



**ecoSmart**<sup>®</sup>  
TANKLESS WATER HEATERS

*Sharing the Warmth*<sup>™</sup>

**Endless Hot Water**



At EcoSmart™, we develop innovative, life enhancing tankless electric water heaters for residential homes and businesses, enabling them to enjoy everyday living: sharing the warmth of endless hot water. Additionally, EcoSmart is part of the Rheem® family of brands.

Every EcoSmart tankless electric water heater delivers endless hot water, while also saving time, and reducing your overall energy and water use.\* All EcoSmart water heaters are ETL (Electrical Testing Laboratories) certified and comply with North American safety standards guaranteeing a safe and reliable water heating solution.

EcoSmart products can be used in a variety of applications from new construction to homes of any size and in businesses such as offices, restaurants and recreational vehicles. The self-modulating technology only consumes the power needed to satisfy your hot water demand. Each tankless electric water heater is easy to install, durable, and supported by a knowledgeable customer support team.

*\*When installed near the point-of-use.*

## These features are included with all EcoSmart tankless electric water heaters:

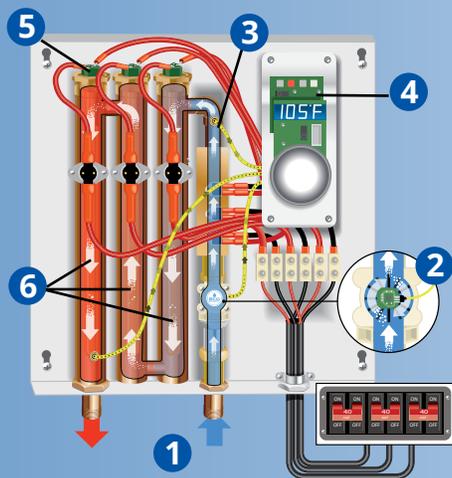
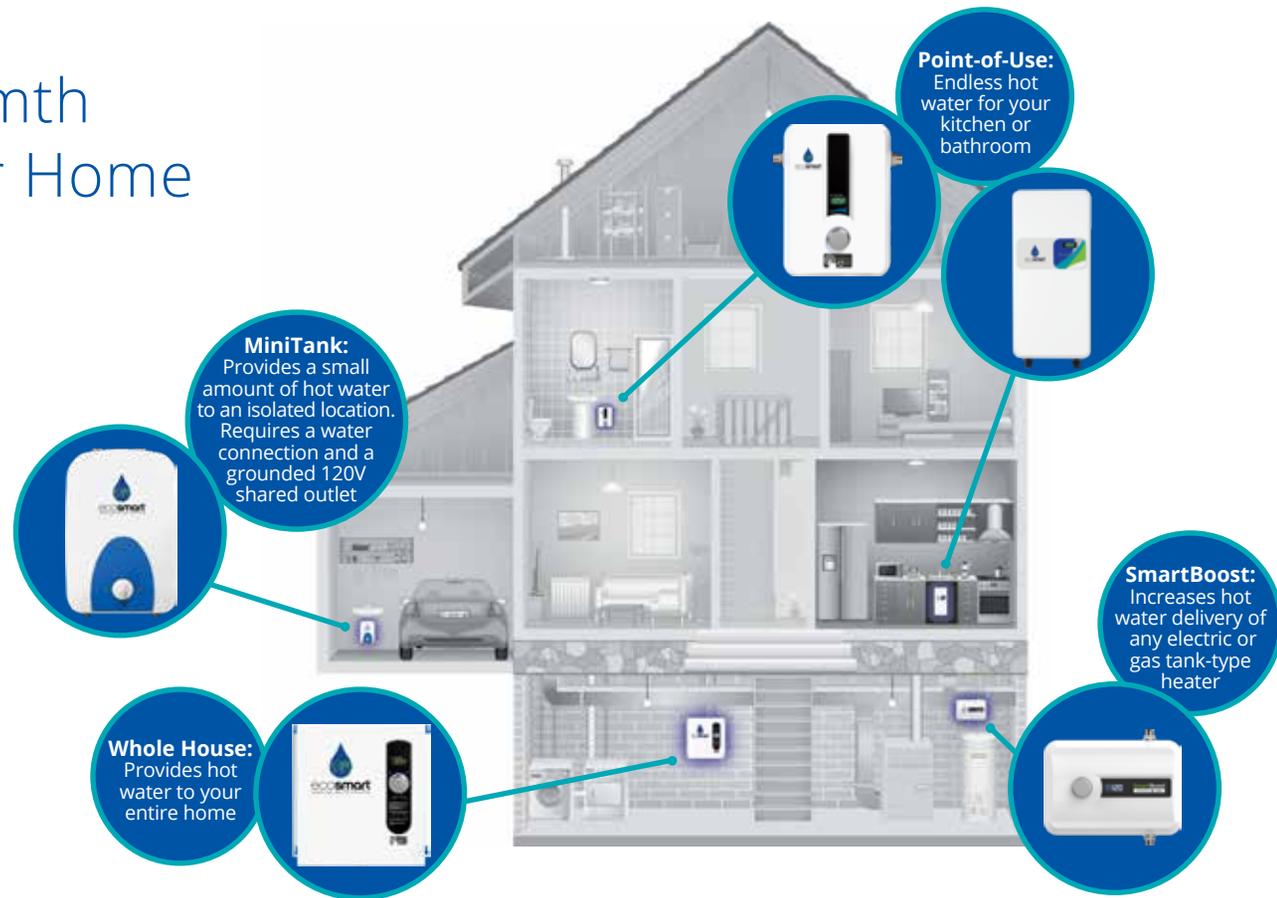
- » **Saves Space** – up to 93% smaller than a standard electric water heater.
- » **Saves Energy** – zero standby heat loss when installed near point-of-use.
- » **More Hot Water** – up to 4 times the hot water delivery of a standard electric tank (per hour).
- » **High Efficiency** – UEF up to .96 and advanced self-modulating technology only consumes the power needed to satisfy hot water demand.
- » Designed to be mounted in an upright position.
- » Venting is not required to operate, simplifying the installation process compared to a gas tankless water heater.

