

LUCIFER FURNACES



Manufacturer of Industrial Heat Treating Furnaces and Ovens

SERIES 8000 HS High Speed Steel Dual Chamber Furnaces



Dual chamber space saving furnaces for hardening and drawing high speed steels and ceramics. The upper chamber, rated for 2450°F, is equipped with silicon carbide heating elements controlled by an SCR power supply. The SCR proportions the lowest power input required for each application, limiting amperage for steady state control. Automatic compensation for changes in element resistance and workload combined with silicon carbide heating elements designed with a 200% aging factor result in excellent element life. This unique operating system saves money on initial purchase by eliminating the large expensive power transformer and oversized contactors. Operation is simplified without the manual adjustment required with tap switches.

The lower chamber is complete with wire wound heating elements, stainless steel liner and fan assembly to recirculate heat for uniform temperature. Available at operating temperatures of 800°F, 1200°F, 1400°F, and 1600°F.

All models are completely wired, test fired and shipped ready for connection to main power supply.

Standard Features

- Heavy gauge welded sheet metal single shell construction.
- Both chambers designed with same working dimensions.
- Silicon carbide heating elements mounted above and below hearth for uniform heat in upper chamber.
- SCR power supply.
- Multi-layered energy efficient lightweight ceramic fiber and mineral block insulation for maximum heat storage and minimum heat loss in the upper chamber.
- Coil wound heating elements mounted in easy-to-replace holders located on side walls of lower chamber.
- Silicon carbide hearth plate for load support and thermal transfer from floor elements in upper chamber.
- Double pivot horizontal swing upper chamber door and horizontal swing lower chamber door.
- Safety micro-switch shuts off power to elements and fan when door opens.
- Honeywell digital temperature controller with type R thermocouple on upper chamber.
- Controls are mounted in separate side mounted NEMA 1 panel and operate on 115 volts.

Model Specifications

MODEL	CHAMBER H" W" L"	OVERALL H" W" L"	KW	VOLTAGE	WEIGHT (LBS.)
HS8-K12	12 12 12	72 42 40	13.1	230/3/60	900
HS8-K18	12 12 18	72 42 46	17.2	230/3/60	1,000
HS8-K24	12 12 24	72 42 52	24	230/3/60	1,100
HS8-M18	12 18 18	72 48 46	25.6	230/3/60	1,225
HS8-M24	12 18 24	72 48 52	29.5	230/3/60	1,400
HS8-O24	18 18 24	78 48 52	41	230/3/60	1,700
HS8-O36	18 18 36	78 54 64	50	230/3/60	2,100
HS8-P36	18 24 36	78 54 64	60	230/3/60	2,500
HS8-R36	24 24 36	84 54 64	72	230/3/60	2,960

Options: Program controllers, over temperature safety systems, timers, recorders, quench tanks, alternate door arrangements, forced cooling systems, computer interface, special voltages, gloves, tongs and foil wrap.

2048 Bunnell Road - Warrington, PA 18976
Email: info@luciferfurnaces.com

Tel: 800-378-0095 Fax: 215-343-7388
www.luciferfurnaces.com