

# ED ELEVATOR FURNACE

## GENERAL INFORMATION

The furnace operates at temperatures up to 1800°C in air. It is a single-zone, bottom-loading furnace with built-in power supply. The furnace utilizes an energy efficient insulation package consisting of graded, ceramic fiber high-temperature insulation. The walls and hearth are made of rugged firebrick with a thermocouple port in the rear wall for temperature measurements.

The bottom loading elevator assembly includes an electric-driven motor control for raising and lowering the insulated hearth. The elevator features a speed controller that allows the user to adjust the speed, and motion lights to indicate when the elevator is in use. This allows the user to use extremely slow elevator speeds. The speed is electronically controlled to allow for smooth motion and accurate, repeatable travel time. The mobile elevator is capable of lifting over 500 lbs of work. Safety switches allow for automatic stop when the furnace elevator is opening and closing. The elevator speed can be changed before, during, and after the run for optimal ease of use.

## HEATING ELEMENT

The furnace utilizes Moly Disilicide heating elements capable of 1800°C in air. The heating elements are located on the three sides of the furnace chamber to maximize uniformity.

## CONTROLLER

The furnace system comes complete with Mellen model PS400 temperature control and phase-angle fired SCR power supply. The power supply consists of the following major components: a customer specified digital temperature controller; a furnace-specific number of phase-angle fired power limiting SCRs; a circuit breaker with appropriate voltage and amperage ratings to permit connection to customer's main power source; a Mellen Control Cabinet to house all control system components; all necessary wiring, terminal boards, interconnections, etc. to create a completely operational system.



SERIES	ED Elevator Furnace
MAX TEMPERATURE	1800°C
ELEMENT TYPE	Moly Disilicide
CONTROLLER	PS400
VOLTS	208V/240V

*As always, if this product does not meet your requirements, please contact us.  
Mellen will work with you personally to create a product that best suits your needs every time.*

Prices are valid until 2018.



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MODEL	HEATED LENGTH (WxHxD)	V:W	EXTERNAL DIMENSIONS (WxHxD)	MAX TEMP
ED16-6x6x6	6"x6"x6"	208V/240V:8050W	38"x26"x40"	1600°C
ED16-12x12x12	12"x12"x12"	208V/240V:11500W	44"x32"x52"	1600°C
ED16-12x12x18	12"x12"x18"	208V/240V:14950W	44"x32"x64"	1600°C
ED16-18x18x18	18"x18"x18"	208V/240V:19550W	50"x34"x64"	1600°C
ED16-24x24x24	24"x24"x24"	208V/240V:29900W	56"x40"x76"	1600°C
ED16-24x24x36	24"x24"x36"	208V/240V:36800W	56"x40"x100"	1600°C
ED16-24x24x60	24"x24"x60"	208V/240V:49020W	56"x40"x148"	1600°C
ED16-36x36x36	36"x36"x36"	208V/240V:52900W	68"x52"x100"	1600°C
ED16-48x48x48	48"x48"x48"	208V/240V:83950W	80"x64"x124"	1600°C
ED17-6x6x6	6"x6"x6"	208V/240V:10350W	38"x26"x40"	1700°C
ED17-12x12x12	12"x12"x12"	208V/240V:13800W	44"x32"x52"	1700°C
ED17-12x12x18	12"x12"x18"	208V/240V:17250W	44"x32"x64"	1700°C
ED17-18x18x18	18"x18"x18"	208V/240V:23000W	50"x34"x64"	1700°C
ED17-24x24x24	24"x24"x24"	208V/240V:34500W	56"x40"x76"	1700°C
ED17-24x24x36	24"x24"x36"	208V/240V:41400W	56"x40"x100"	1700°C

Please note, all exterior dimensions are approximate.