# Sharing the Warmth Throughout Your Home

Thanks to EcoSmart™ tankless electric water heaters, you can feel the warmth, while washing dishes, showering, or doing laundry. With EcoSmart you will be happier knowing the hot water you expect is available endlessly, consistently, and on-demand. Now that feels warm all over!



These products meet a stringent set of our company's internally defined sustainability standards



## How tankless electric water heaters work

1. Water enters the system through the cold water inlet pipe.
2. Flow sensor detects the gallons-per-minute flow rate and sends the information to the control board.
3. Inlet temperature sensor reads the temperature of the incoming water.
4. Control board utilizes the incoming temperature and flow rate to calculate the appropriate power output to reach the temperature set point.
5. Controls send the necessary voltage to the heating elements to achieve the correct power output.
6. Heating elements activate and heat the outgoing water to the appropriate temperature.

# Tankless Electric Water Heaters



**POINT-OF-USE**



**POINT-OF-USE / WHOLE HOME**

**EcoSmart™ POU 4T and POU 6T** point-of-use electric tankless water heaters are ideal for sink applications in bathrooms, wet bars, office breakrooms, and other point-of-use or low-flow applications. The POU 4T provides 0.5 - 0.8 GPM for one small sink. The POU 6T provides 0.6 - 1.4 GPM for a larger sink or 2 small sinks simultaneously providing endless hot water.

## PERFORMANCE FEATURES

- Digital **thermostatic** temperature controls in 1-degree increments ranging from 80°F - 140°F (26°C - 60°C).
- Two 0.35 GPM aerators are included for optimal temperature output and performance.
- Stainless steel heat exchanger reduces corrosion for long life.
- Brass 1/2" NPT fittings located on the bottom for the inlet and outlet water connections.

