ECONO-HEAT™ HIGH TEMPERATURE FURNACES

Technical Bulletin E3

Aremco offers a complete line of electric box furnaces from .1 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

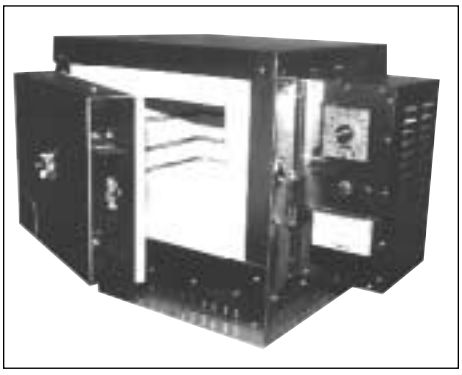
- *All furnaces are built with 3" premium insulating firebrick and 1" fiber board to permit rapid firing.*
- *Elements are protected in dropped recessed side wall grooves to provide even heating, longer life, and easy replacement.*
- *Outer shells are constructed using stainless steel to improve the 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.*

TYPICAL APPLICATIONS

- *Ash Determinations*
- *Assaying*
- *Tempering*
- *Hardening*
- *Heat Treating*
- *Glass Annealing*
- *Melting*
- *Fusions*
- *Dry Precipitates*
- *Curing Plastics*
- *Thermal Cycling*
- *Carbon & Sulphur Tests*
- *Cement Tests*
- *Glass & Enamel Tests*
- *Jominy Hardness Tests*
- *Petroleum Tests*
- *Powder Metallurgy*
- *Thermocouple Standardization*
- *Ceramic Tests*
- *Ignitions*

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.

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ECONO-HEAT 2900-SERIES FURNACE SPECIFICATIONS

MODEL NO.	SIZE (W" x D" x H")		STYLE		POWER			Max. Operating Temp. (° F)	Apprx. Wt. (lbs.)	Controller Options	ELEMENTS
	ID	OD (Approx.)	Front Load	Top Load	Volts	Amp	Phase				No. Per Unit
2926	$6^1/_4$ x $6^1/_2$ x 6	$14^1/_4$ x $14^1/_2$ x 19	X		120	15	1	2350	60	B,C	2
2927	$8^1/_2$ x 9 x $8^3/_4$	$16^1/_2$ x 17 x $21^3/_4$	X		120	15	1	2350	80	B,C	2
2928	13 x $13^1/_2$ x $8^3/_4$	21 x $21^1/_2$ x $21^3/_4$	X		240	15	1	2350	110	B,C	2
2929	22 x 22 x $13^1/_2$	30 x 30 x $26^1/_2$	X		240	45	1	2350	295	B,C	3
2930	15 x 18 x 15	$29^1/_2$ x 29 x 29		X	240	30	1	2350	280	B,C	4
2931	17 x 17 x 20	31 x 31 x 31		X	240	40	1	2350	300	B,C	4
2932	$21^1/_2$ x $21^1/_2$ x $24^1/_2$	31 x 36 x 35		X	240	45	1	2350	410	B,C	5

TEMPERATURE CONTROL SYSTEMS

Option	Controller Type	Description
"B"	Single Set-Point Control	This controller allows the user to dial in the desired operation temperature of the furnace. Upon reaching that temperature, the control system will hold indefinitely to an accuracy of ± 2%. The power goes on and off as required to remain within this tolerance. This option includes a built-in pyrometer offering constant temperature readout even when the power switch is off. The pyrometer reads in both Centigrade and Fahrenheit.
"C"	Programmable Controller	This is a microprocessor-based ramping temperature controller. Features include a single input, dual output, auto-tuning control with 24-step program capability and easy fixed set point operation. PID or on/off operating algorithms are included. Optional RS-232C, RS-422A, RS-423A, and EIA-485 communications ports, and a strip chart recorder output are available. Operator-friendly features include automatic LED indicators to aid in monitoring and setup, as well as a calibration offset at the front panel. This controller automatically stores all information in a non-volatile memory.

How to Order

Select the model number and controller type and combine to make a single part number (eg. 2928-C). Refer to the Econo-Heat™ Price List for each possible model and controller combination.

Refer to Price List for complete order information.