

SINTERMASTER

Sintermaster furnaces are designed for sintering of powdered ceramics and metals under closely monitored conditions. Each furnace is supplied as a complete operating system and includes: vacuum chamber, graphite heat zone, power supply, mechanical vacuum pump, and a programmable control system.

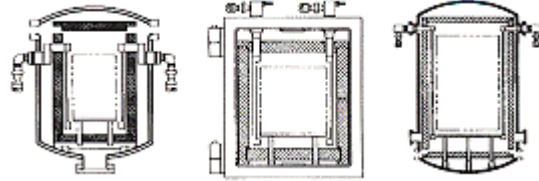
Standard furnaces are equipped for routine operation to 2200 °C. Alternate power supplies can be specified for lower temperature processing of powdered metals or higher temperature processing of more refractory ceramics. Additional options include larger vacuum pumps, cooling fans, retorts, condensers, traps, data recording, and specialized atmospheric controls.

Loading	Work Zone (inches)	Power Supply (KVA)	Model Number
Top	5"x 10	40	612
Top	10"x 14	60	1218
Front	12 x 12 x 12	80	121212
Bottom	13"x 18	110	1624
Front	12 x 12 x 24	140	121224
Bottom*	18 "x 24	175	1824
Bottom*	24 "x 36	300	2436
Bottom*	36 "x 48	500	3648
Bottom*	48 "x 60	800	4860

*Front loading available
Other sizes available

HIGH THROUGHPUT

Efficient thermal insulation results in low power losses, leaving ample power reserves for fast heat-up. Larger optional power supplies can be provided for even faster heating, as well as cooling fans for forced gas circulation and rapid cool-down.



Top Loader
(Model 612)

Front Loader
(Model 121224)

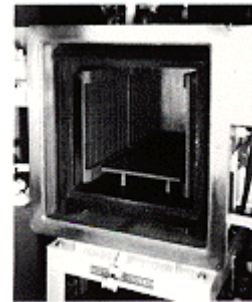
Bottom Loader
(Model 2436)

HEAT ZONE

Graphite resistance heating elements are surrounded by low density fibrous graphite insulation designed to keep power losses to a minimum. Stated work zone sizes are for actual usable volume, with generous clearance for the elements to facilitate loading and prevent non-uniformity from 'temperature banding' effects.

Typical furnace uniformity for side mounted heaters is ±0.5% from 200°C to 2500°C in vacuum, argon or nitrogen. Optional upper and lower heaters can be provided along with a zoned power supply for balancing of power input when ±0.5% uniformity is required.

The graphite hearth is capable of supporting the rated load at any temperature. A full workload is often less than the hearth rating, depending on material density and the spacing required between parts.



COMPLETE PROCESSING

Binder removal, pre-sintering, and sintering steps can all be done in the same furnace, eliminating the need for intermediate loading and unloading, and material transfer operations.

MINIMAL MAINTENANCE

Rugged graphite resistance heating elements and fibrous graphite insulation assure reliable operation with minimal downtime. Heat zones, pumping systems, and control cabinets are built for easy access and fast repairs when necessary.



Click photo
to view larger image.

[Home](#) | [Welcome](#) | [Company Profile](#)
[astroDivision](#) | [brewDivision](#) | [europeDivision](#) | [light alloyDivision](#)

[Products](#)

[Contact Us](#) | [Request Information](#) | [Employees](#)
[Press Releases](#) | [Search](#) | [Site Index](#)

Copyright ?1996-2000 Thermal Technology Inc.
Website Designed by [WebNet Express](#)
All Rights Reserved