## SPECIFICATIONS & ELECTRICAL REQUIREMENTS

MODEL #	POU 4T	POU 6T	ECOS 12	ECOS 18	ECOS 27
<b>Power (kW)</b>	3.5	6.5	12	18	27
<b>Voltage</b>	120	240	240	240	240
<b>Required Breakers</b>	1x30 A	1x30 A Double Pole	1x50 A Double Pole	2x40 A Double Pole	3x40 A Double Pole
<b>Max Amperage</b>	29	27	50	75	112.5
<b>Required Wires</b>	10 AWG*	10 AWG*	8 AWG*	8 AWG*	8 AWG*
<b>Household Electrical Service Panel</b>	100 AMPS	100 AMPS	100 AMPS	150 AMPS	200 AMPS
<b>Uniform Energy Factor (UEF)</b>	0.95	0.94	0.95	0.96	0.94
<b>Dimensions (HxWxD)</b>	7" x 11" x 3"	7" x 11" x 3"	16.25" x 7.25" x 3.5"	19" x 9.25" x 4.25"	19" x 9.25" x 4.25"
<b>Weight</b>	4 lbs	4 lbs	5 lbs	9.3 lbs	10.9 lbs
<b>Warranty</b>	5 Years - Leaks, 1 Year - Parts. <i>See Use and Care Manual for complete information.</i>				

To select a unit that meets electrical and hot water gallons per minute (GPM) requirements, please use the sizing guide.

\*AWG- American Wire Gauge.

**EcoSmart™ ECOS 12, ECOS 18 and ECOS 27** tankless electric water heaters are available at a great value for new construction builds and all applications in the home including point-of-use installation. The compact design allows installation in tight spaces. In warmer climates, these models provide enough hot water to run multiple fixtures simultaneously.

## PERFORMANCE FEATURES

- Durable, lightweight engineered polymer shell does not rust or corrode.
- **EcoSmart™ Exclusive** – SafeStart™ technology engages upon start-up and after any power outage to help avoid dry-fire occurrence.
- Digital thermostatic temperature control in 1-degree increments ranging from 60°F - 140°F (26°C - 60°C).
- Stainless steel heat exchanger reduces corrosion for long life.
- Engineered polymer 1/2" NPT bottom fittings on the 12 kW and 3/4" NPT on the 18 kW and 27 kW.



**POINT-OF-USE**

EcoSmart™ ECO 8 and ECO 11 are designed for one or two applications and are installed at the point-of-use. The durable, compact design allows installation in tight spaces. Perfect for a low-flow faucet or bathroom faucet. In warmer climates, these models can accommodate a shower.

**PERFORMANCE FEATURES**

- Durable, lightweight engineered polymer shell does not rust or corrode.
- Digital thermostatic temperature controls in 1-degree increments ranging from 80°F - 140°F (26°C - 60°C).
- Stainless steel heat exchanger transfers heat fast and resists corrosion.
- Brass 1/2" compression fittings (CF) located on the side for the inlet and outlet water connections.



**WHOLE HOME**

EcoSmart™ ECO 18, ECO 24, ECO 27, ECO 36 tankless electric water heaters are ideal for new construction builds and all applications in the home including point-of-use installation. The durable, compact design allows installation in tight spaces. In warmer climates, these models provide enough hot water to run multiple fixtures simultaneously.

**PERFORMANCE FEATURES**

- Durable powder-coated shell with a galvanized steel backplate.
- Digital thermostatic temperature controls in 1-degree increments ranging from 80°F - 140°F (26°C - 60°C).
- Copper heat exchanger transfers heat fast and resists corrosion.
- Brass 3/4" NPT fittings located on the bottom for the inlet and outlet water connections.

