

EcoSmart™ ECOS Tankless Electric Water Heaters Provide Endless Hot Water at a Great Value

ECOS 12 is designed for one or two applications and is installed at the point-of-use. The compact design allows installation in tight spaces. Perfect for a low flow faucet or bathroom faucet. In warmer climates, this model can accommodate a shower. 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 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 .95 and advanced self-modulating technology only consumes the power needed to satisfy hot water demand
- Copper sheathed immersion heating elements fit into a single chamber with threaded brass connections for easy replacement
- Stainless steel heat exchanger reduces corrosion for long life
- **EcoSmart™ Exclusive** – SafeStart™ technology engages upon start-up and any power outage to help avoid dry-fire occurrence and protect the unit
- Durable, lightweight engineered polymer shell does not rust or corrode
- 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 60°F - 140°F (26°C - 60°C)

WARRANTY

- 5 Years - Leaks, 1 Year - Parts.
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 #	ECOS 12
Power (kW)	12
Voltage	240
Total Unit Amperage (AMPS)	50
Required Number of Dedicated Circuit Breakers	1 x 50 A Double Pole
Household Electrical Service Panel Recommendations	100 AMPS
Phase	1
Uniform Energy Factor (UEF)	0.95
Required Wire (75°C Insulation)	8 AWG*
Water Connections	1/2" NPT
Dimensions	16.25"H x 7.25"W x 3.5"D
Weight	5 lbs.
Heat Exchanger	Stainless Steel
Operating Pressure	Minimum: 30 PSI Maximum: 150 PSI
Flow Activation Rate (GPM)	0.3 GPM

*AWG - American Wire Gauge

POINT-OF-USE



ECOS 12



Tested and certified by the Water Quality Association against NSF/ANSI 372 for lead free compliance.

ECOS 12



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 (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)

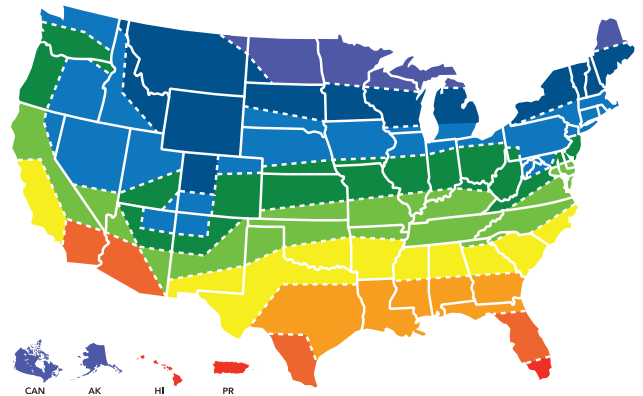
AVERAGE FLOW RATES (GPM) BY FIXTURE

Low Flow Faucet	0.5
Bathroom Faucet	1
Kitchen Faucet	1.5
Low Flow Shower	1.5
Shower	2

Flow rates may vary.

- 2 Locate your zone on the map.

U.S. AVERAGE GROUND WATER TEMPERATURE ZONE MAP

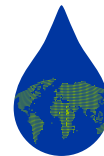


- 3 Select the model that can supply you with the estimated total household gallons per minute (Step 1) with the ground water temperature in your zone.

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
ECOS 12	1.2	1.3	1.4	1.5	1.7	1.9	2.2	2.5	2.9

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



ecosmart[®]
TANKLESS WATER HEATERS

Sharing the Warmth™