

LUCIFER FURNACES

Manufacturer of Industrial Heat Treating Furnaces and Ovens



Series HS3 - High Speed Steel Box Furnaces

OUTSTANDING VALUE FOR HIGH SPEED STEELS AND CERAMICS



Model HS3-M24 with optional fusible disconnect switch

HS3 Series Box Furnaces for hardening and pre-heating high speed steels and firing ceramics to 2450°F. Control package includes an SCR power supply, digital temperature controller and platinum thermocouple. The SCR proportions the lowest power input required for each application, limiting amperage. Combined with silicon carbide heating elements designed with a 200% aging factor, this unique operating system saves money by providing excellent element life. In addition, initial purchase costs are lowered by eliminating the large expensive power transformer and oversized contactors. Operation is simplified without the manual adjustment required with tap switches.

Designed with silicon carbide heating elements mounted above and below the hearth and low mass ceramic fiber insulation for fast uniform heat. This energy efficient furnace promotes reduced power demand, quicker recovery rates, and lower utility costs.

All models are completely wired, assembled, test fired and shipped ready for connection to 230 single or 3 phase voltage supply. Compact design, fast installation, and simple, safe, dependable operation. Available in five standard model sizes.

Standard Features

- Welded sheet metal shell construction with structural reinforcement.
- Silicon carbide elements mounted above and below the hearth to provide uniform temperature.
- SCR power supply.
- Multi-layered 6" of energy efficient ceramic fiber and mineral wool block insulation for maximum heat storage, minimum heat loss and lower utility costs.
- Silicon carbide hearth plates support the work load and readily transfer heat from the floor elements.
- Double-Pivot horizontal swing door keeps hot face surface away from operator.
- Safety micro-switch shuts off power to elements when door opens.
- Honeywell digital temperature controller with type R thermocouple.
- Controls mounted below furnace in enclosed cabinet and operate on 115 volts.

Model Specifications

MODEL	CHAMBER H" W" L"	OVERALL H" W" L"	KW	VOLTAGE	WEIGHT (LBS.)
HS3-K12	12 12 12	66 41 27	8.6	230/1	585
HS3-K18	12 12 18	66 41 33	11.8	230/1	670
HS3-K24	12 12 24	66 41 39	15.5	230/3	755
HS3-M18	12 18 18	66 47 33	16.6	230/3	770
HS3-M24	12 18 24	66 47 39	18.5	230/3	865

Options: Program controls, over temperature safety system, timers, recorders, quench tanks, computer interface, gloves, tongs and foil wrap.

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