**SPECIFICATIONS & ELECTRICAL REQUIREMENTS**

MODEL #	ECO 8	ECO 11	ECO 18	ECO 24	ECO 27	ECO 36
<b>Power (kW)</b>	8	13	18	24	27	36
<b>Voltage</b>	240	240	240	240	240	240
<b>Required Breakers</b>	1x40 A Double Pole	1x60 A Double Pole	2x40 A Double Pole	3x40 A Double Pole	3x40 A Double Pole	4x40 A Double Pole
<b>Max Amperage</b>	33	54	75	100	112.5	150
<b>Required Wires</b>	8 AWG*	6 AWG*	(2) 8 AWG*	(3) 8 AWG*	(3) 8 AWG*	(4) 8 AWG*
<b>Household Electrical Service Panel</b>	100 AMPS	100 AMPS	150 AMPS	200 AMPS	200 AMPS	300 AMPS
<b>Uniform Energy Factor (UEF)</b>	0.96	0.92	0.94	0.93	0.93	0.94
<b>Dimensions (HxWxD)</b>	11.5" x 8" x 3.75"	11.5" x 8" x 3.75"	17" x 14" x 3.75"	17" x 17" x 3.75"	17" x 17" x 3.75"	17" x 21" x 3.75"
<b>Weight</b>	4.75 lbs	6.5 lbs	11.25 lbs	13.75 lbs	13.75 lbs	17.4 lbs
<b>Warranty</b>	Limited Lifetime Warranty-product registration required. See Use and Care Manual for complete information.					

To select a unit that meets electrical and hot water gallons per minute (GPM) requirements, please use the sizing guide.

\*AWG- American Wire Gauge.

# Sizing a Tankless Electric Water Heater

**IMPORTANT** – Verify that your home meets the electrical requirements. See specifications and minimum requirements.

**1** Estimate your total household gallons per minute (GPM) needs by adding up the average flow rates by fixture (faucets, showers) that run at the same time.

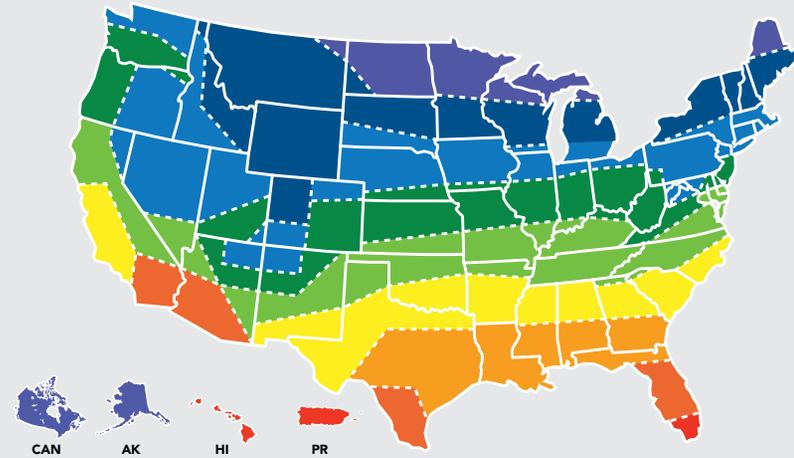
**Ex. 1 bathroom faucet and 1 low flow faucet running at the same time adds up to 1.5 GPM (1 + 0.5 = 1.5 GPM)**

### AVERAGE FLOW RATES (GPM) BY FIXTURE

DESCRIPTION	GPM
Low Flow Faucet	0.5
Bathroom Faucet	1
Kitchen Faucet	1.5
Shower	2
Dishwasher	2
Washing Machine	3

*Flow rates may vary.*

**2** Locate your zone on this **U.S. Average Ground Water Temperature Zone Map**.



**3** Select the model that can supply you with the estimated total household gallons per minute (Step 1) with the ground water temperature in your zone.

