

LUCIFER FURNACES, INC.

Manufacturers of Industrial Heat Treating Furnaces & Ovens



Series 8000 LI - Fiber Lined Dual Chamber Furnaces



Unique "Space Saver" design offers convenience and economy of two independently controlled chambers in one packaged assembly. The upper chamber (hardening) is designed with lightweight ceramic fiber insulation for energy saving low power input and maximum heating efficiency for operation to 2200°F. Upper chamber coil wound heating elements are fully supported on ceramic rods for rapid radiation with faster heat up rates. This unique design provides easy element access and low cost, individual replacement of the wires. The lower chamber (tempering) is complete with a stainless steel liner and fan to re-circulate the heat for uniform temperature. Available at operating temperatures of 800°F(88), 1200°F(82), 1400°F(84), and 1600°F(86). Ideal for Tool Rooms and Schools, providing a complete heat treat station in one furnace.



Ruggedly constructed and rated for work loads up to 40 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, and simple, safe, dependable operation.

Standard Features

- Welded sheet metal single shell construction.
- Both chambers designed with same working dimensions.
- Heavy gauge coil wound low watt density heating elements for longer life.
- Multi-layered energy efficient lightweight ceramic fiber insulation in upper chamber and firebrick in lower oven for maximum heat storage and minimum heat loss.
- Lower chamber elements mounted in easy-to-replace holders located on side walls.
- Hearth plate for load support and floor brick protection in upper chamber.
- Horizontal swing doors on both chambers.
- Safety micro-switch shuts off power to elements and fan when door opens.
- Honeywell digital temperature controller with type K thermocouple and magnetic contactor on each chamber.
- Controls are mounted in separate side mounted NEMA 1 panel and operate on 115 volts.

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

tel: 800-378-0095
www.luciferfurnaces.com

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Model Specifications

MODEL	CHAMBER			OVERALL			KW	VOLTAGE	WEIGHT (LBS.)
	H"	W"	L"	H"	W"	L"			
LI8-A6	6	6	6	52	24	32	2.25	230/1	280
LI8-A9	6	6	9	52	24	36	3	230/1	320
LI8-A12	6	6	12	52	24	38	4.5	230/1	450
LI8-A18	6	6	18	52	24	44	5.5	230/1	570
LI8-B9	9	9	9	52	27	36	5.5	230/1	540
LI8-B12	9	9	12	52	27	38	6.5	230/1	600
LI8-B18	9	9	18	52	27	44	8.5	230/1	650
LI8-B24	9	9	24	52	27	50	11	230/1	730
LI8-H12	9	12	12	52	31	38	7.5	230/1	615
LI8-H18	9	12	18	52	31	44	11	230/1	700
LI8-H24	9	12	24	52	31	50	13	230/1	770
LI8-H36	9	12	36	52	31	62	18	230/460/3	800
LI8-K12	12	12	12	60	31	38	9	230/1	720
LI8-K18	12	12	18	60	31	44	13	230/460/1	800
LI8-K24	12	12	24	60	31	50	17.5	230/460/1	870
LI8-K36	12	12	36	60	31	62	21	230/460/3	920
LI8-M18	12	18	18	60	37	44	19.5	230/460/1	850
LI8-M24	12	18	24	60	37	50	23	230/460/3	1075
LI8-M36	12	18	36	60	37	62	25	230/460/3	1225

KW and Voltage based on 1200°F lower chambers.

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.

Note: Quench tanks may be stored below furnaces with chamber heights through 12" high.

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