

LUCIFER FURNACES



Manufacturer of Industrial Heat Treating Furnaces and Ovens

Series 4000 - General Purpose Recirculating Ovens

General purpose recirculating ovens for tempering, drawing, annealing and preheating steel, aluminum, glass and ceramics in air atmosphere. Available at operating temperatures of 1200°F(42), 1400°F(44), 1600°F(46) and 1800°F(49).

All models are equipped with an alloy fan assembly and stainless steel liner providing a horizontal 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 4055 Models are heavier duty units featuring 50 lbs./sq. ft. loading capacity, 6.5" of insulation on the walls, hard brick work surface, belt driven fan, and controls located in a side mounted control panel.

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. Available in over thirty standard sizes.

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 firebrick and mineral block insulation for maximum heat storage and minimum heat loss.
- Elements mounted in easy-to-replace holders located on side walls for uniform temperature.
- Stainless steel fan with motor and belt drive.
- Stainless steel liner forms work area and directs air flow.
- Hearth plate for load support and floor brick protection on Series 4055 models.
- Horizontal swing door with adjustable latch for positive seal.
- 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 operate on 115 volts mounted in front base on Series 42 models, and side mounted in a separate NEMA 1 panel on Series 4055 models.



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42 Model Specifications

MODEL	CHAMBER			OVERALL			KW	VOLTAGE	WEIGHT (LBS.)
	H"	W"	L"	H"	W"	L"			
42-B12	9	9	12	56	22	36	3	230/460/1	355
42-B18	9	9	18	56	22	42	4	230/460/1	465
42-B24	9	9	24	56	22	48	5	230/460/1	495
42-H18	9	12	18	56	22	48	5	230/460/1	570
42-H24	9	12	24	56	25	48	6	230/460/1	645
42-H36	9	12	36	56	25	60	8.5	230/460/3	785
42-K12	12	12	12	56	25	36	4.5	230/460/1	490
42-K18	12	12	18	56	25	48	6	230/460/1	620
42-K24	12	12	24	56	25	48	8.5	230/460/3	710
42-K36	12	12	36	56	25	60	11	230/460/3	860
42-M18	12	18	18	56	32	48	9	230/460/3	730
42-M24	12	18	24	56	32	48	11	230/460/3	750
42-M36	12	18	36	56	32	60	13	230/460/3	915
42-M48	12	18	48	56	32	72	14	230/460/3	1130
42-O18	18	18	18	62	32	48	12	230/460/3	735
42-O24	18	18	24	62	32	53	13	230/460/3	840
42-O36	18	18	36	62	32	65	16	230/460/3	1050
42-P18	18	24	18	62	39	48	13	230/460/3	1195
42-P24	18	24	24	62	39	53	14	230/460/3	1300

4055 Model Specifications

MODEL	CHAMBER			OVERALL			KW	VOLTAGE	WEIGHT (LBS.)
	H"	W"	L"	H"	W"	L"			
42-O48	18	18	48	62	32	72	18	230/460/3	1115
42-P36	18	24	36	62	39	65	17	230/460/3	1450
42-P48	18	24	48	62	39	77	20	230/460/3	1800
42-R24	24	24	24	62	39	53	15	230/460/3	1600
42-R36	24	24	36	62	39	65	20	230/460/3	1900
42-R48	24	24	48	62	39	77	28	230/460/3	2300
42-S36	24	36	36	62	51	53	35	230/460/3	2200
42-S48	24	36	48	62	51	65	38	230/460/3	2700
42-T30	30	30	30	68	45	59	30	230/460/3	2400
42-T36	30	30	36	68	45	65	35	230/460/3	2600
42-T48	30	30	48	68	45	77	40	230/460/3	3000
42-V36	36	36	36	68	51	65	42	230/460/3	3200
42-V48	36	36	48	68	51	77	46	230/460/3	3600
42-V60	36	36	60	68	51	88	50	230/460/3	4000
42-V72	36	36	72	68	51	99	54	230/460/3	4400

Options: Program controllers, over temperature safety systems, timers, recorders, quench tanks, forced cooling systems, SCR power supplies, ceramic fiber insulation, alternate door arrangements, special voltages, gloves, tongs, and foil wrap.

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