

EcoSmart™ ECO Tankless Electric Water Heaters

Provide Endless Hot Water in a Durable, Space-Saving Design

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. All ECO models include a lifetime limited warranty. To select a unit that meets electrical and hot water gallons per minute (GPM) requirements, please use the sizing guide.

PERFORMANCE FEATURES

- **Saves Space** – up to 93% smaller than a standard electric water heater
- **Saves Energy** – zero standby heat loss when installed near the 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 .94 and advanced self-modulating technology only consumes the power needed to satisfy hot water demand
- Copper immersion heating elements fit into a multi-chamber design to improve the thermal performance providing better temperature control and faster recovery of hot water
- Copper heat exchanger transfers heat fast and resists corrosion
- Durable powder-coated shell with a galvanized steel backplate
- Brass NPT fittings located on the bottom for the inlet and outlet water connections provide strength and durability
- Designed to be mounted in an upright position with the inlet and outlet water connections at the bottom of the unit for ease of installation
- Venting is not required to operate, simplifying the installation process compared to a gas tankless water heater
- Digital thermostatic temperature controls in 1-degree increments ranging from 80°F - 140°F (26°C - 60°C)

WARRANTY

- Limited Lifetime Warranty – product registration required
See Use and Care Manual for complete information.



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

TANKLESS ELECTRIC SPECIFICATIONS & MINIMUM REQUIREMENTS

Model #	ECO 18	ECO 24	ECO 27	ECO 36
Power (kW)	18	24	27	36
Voltage	240	240	240	240
Total Unit Amperage (AMPS)	75	100	113	150
Required Number of Dedicated Circuit Breakers	2 x 40 A DP*	3 x 40 A DP*	3 x 40 A DP*	4 x 40 A DP*
Household Electrical Service Panel Recommendations	150 AMPS	200 AMPS	200 AMPS	300 AMPS
Phase	1	1	1	1
Uniform Energy Factor (UEF)	0.94	0.93	0.93	0.94
Required Wire (75°C Insulation)	2 x 8 AWG**	3 x 8 AWG**	3 x 8 AWG**	4 x 8 AWG**
Water Connections	¾" NPT	¾" NPT	¾" NPT	¾" NPT
Multi-Chamber Design	2 chambers	3 chambers	3 chambers	4 chambers
Dimensions	17" H x 14" W x 3.635" D	17" H x 17" W x 3.625" D	17" H x 17" W x 3.625" D	17" H x 21" W x 3.625" D
Weight	11.7 lbs.	14.25 lbs.	14.7 lbs.	18.35 lbs.
Heat Exchanger	Copper	Copper	Copper	Copper
Operating Pressure	Minimum: 25 PSI Maximum: 150 PSI			
Flow Activation Rate (GPM)	0.3 GPM			

NOTE: When converting from an electric tank to an electric tankless water heater, household electric service panel upgrades are often required. Please see the electric service panel recommendations above.

*DP - Double Pole **AWG - American Wire Gauge

WHOLE HOME



ECO 18



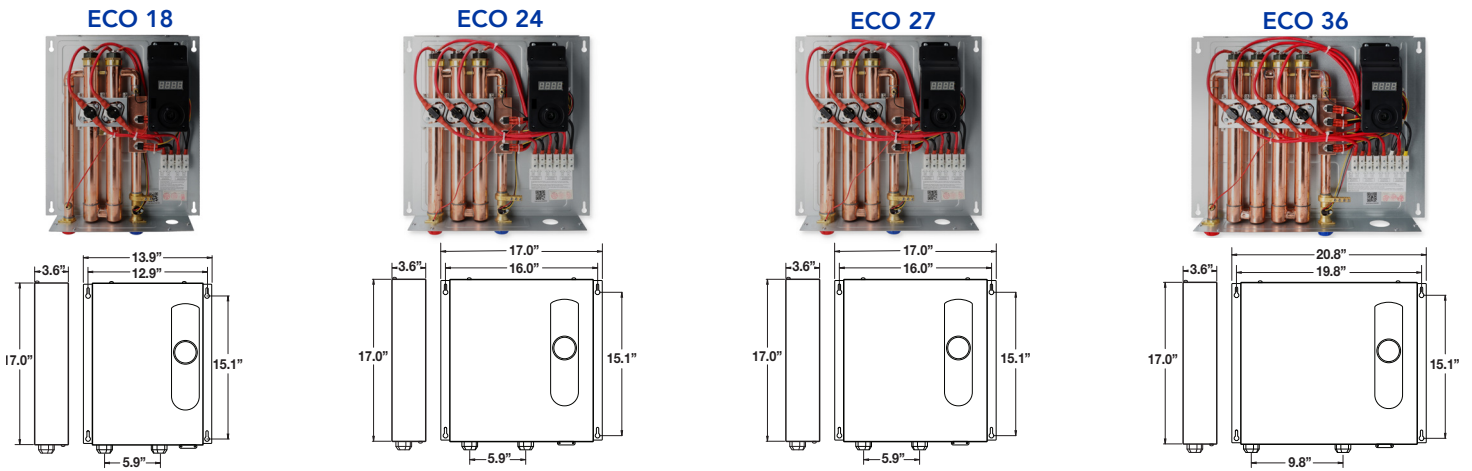
ECO 24



ECO 27



ECO 36



SIZING A TANKLESS ELECTRIC WATER HEATER

IMPORTANT – Verify that your home meets the electrical requirements. See specifications and minimum requirements. (front side)

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

Ex. 1 shower and 1 kitchen faucet running at the same time adds up to 3.5 GPM (2 + 1.5 = 3.5 GPM)

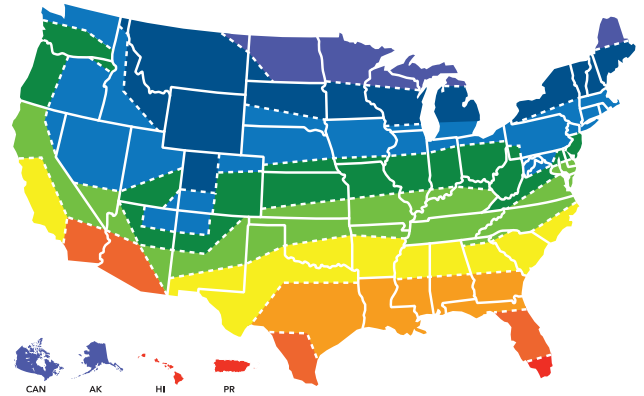
AVERAGE FLOW RATES (GPM) BY FIXTURE

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 the map.

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
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.



ecosmart
TANKLESS WATER HEATERS

Sharing the Warmth™