

# LUCIFER FURNACES

Manufacturer of Industrial Heat Treating Furnaces and Ovens



## Series 4099 - Heavy Duty Recirculating Ovens



Shown with optional horizontal swing door

Large high velocity air recirculating ovens offering a wide temperature operating range from 200°F to 1400°F. Precision control of air temperature for tempering, drawing, annealing, preheating and stress relieving steel, aluminum, glass, and ceramics.

All models are equipped with a roof mounted alloy fan assembly and stainless steel liner providing a vertical air flow pattern and uniform temperature throughout the chamber. The liner directs the air flow and baffles the heating elements from the work area. The chambers are brick lined with removable hearth plates supporting work loads up to 75 lbs/sq ft. Wire-on-rod heating element design allows full thermal emission from the coils and easy individual element replacement at a low cost.

All models are completely wired to N.E.C., assembled, test fired and shipped ready for connection to main power supply. Available in fifteen standard model sizes.

### Standard Features

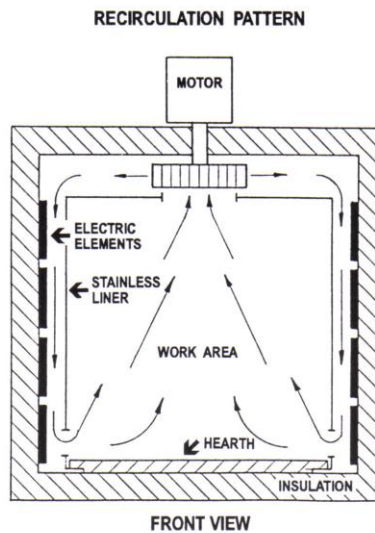
- Welded angle iron frame construction with sheet steel and plate lining.
- Heavy gauge coil wound low watt density heating elements for longer life.
- Multi-layered energy efficient lightweight firebrick and mineral block insulation for maximum heat storage and minimum heat loss.
- Elements mounted individually on ceramic rods located on side walls for uniform temperature.
- Stainless steel fan with motor and belt drive mounted through roof.
- Stainless steel liner forms work area and directs air flow.
- Hearth plates for load support and floor brick protection.
- Vertical lift manual hand crank operated door keeps hot face surface away from personnel.
- Safety micro-switch shuts off power to elements and fan 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"			
V4099-W42	42	42	42	142	73	66	62	230/460/3	3800
V4099-W48	42	42	48	142	73	72	69	230/460/3	4000
V4099-W54	42	42	54	142	73	78	74	230/460/3	4200
V4099-W60	42	42	60	142	73	84	80	230/460/3	4400
V4099-W72	42	42	72	142	73	96	91	230/460/3	4800
V4099-X48	48	48	48	152	79	72	74	230/460/3	4500
V4099-X54	48	48	54	152	79	78	80	230/460/3	4700
V4099-X60	48	48	60	152	79	84	86	230/460/3	4900
V4099-X72	48	48	72	152	79	96	99	230/460/3	5300
V4099-Y48	54	54	48	162	85	72	85	230/460/3	5000
V4099-Y54	54	54	54	162	85	78	92	230/460/3	5200
V4099-Y60	54	54	60	162	85	84	99	230/460/3	5400
V4099-Y72	54	54	72	162	85	96	113	230/460/3	5800

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