

LUCIFER FURNACES, INC.



Manufacturer of Industrial Heat Treating Furnaces and Ovens

Series 8000 GT - Inert Atmosphere GT Dual Chamber Furnaces



Model 82GT-M24 shown with optional double pivot upper chamber door

Unique "Space Saver" design offers the convenience and economy of two independently controlled chambers in one packaged assembly. The upper chamber (hardening) is designed for operation with inert protective atmosphere to 2100°F. This chamber is constructed with a continuously welded shell, gasketed door assembly, and 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 GT system is a less expensive atmosphere alternative compared to our furnaces equipped with alloy muffles (AM Models).

The lower chamber (tempering) is complete with a stainless steel liner and fan to recirculate heat for uniform temperature. Available in operating temperatures of 800°F(88), 1200°F(82), 1400°F(84), and 1600°F(86).

Ruggedly constructed and rated for work loads up to 50 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 supply. Compact design, fast installation, simple, safe, dependable operation, providing a complete heat treat station in one furnace. Available in over thirty standard models sizes.

Standard Features

- Continuously welded upper chamber sheet metal shell construction.
- Both chambers designed with same working dimensions.
- Heavy gauge coil wound low watt density heating elements suitable for atmosphere for longer life.
- Multi-layered energy efficient lightweight firebrick and mineral block insulation for maximum heat storage and minimum heat loss.
- Elements mounted in easy-to-replace holders located on side walls.
- Hearth plate for load support and floor brick protection in upper chamber.
- Manual vertical lift upper chamber door with high temperature ceramic fiber gasket with swing bolts and handles for tight seal.
- Safety micro-switch shuts off power to elements when door opens.
- Honeywell digital temperature controller with type K thermocouple and magnetic contactor on each chamber.
- Controls mounted in separate side mounted NEMA 1 panel and operate on 115 volts.

Notes: Quench tanks may be stored below furnaces with chamber heights through 12" high.
KW and Voltage based on 1200°F lower chambers.

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

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Model Specifications

MODEL	CHAMBER			OVERALL			KW	VOLTAGE	WEIGHT (LBS.)
	H"	W"	L"	H"	W"	L"			
8GT-A6	6	6	6	78	26	32	2.8	115/1	375
8GT-A9	6	6	9	78	26	36	3.5	115/1	450
8GT-A12	6	6	12	78	26	38	5.5	230/1	625
8GT-A18	6	6	18	78	26	44	6.25	230/1	700
8GT-B9	9	9	9	82	29	36	6.5	230/460/1	675
8GT-B12	9	9	12	82	29	38	8	230/460/1	725
8GT-B18	9	9	18	82	29	44	10.5	230/460/1	800
8GT-B24	9	9	24	82	29	50	13.5	230/460/1	900
8GT-H12	9	12	12	82	33	38	9.5	230/460/1	750
8GT-H18	9	12	18	82	33	44	13.5	230/460/1	850
8GT-H24	9	12	24	82	33	50	16	230/460/1	950
8GT-H36	9	12	36	82	33	62	22.5	230/460/3	1050
8GT-K12	12	12	12	90	33	38	11	230/460/1	900
8GT-K18	12	12	18	90	33	44	16	230/460/3	1000
8GT-K24	12	12	24	90	33	50	21.5	230/460/3	1100
8GT-K36	12	12	36	90	33	62	26	230/460/3	1200
8GT-M18	12	18	18	90	39	44	23	230/460/3	1100
8GT-M24	12	18	24	90	39	50	26	230/460/3	1400
8GT-M36	12	18	36	90	39	62	31	230/460/3	1600
8GT-M48	12	18	48	90	39	74	37	230/460/3	1850
8GT-O18	18	18	18	96	39	44	27	230/460/3	1400
8GT-O24	18	18	24	96	39	50	33	230/460/3	1800
8GT-O36	18	18	36	96	39	62	41	230/460/3	2300
8GT-O48	18	18	48	96	39	74	50	230/460/3	2600
8GT-P18	18	24	18	102	48	48	33	230/460/3	2000
8GT-P24	18	24	24	102	48	53	37	230/460/3	2300
8GT-P36	18	24	36	102	48	65	50	230/460/3	2850
8GT-P48	18	24	48	102	48	77	60	230/460/3	3200
8GT-R24	24	24	24	114	48	53	45	230/460/3	2600
8GT-R36	24	24	36	114	48	65	65	230/460/3	3000
8GT-R48	24	24	48	114	48	77	80	230/460/3	3500

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