AMBIENT electric boiler



100% EFFICIENT, ZERO EMISSIONS

 Modern residential design, easy to install (only 54 lbs.)

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- 16, 20, & 24kW output (54.6, 68.2, & 82 MBH)
- Reliable, American-made, steel water tube heat exchanger
- UL 834 listed
- User-friendly boiler control
- Automatically cycles elements, extending product life
- Easy to service complete interior access, top-mounted elements (no draining)
- Made in USA, supported by industry leading hydronics experts
- 20-year heat exchanger warranty,
 2-year parts warranty









Electric Boiler Technical Information







Specifications Specification Specif															
											Recommended Copper Wire ³			Recommended Aluminum Wire ⁴	
Model	Boiler Size (kW)	Volt- age (AC)	Output Power (Watts)	Output Power (MBH)	Amps	Element Size (Watts)	Pump Load (Amps)	Total Amps	MCA ¹	MOP ²	140°F (60°C) AWG	167°F (75°C) AWG		140°F (60°C) AWG	167°F (75°C) AWG
EB-16	16	240	16,000	54.6	66.7	4,000	5	72.7	90.8	100	2	3	4	1/0	1
EB-20	20	240	20,000	68.2	83.3	5,000	5	89.3	111.7	125	1/0	2	2	2/0	2/0
EB-24	24	240	24,000	82.0	100.0	6,000	5	106.0	132.5	150	2/0	1/0	1	4/0	3/0

- Minimum Circut Ampacity (MCA) is a calculated value that specifies the minimum primary power wire size to determine the minimum wire size required for a field wired product. Maximum Over-Current Protection (MOP) is a calculated value that determines the maximum size of the over-current protection device (fuse or beaker).
- Recommended Field Wire Size per National Electric Code (NEC). Check with latest version of NEC and local codes. No more than three (3) current-carrying conductors in raceway. Based on ambient temperature of 86°F (30°C). Other ambient temperatures see NEC or CEC for correction factors. UL-834, Section 14.2.

 Recommended aluminum wire (not for use in Canada). It is recommended to apply antioxidant paste for aluminum conductors. Aluminum is more malleable than copper avoid cuts or nicks
- during termination.

Standard Equipment

- · Steel water tube heat exchanger, coated
- · Steel jacket, powder coated
- · Dual built-in 60-amp circuit breakers
- · Cooling fan
- · Flow switch

- · Boiler control w/diagnostic display
 - Anti short-cycle timer
 - Automatic element cycling
 - Fault & dry-fire protection
 - Dual setpoint
- DHW priority
- · Secondary high limit (manual)
- Enhanced individual element relays, pump switching relay
- Temp/pressure gauge
- ASME pressure relief valve, 30 PSI
- · Boiler drain valve

Dimensions (in.), Weights (lbs.), & Volume (gal.)												
Model	A	В	С	Boiler Supply	Boiler Return	Water Volume	Approximate Shipping Weight	Flow Switch Tee	Air Vent	Relief Valve	T/P Gauge	
EB-16	23	18	9-3/4	3/4	3/4	2.2	70	3/4	3/4	3/4	1/4	
EB-20	23	18	9-3/4	3/4	3/4	2.2	70	3/4	3/4	3/4	1/4	
EB-24	23	18	9-3/4	3/4	3/4	2.2	70	3/4	3/4	3/4	1/4	

Special circuit/outlet for 240V single phase service required for boiler power



