LUCIFER FURNACES, INC.

Manufacturer of Industrial Heat Treating Furnaces and Ovens

SERIES 8300 - High Temperature 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 equipped with silicon carbide heating elements for operation to 2500°F. The elements are mounted above and below the hearth and fire through an eight step voltage regulating transformer with selector switches to provide maximum element life. The lower chamber (Tempering) is complete with coil wound heating elements, stainless steel liner, and fan to recirculate heat for uniform temperature. Available at 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, test fired and shipped ready for connection to main power supply. Available in over twenty standard model sizes.

Standard Features

- Heavy gauge welded sheet metal single shell construction.
- Both chambers designed with same working dimensions.
- Silicon carbide heating elements mounted above & below hearth for uniform heat in upper chamber.
- Multi-layered energy efficient lightweight firebrick & mineral block insulation for maximum heat storage with minimum heat loss.
- Silicon carbide hearth plate for load support and thermal transfer from floor elements in upper chamber.
- Coil wound heating elements mounted in easy-to-replace holders located on side walls of lower chamber.
- Manual vertical lift upper chamber door and horizontal swing lower chamber door.
- 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 and power components mounted in a separate free standing NEMA 1 panel.

KW and Voltage characteristics based on 1200°F lower chambers. **Note:** Quench tanks may be stored below furnaces with chamber heights up to 9” high.

Model Specifications

MODEL	CHAMBER			OVERALL			KW	VOLTAGE	WEIGHT
	H"	W"	L"	H"	W"	L"			(LBS.)
83-A6	6	6	6	80	32	39	3.5	230/460/1	875
83-A9	6	6	9	80	32	39	4.5	230/460/1	1000
83-A12	6	6	12	80	32	42	6.5	230/460/1	1100
83-A18	6	6	18	80	32	48	8.75	230/460/1	1225
83-B9	9	9	9	90	36	39	8.5	230/460/1	1200
83-B12	9	9	12	90	36	42	10.5	230/460/1	1600
83-B18	9	9	18	90	36	48	14	230/460/1	2000
83-B24	9	9	24	90	36	54	17	230/460/1	2400
83-H12	9	12	12	90	40	42	12.5	230/460/1	1700
83-H18	9	12	18	90	40	48	17	230/460/1	1900
83-H24	9	12	24	90	40	54	21	230/460/3	2300
83-H36	9	12	36	90	40	64	28.5	230/460/3	2600
83-K12	12	12	12	100	40	42	15.5	230/460/3	1800
83-K18	12	12	18	100	40	48	20	230/460/3	2100
83-K24	12	12	24	100	40	54	25.5	230/460/3	2500
83-K36	12	12	36	100	40	64	35	230/460/3	2900
83-M18	12	18	18	100	48	48	27	230/460/3	2300
83-M24	12	18	24	100	48	54	33	230/460/3	2800
83-M36	12	18	36	100	48	64	43	230/460/3	3300
83-M48	12	18	48	100	48	78	52	230/460/3	3900
83-O18	18	18	18	112	48	48	35	230/460/3	3200
83-O24	18	18	24	112	48	54	41	230/460/3	3600
83-O36	18	18	36	112	48	64	53	230/460/3	4200
83-O48	18	18	48	112	48	78	64	230/460/3	4800

Options: Program controls, over temperature safety systems, timers, recorders, quench tanks, alternate door arrangements, forced cooling systems, computer interface, special voltages, gloves, tongs and foil wrap.

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