

LUCIFER FURNACES, INC.

Manufacturer of Industrial Heat Treating Furnaces and Ovens



Series 7000 LI - Fiber Lined Box Furnaces



Shown with optional
gas spring door

Bench and floor models designed with lightweight ceramic fiber insulation for energy saving low power input and maximum heating efficiency for operation to 2200°F. Coil wound heating elements 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. For hardening, drawing, preheating, annealing, brazing, normalizing and special applications in air atmosphere.

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 shell construction with structural reinforcement.
- Heavy gauge, coil wound, low watt density heating elements for longer life.
- Multi-layered, energy efficient, lightweight ceramic fiber and mineral wool block insulation for maximum heat storage and minimum heat loss.
- Elements mounted individually on ceramic rods located on side walls for uniform temperature.
- Heat up rate to 2000°F in 45 minutes.
- Easy, low cost element replacement.
- Hearth plate for load support and floor insulation protection.
- Horizontal swing door with adjustable latch for positive seal.
- 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.

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Model Specifications

| MODEL | CHAMBER | | | OVERALL | | | KW | VOLTAGE | WEIGHT (LBS.) |
|--------------|---------|----|----|---------|----|----|------|-----------|------------------|
| | H" | W" | L" | H" | W" | L" | | | |
| Bench Models | | | | | | | | | |
| LI7-A6 | 6 | 6 | 6 | 24 | 20 | 26 | 1.5 | 115/1 | 110 |
| LI7-A9 | 6 | 6 | 9 | 24 | 20 | 26 | 1.8 | 115/1 | 125 |
| LI7-A12 | 6 | 6 | 12 | 24 | 20 | 29 | 2.8 | 230/1 | 145 |
| LI7-A18 | 6 | 6 | 18 | 24 | 20 | 35 | 3.2 | 230/1 | 185 |
| LI7-B9 | 9 | 9 | 9 | 27 | 23 | 29 | 3.2 | 230/460/1 | 165 |
| LI7-B12 | 9 | 9 | 12 | 27 | 23 | 29 | 4 | 230/460/1 | 190 |
| LI7-B18 | 9 | 9 | 18 | 27 | 23 | 35 | 5 | 230/460/1 | 245 |
| LI7-B24 | 9 | 9 | 24 | 27 | 23 | 41 | 6.8 | 230/460/1 | 295 |
| LI7-H12 | 9 | 12 | 12 | 27 | 26 | 29 | 4.8 | 230/460/1 | 248 |
| LI7-H18 | 9 | 12 | 18 | 27 | 26 | 35 | 6.8 | 230/460/1 | 305 |
| LI7-H24 | 9 | 12 | 24 | 27 | 26 | 41 | 8 | 230/460/1 | 370 |
| LI7-H36 | 9 | 12 | 36 | 27 | 26 | 53 | 11 | 230/460/3 | 505 |
| LI7-K12 | 12 | 12 | 12 | 31 | 26 | 29 | 5 | 230/460/1 | 275 |
| LI7-K18 | 12 | 12 | 18 | 31 | 26 | 35 | 8.5 | 230/460/1 | 350 |
| LI7-K24 | 12 | 12 | 24 | 31 | 26 | 41 | 10.5 | 230/460/3 | 430 |
| LI7-K36 | 12 | 12 | 36 | 31 | 26 | 53 | 12 | 230/460/3 | 570 |
| Floor Models | | | | | | | | | |
| LI7-M18 | 12 | 18 | 18 | 54 | 38 | 35 | 11 | 230/460/3 | 455 |
| LI7-M24 | 12 | 18 | 24 | 54 | 38 | 41 | 12 | 230/460/3 | 550 |
| LI7-M36 | 12 | 18 | 36 | 54 | 38 | 53 | 14 | 230/460/3 | 730 |

Options: Floor stands (add 23" to overall H dimension and 10" to W dimension), 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.