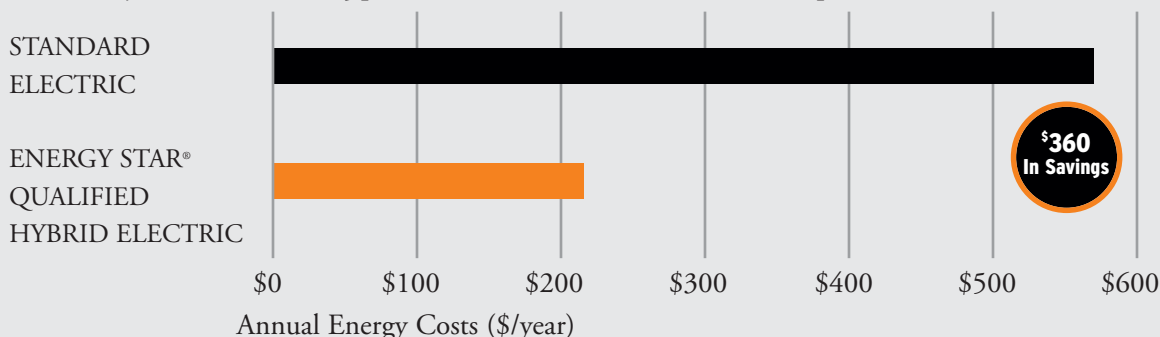
That's why State developed its Premier Hybrid Electric Heat Pump Water Heaters. They actually create more hot water than a standard electric water heater, but use significantly less energy. It's a product that plumbers, wholesalers and homeowners can appreciate.

In fact, State Premier Hybrid Electric Heat Pump Water Heaters can save the average household about \$360 per year on their electricity bills compared to a standard electric water heater. That's a savings of more than \$4,200 over a 12-year period. With a payback period of three years or less, State Premier Hybrid Electric Heat Pumps are a great solution for an energy-efficient upgrade.

#### Typical U.S. Household Energy Use

- 29% Heating
- 17% Cooling
- 14% **Water Heater**
- 13% Appliances
- 12% Lighting
- 11% Other
- 4% Electronics

### Compare the energy costs with State Premier Hybrid Electric Heat Pumps.



Based on average household of 2.6 occupants. U.S. Census, 2006

Source: DOE website—[www.energystar.gov/index.cfm?c=heat\\_pump\\_savings\\_benefits](http://www.energystar.gov/index.cfm?c=heat_pump_savings_benefits)





## HOW THEY WORK.

In "Efficiency" mode, State Premier Hybrid Electric Heat Pump Water Heaters operate automatically to heat water in the following manner:

1. A fan brings air through the top 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 copper coil and transfers heat to the water.
5. The copper coil and storage tank are surrounded by 2 inches of "Environmentally-Friendly" Non-CFC foam insulation to reduce standby heat loss.





## GREATER STORAGE CAPACITY TRANSLATES TO MORE ENERGY SAVINGS.

State Premier Hybrid Electric Heat Pump Water Heaters have higher capacity, designed to optimize the impact of the efficient heat pump technology. More storage capacity lets you store more of the hot water that was created by the heat pump. This capacity also enables the unit to operate in the maximum efficiency mode more often than other models with lower capacities.

