



ECONO-HEAT™ HIGH TEMPERATURE FURNACES

Technical Bulletin E2

Aremco offers a complete line of electric box furnaces from 0.5 to 7.5 cubic feet for applications to 2350 °F. All furnaces are ruggedly constructed and energy efficient, and a wide range of temperature controls are offered for every type of use. Custom features and sizes are also available upon request.

PRODUCT HIGHLIGHTS

- All furnaces are built with 3" premium insulating firebrick and 1" fiber board to permit rapid firing.
- Elements are protected in dropped recessed side wall grooves to provide even heating, longer life, and easy replacement.
- Outer shells are constructed using stainless steel to improve the casing resistance to high temperatures.
- Front-loading and top-loading door styles are offered.
- Alternate power requirements for domestic and international use are easily accommodated.
- Replacement elements are available on a just-in-time basis.
- User-friendly programmable controller.

TYPICAL APPLICATIONS

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| <ul style="list-style-type: none"> • Ash Determinations • Assaying • Tempering • Hardening • Heat Treating • Glass Annealing • Melting • Fusions • Dry Precipitates • Curing Plastics | <ul style="list-style-type: none"> • Thermal Cycling • Carbon & Sulphur Tests • Cement Tests • Glass & Enamel Tests • Jominy Hardness Tests • Petroleum Tests • Powder Metallurgy • Thermocouple Standardization • Ceramic Tests • Ignitions |
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TEMPERATURE CONTROLLER

All Econo-Heat™ furnaces are built using the Sentry Xpress 4.0 Temperature Controller by Orton. This controller is a 3-button, 4-segment LED controller that provides 5 built-in speed settings (ramp rate) and the capability to store up to 4 programs with a maximum of 8 segments per program. This flexible, user-friendly controller enables quick and easy programming by the operator.

OPTIONS

Econo-Heat™ furnaces can be modified to include useful features such as view ports, entry holes, or gas intake and exhaust fittings. Larger area and ultra-high temperature furnaces are also available. Contact Aremco's sales engineering department to discuss your requirements.



Econo-Heat™ 2928-B Furnace. This model has a work area of 13" x 13 1/2" x 8 3/4" and is equipped with a single set point analog temperature controller.



The Econo-Heat™ furnace shown is a custom unit designed for an aerospace manufacturer for use in heat treating. This furnace has a work area of 42" x 42" x 65", and a unique temperature control system consisting of 21 elements each with its own infinite control switch to permit uniform heating of complex shapes.



Econo-Heat™ 2931 Top-Loading Furnace. This model has a work area of 17" x 20" x 17" and is capable of 2400 °F operation using single phase service, 240 Volts and 40 Amps.





ECONO-HEAT™ 2900-SERIES FURNACE SPECIFICATIONS

Model No.	Size (W"x D" x H")		Style		Power			Maximum Temp. °F (°C)	Approx. Weight (lbs)	Heating Elements Per Unit
	ID	OD (Approx)	Front Load	Top Load	Volts	Amp	Phase			
2927	8.5 × 9 × 8.75	16.5 × 17 × 21.75	X		120	15	1	2350 (1288)	80	2
2928	13 × 13.5 × 8.75	21 × 21.5 × 21.75	X		240	15	1	2350 (1288)	110	2
2929	22 × 22 × 13.5	30 × 30 × 26.5	X		240	45	1	2350 (1288)	295	3
2930	15 × 18 × 15	29.5 × 29 × 29		X	240	30	1	2350 (1288)	280	4
2931	17 × 17 × 20	31 × 31 × 31		X	240	40	1	2350 (1288)	300	4
2932	21.5 × 21.5 × 24.5	31 × 36 × 35		X	240	45	1	2350 (1288)	410	5

