

## EcoSmart® Element™ Tankless Electric Water Heaters Provide Endless Hot Water at a Great Value

The durable, compact design is easy to use, install and maintain. 12 kW models are best suited for point-of-use installation. In warmer climates, 18 kW and 27 kW units can provide endless hot water to an entire single-family home.

### PERFORMANCE FEATURES

- On-demand water heating eliminates standby loss for greater efficiency.
- Compact design of the 240-volt, 12 kW model allows it to be mounted near a point-of-use.
- Copper immersion heating elements fit into a single chamber with threaded brass connections for easy replacement.
- Patented self-modulating software makes power adjustments to deliver efficient water heating.
- SafeStart™ technology engages upon start-up and any power outage to help avoid dry-fire occurrence.
- Durable, lightweight engineered polymer shell does not rust or corrode.
- Stainless steel heat exchanger reduces corrosion for long life.
- Digital temperature control in 1-degree increments ranging from 60 °F -140 °.

### 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

Element Model #	ECOS 12	ECOS 18	ECOS 27
Power (kW)	12	18	27
Voltage	240	240	240
Total Unit Amperage (AMPS)	50	75	112.5
Required Number of Dedicated Circuit Breakers	1 x 50 A DP*	2 x 40 A DP*	3 x 40 A DP*
Household Electrical Service Panel Recommendations	100 AMPS	150 AMPS	200 AMPS
Phase	1	1	1
Uniform Energy Factor (UEF)	0.95	0.96	0.94
Required Wire (75°C Insulation)	8 AWG	8 AWG	8 AWG
Water Connections	½" NPT	¾" NPT	¾" NPT
Dimensions	16.25"H x 7.25"W x 3.5"D	19"H x 9.25"W x 4.25"D	19"H x 9.25"W x 4.25"D
Weight	5 lbs.	9.3 lbs.	10.9 lbs.
Heat Exchanger	Stainless Steel	Stainless Steel	Stainless Steel
Operating Pressure	Minimum: 30 PSI   Maximum: 150 PSI (Note: Flow Activated at 0.3 GPM)		

\*DP- Double Pole

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

#### POINT-OF-USE



ECOS 12

#### WHOLE HOUSE



ECOS 18

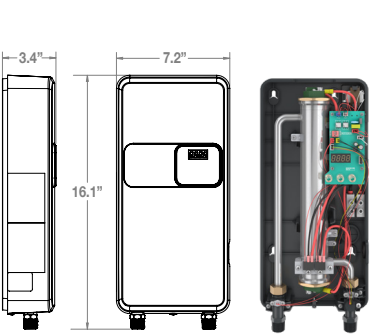


ECOS 27

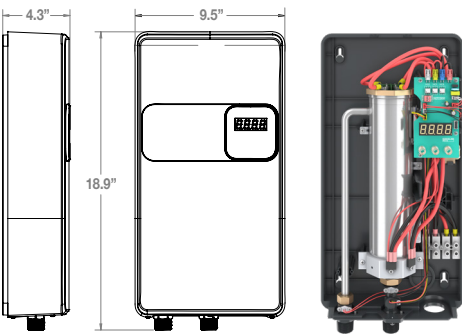


Tested and certified by the Water Quality Association against NSF/ANSI 372 for lead free compliance.

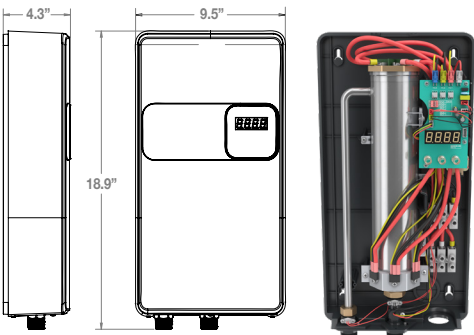
ECOS 12



ECOS 18



ECOS 27

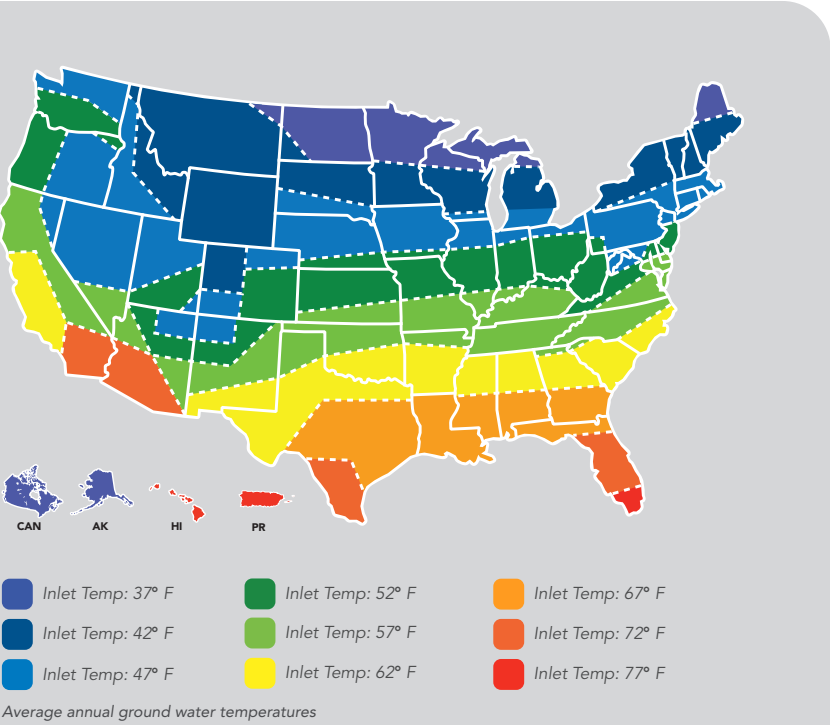


FLOW RATE CAPACITY CHART SHOWN IN GPM

Below is a chart showing the flow rate capacity of each model, measured in gallons per minute for various inlet water temperatures and calculated for a set output temperature of 105° F. Inlet temperature varies by region and seasonal changes.

Element Model #	Inlet Temperature								
	37°F	42°F	47°F	52°F	57°F	62°F	67°F	72°F	77°F
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

FLOW RATE SIZING MAP



AVERAGE FLOW RATE (GPM\*) BY APPLICATION

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

\*Gallons per minute

