

LUCIFER FURNACES



Manufacturer of Industrial Heat Treating Furnaces & Ovens

Series HS3 GT - High Speed Steel Inert Atmosphere GT Box Furnaces

OUTSTANDING VALUE FOR HIGH SPEED STEELS AND CERAMICS



Model HS3-K24

High performing furnaces for hardening and pre-heating high speed steels or firing ceramics under inert atmosphere to 2450°F. GT models are designed with a continuously welded furnace shell, gasketed door assembly, and atmosphere inlet and outlet ports for operation with a positive flow of atmosphere. These models are best suited for constant operation to maintain a dry refractory environment in the work area to minimize oxidation on workloads.

The control package includes an SCR power supply which 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 cost is lowered by eliminating the large expensive power transformer and oversized contactors. Operation is simplified without the manual adjustment of tap switches. Constructed with heating elements mounted above and below the hearth and lined with 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 to N.E.C., assembled, test fired and shipped ready for connection to 230 voltage and atmosphere supply. Compact design, fast installation, and simple, safe, dependable operation. Available in five standard models sizes.

Standard Features

- Continuously welded sheet metal shell construction with structural reinforcement.
- Silicon carbide elements mounted above and below the hearth for uniform heat.
- SCR power supply.
- Multi-layered 6" of energy efficient ceramic fiber and mineral wool block insulation for maximum heat storage and reduced heat loss .
- Heat-up rates to 2200°F in 55 minutes.
- Silicon carbide hearth plates support the work load and readily transfer the heat from the floor elements.
- Double-Pivot horizontal swing door with gasket seals against furnace faceplate.
- Safety micro-switch shuts off power to elements when door opens.
- Honeywell digital temperature controller with type R thermocouple.
- Controls are mounted below furnace in an enclosed cabinet and operate on 115 volts.

Model Specifications

MODEL	CHAMBER H" W" L"	OVERALL H" W" L"	KW	VOLTAGE	WEIGHT (LBS.)
HS3GT-K12	12 12 12	66 41 27	8.6	230/1	585
HS3GT-K18	12 12 18	66 41 33	11.8	230/1	670
HS3GT-K24	12 12 24	66 41 39	15.5	230/3	755
HS3GT-M18	12 18 18	66 47 33	16.6	230/3	770
HS3GT-M24	12 18 24	66 47 39	18.5	230/3	865

Options: Flow meters, regulators, oxygen analyzers, dew point indicators, program controllers, over temperature safety systems, timers, recorders, quench tanks, computer interface, gloves and tongs.



Model HS3GT-O24

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