



## PRODUCT BULLETIN

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# HIGH TEMPERATURE TOP HAT LOADING FURNACES

Our bench size, Top Hat design, is the least expensive high temperature furnace we sell. State of the art refractory materials and molydisilicide heating elements on all four sides promote the ultimate in temperature uniformity and energy efficiency. A counterweight support system allows the operator to smoothly and easily raise and lower the furnace, leaving the work load undisturbed on the bottom platform. 6" wide x 6" deep x 6" high clear workspace. It comes complete with a control system designed for efficient furnace operation, at-tuned to your process requirements.



The 8 cubic foot model shown has a clear workspace 24" wide x 24" deep x 24" high. The fixed loading platform promotes operator safety and process products weight and size stability. Counterweight support coupled with an airlift system allow smooth opening and closing. The unique top hat design ensures excellent temperature uniformity and heat efficiency.

### TEMPERATURE RANGE AVAILABLE:

2912°F/1600°C.  
3100°F/1704°C.

### STANDARD SIZES (Working Volume)

6" x 6" x 6"  
12" x 12" x 12"  
24" x 24" x 24"  
36" x 36" x 36"

Custom configurations are also available. For example. units with workspaces 10" x 10" x 10" high; 55" x 55" x 26" high; and 48" x 48" x 36" high were among those built to customer specifications.

### REFRACTORY

Rugged fireproof asbestos free" insulation panels of space-age fiber refractory specially treated to withstand frequent fast-heating, fast-cooling cycles.

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## FURNACE CONSTRUCTION

No steel' shell alleviates burning and warping but retains wall shape, thus preventing unpredictable refractory movement and cracking, reducing radiation heat loss and subsequent failure, assuring longest possible furnace life.

## HEATING ELEMENTS

Molydisrlicide elements are quick responding and do not require resistance matching. Elements are connected and supported with split, solid aluminum buss-bars or ceramic supports with braid connectors. Many sizes of replacement elements are maintained in stock.

## CONTROL SYSTEMS

Standard packages include programmable temperature controller; overtemperature protection system; SCR; transformer; and thermocouple. Control systems are mounted in a steel cabinet. Custom control packages are available upon request.

Catalog Number	Description
090E-100	6" X 6" X 6" (H), Maximum Temperature of 2,800 <sup>0</sup> F 6" X 6" X 6" (H), Maxiimum Temperature of 3,272 <sup>0</sup> F
OTHER SIZES ARE AVAILABLE	