

LUCIFER FURNACES

Manufacturer of Industrial Heat Treating Furnaces and Ovens



Series 5000 GT - Heavy Duty Inert Atmosphere GT Box Furnaces

Large box furnaces for hardening, drawing, preheating, annealing, brazing, normalizing and special applications under inert atmosphere to 2100°F. The 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 higher atmosphere rates. These models are best suited for constant operation to maintain a dry refractory environment in the work area to minimize oxidation on workloads. The GT system is a less expensive alternative compared to our atmosphere furnaces equipped with alloy muffles (AM Models).

Ruggedly constructed and rated for workloads up to 100 lbs. per square foot of hearth area. All models are completely wired to N.E.C., assembled, test fired and shipped ready for connection to main power and regulated atmosphere pressure of 5 PSI. Simple, safe, dependable operation and available in fourteen standard model sizes.

Standard Features

- Continuously welded angle iron frame construction with sheet steel and plate lining.
- Heavy gauge coil wound low watt density heating elements suitable for atmosphere for longer life.
- Heating elements located on sides, door, back and below the hearth provide uniform temperature.
- Multi-layered 7" of energy efficient firebrick, mineral wool block and ceramic fiber insulation for maximum heat storage, less heat loss and lower utility costs.
- Silicon carbide hearth plates form a rugged work surface for supporting load.
- Vertical lift air operated door with high temperature ceramic fiber gasket seals chamber and keeps hot face surface away from personnel.
- Safety micro-switch shuts off power to elements when door opens.
- Honeywell digital temperature controller with type K thermocouple and magnetic contactor.
- Controls are mounted in separate side mounted NEMA 1 panel and operate on 115 volts.
- Chambers 72" long designed for two zone control.

Model Specifications



MODEL	CHAMBER			OVERALL			KW	VOLTAGE	WEIGHT (LBS.)
	H"	W"	L"	H"	W"	L"			
5GT-S36	24	36	36	107	68	69	64	230/460/3	4390
5GT-S48	24	36	48	107	68	81	75	230/460/3	5160
5GT-S60	24	36	60	107	68	93	87	230/460/3	6090
5GT-S72	24	36	72	107	68	106	103	230/460/3	7020
5GT-V36	36	36	36	120	68	69	86	230/460/3	4940
5GT-V48	36	36	48	120	68	81	103	230/460/3	5830
5GT-V60	36	36	60	120	68	93	115	230/460/3	6840
5GT-V72	36	36	72	120	68	106	137	230/460/3	7870
5GT-VW48	36	48	48	120	80	81	121	230/460/3	5970
5GT-VW60	36	48	60	120	80	93	133	230/460/3	7370
5GT-VW72	36	48	72	120	80	106	146	230/460/3	8450
5GT-X48	48	48	48	134	80	81	139	230/460/3	6940
5GT-X60	48	48	60	134	80	93	153	230/460/3	8070
5GT-X72	48	48	72	134	80	106	171	230/460/3	9240

Options: Flow meters, regulators, oxygen analyzers, dew point indicators, program controllers, over temperature safety systems, timers, recorders, loading systems, fiber insulation, quench tanks, alternate door arrangements, forced cooling systems, computer interface, special voltages, gloves, tongs and foil wrap.