### Large capacity allows use across all geographic zones.

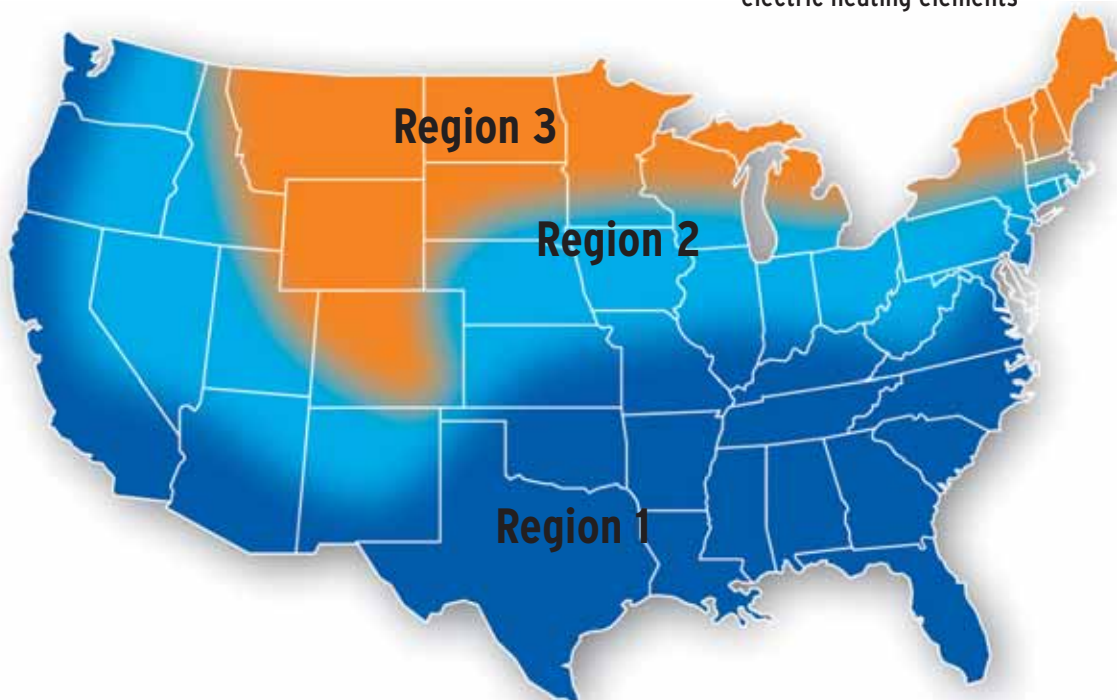
State Premier Hybrid Electric Heat Pump Water Heaters can be effectively used in all areas of the U.S. Based on ambient conditions, hybrid mode allows both of the heating components – heat pump and traditional heating elements – to operate in order to provide optimal performance.



**Region 1:** Heat pump will be used most of the year

**Region 2:** Majority heat pump operation

**Region 3:** Combination heat pump and electric heating elements



### 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. Operating 5 months out the year in the heat pump mode where electricity rates are two to three times higher will yield more savings than operating 10 months in the heat pump mode where electricity rates are lower.

# ADVANCED ELECTRONIC CONTROL.



## USER INTERFACE

- Large LCD touch pad display in plain English provides easy interaction.
- Safety lock feature prevents unwanted access.
- Status icons clearly indicate current operating mode.
- Three-line display communicates current status in plain English.
- Individual buttons allow homeowner to choose from four operating modes: Efficiency, Hybrid, Electric and Vacation.

### Choose from four operational modes.

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

**Efficiency Mode** – The most energy-efficient setting utilizes only the heat pump to extract warmth from the surrounding air and transfer it to the water. This mode provides up to 2.4 Energy Factor (EF). This extra capacity allows it to operate in the efficiency mode more frequently than smaller capacity units.

**Hybrid Mode** – When hot water demand is at its peak, this setting utilizes both the heat pump and conventional electric element to provide the needed amount of hot water. This mode will provide a highly efficient 2.33 EF.

**Electric Mode** – In electric mode, the unit operates as a conventional electric model utilizing the elements only to provide quick recovery.

**Vacation Mode** – One touch operation maintains tank temperatures of 60°F (15.6°C) during vacation or extended absense to reduce operating costs and provide freeze protection.





## State Premier Hybrid Electric Heat Pump Water Heaters

MODEL NUMBER	GALLON CAPACITY	ENERGY FACTOR BY MODE			FIRST HOUR RATING BY MODE			HEIGHT (INCHES)	DIAMETER (INCHES)	SHIPPING WEIGHT (LBS)
		EFFICIENCY*	HYBRID	ELECTRIC	EFFICIENCY	HYBRID	ELECTRIC			
EPX-60DHPT	60	2.40	2.33	.88	51	68	66	67-1/3	24-1/2	332
EPX-80DHPT	80	2.30	2.33	.85	70	84	76	81-1/2	24-1/2	410

\*Up to a 2.4 Energy Efficient (EF) Rating in Efficiency Mode.

### Qualifies for Federal Tax Credit.

These water heaters qualify for the energy-efficiency federal tax credit of up to \$1,500. The federal tax credit is limited to 30% of energy-efficient upgrades through 2010, with a total limit of \$1,500. Additional state and local utility incentives may also be available. Consult with your tax advisor for eligibility requirements and amount of tax credit.

### ENERGY STAR® QUALIFIED.

State Premier Hybrid Electric Heat Pump Water Heaters meet ENERGY STAR® qualifications.



**Contact your sales representative for more information.**

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