### FLOW RATE CAPACITY TABLE BY ZONE (GALLONS PER MINUTE - GPM)

Model #	Zone 1 37°F/3°C	Zone 2 42°F/5°C	Zone 3 47°F/8°C	Zone 4 52°F/11°C	Zone 5 57°F/14°C	Zone 6 62°F/17°C	Zone 7 67°F/20°C	Zone 8 72°F/22°C	Zone 9 77°F/28°C
POU 4T		Not Recommended			0.5	0.6	0.6	0.7	0.9
POU 6T	0.7	0.7	0.8	0.8	0.9	1.0	1.2	1.3	1.6
ECOS 12	1.2	1.3	1.4	1.5	1.7	1.9	2.2	2.5	2.9
ECOS 18	1.8	2.0	2.1	2.3	2.6	2.9	3.2	3.7	4.4
ECOS 27	2.7	2.9	3.2	3.5	3.8	4.3	4.9	5.6	6.6
ECO 8	0.8	0.9	0.9	1.0	1.1	1.3	1.4	1.7	2.0
ECO 11	1.3	1.4	1.5	1.7	1.9	2.1	2.3	2.7	3.2
ECO 18	1.8	2.0	2.1	2.3	2.6	2.9	3.2	3.7	4.4
ECO 24	2.4	2.6	2.8	3.1	3.4	3.8	4.3	5.0	5.9
ECO 27	2.7	2.9	3.2	3.5	3.8	4.3	4.9	5.6	6.6
ECO 36	3.6	3.9	4.2	4.6	5.1	5.7	6.5	7.5	8.8

*Flow rates are calculated to a set point of 105°F. Ground water temperature varies seasonally.*

# MiniTank™

**EcoSmart™ MiniTank** delivers hot water wherever you need it, for a large variety of uses such as an RV, garage, food truck, pleasure boat, outdoor kitchen, and recreational vehicles. Installed as a stand-alone point-of-use for a single fixture, multi fixtures, or as a booster in-line with a hot water tank.

## PERFORMANCE FEATURES

- Power cord connects to a grounded 120V shared outlet. No electrical work required.
- Compact and lightweight, installs in an upright position on the floor or wall, bracket included.
- Temperature adjusting dial controls the water temperature range from 50° - 140°F (10°C - 60°C).
- Temperature and pressure (T&P) relief valve included.

## SPECIFICATIONS & ELECTRICAL REQUIREMENTS

All products 120V, 12 Amps



Model #	Gallons	Dimensions (H x W x D)	Weight	Power	Recovery Time	Warranty
<b>ECO MINI 1</b>	1	15.1" x 9.8" x 9.9"	11.75 lbs	Plug-In	8 Minutes	6 Years - Leaks. 2 Years - Parts. See Use and Care Manual for complete information.
<b>ECO MINI 2.5</b>	2.5	17" x 11" x 11.5"	15.8 lbs	Plug-In	15 Minutes	
<b>ECO MINI 4</b>	4	18.1" x 12.4" x 12.9"	19.3 lbs	Plug-In	24 Minutes	
<b>ECO MINI 6</b>	6	20.9" x 13.9" x 14.3"	25.96 lbs	Plug-In	37 Minutes	

# SmartBoost®

**EcoSmart™ SmartBoost®** conveniently installs on the tank outlet water connection with the option to mount on a nearby wall. It's a smart way to deliver more hot water when a tank alone can't keep up with the demand. **Delivers up to 45%\* More Hot Water.**

## PERFORMANCE FEATURES

- Easy to read digital display shows the inlet and outlet water temperature, operation status, water flow (GPM) and electricity load percentage.
- Control dial sets the activation and maximum temperature in 1-degree increments ranging from 80°F - 140°F (26°C - 60°C).
- Vacation mode† turns tank water heater off while the home is unoccupied, saving energy.
- Eco mode† allows user to schedule SmartBoost operation and take advantage of off-peak utility rates saving money on energy bills.
- Freeze Protect† overrides vacation and eco modes if the ambient temperature drops below 60°F (15°C) to prevent damage.
- Includes ¾" push-to-connect outlet fitting and ¾" NPT female fitting for installation onto the tank.

## SPECIFICATIONS & ELECTRICAL REQUIREMENTS



Model #	kW	Voltage	Amperage	Required Wire	Uniform Energy Factor (UEF)	Pipe Fitting	Dimensions (H x W x D)	Weight	Activation Flow	Warranty
<b>ECOTB240</b>	7.2/5.4	240/208	30/26	10 AWG**	0.96	½" CF	8" x 11.5" x 3.75"	5.4 lbs	0.3 GPM	Limited Lifetime Warranty. Product registration required. See Use and Care Manual for complete information.

\*Average hot water delivery increase based on 1.5 and 2.5 GPM shower flow rate using third party testing procedures.

†Does not apply when used with a gas tank.

\*\*AWG- American Wire Gauge.



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