

# LUCIFER FURNACES



Manufacturer of Industrial Heat Treating Furnaces and Ovens

## Series 4000 GT - Inert Atmosphere GT Ovens

Recirculating ovens for tempering, drawing, annealing and preheating steel, aluminum, glass and ceramics under inert atmosphere. Available at operating temperatures of 1200°F(42), 1400°F(44), 1600°F(46) and 1800°F(49). The GT models are designed with a continuously welded furnace shell, gasketed door assembly and atmosphere inlet and outlet ports for operation with a positive flow of higher atmosphere rates. These models are best suited for constant operation to maintain a dry refractory environment in the work area to minimize oxidation on workloads. The GT system is a less expensive alternative compared to our atmosphere furnaces equipped with alloy muffles (AM Models).

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 separate side mounted control panel.

All models are completely wired to N.E.C., assembled, test fired and shipped ready for connection to main power and regulated atmosphere pressure of 5 PSI. Compact design, fast installation, and simple, safe, dependable operation. Available in over thirty standard models sizes.

### Standard Features

- Continuously 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 atmosphere seal, motor and belt drive.
- Stainless steel liner which forms work area and directs air flow.
- Hearth plate for load support and floor brick protection on Series 4055 models.
- Double-pivot horizontal swing door with high temperature ceramic fiber gasket, swing bolts and handles for tight 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 and mounted in front base on Series 42 models, and side mounted in a separate NEMA 1 panel on Series 4055 models.



46GT-O18



44GT-T30

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## 42 Model Specifications

MODEL	CHAMBER			OVERALL			KW	VOLTAGE	WEIGHT (LBS.)
	H"	W"	L"	H"	W"	L"			
42GT-B12	9	9	12	56	22	36	3	230/460/1	355
42GT-B18	9	9	18	56	22	42	4	230/460/1	465
42GT-B24	9	9	24	56	22	48	5	230/460/1	495
42GT-H18	9	12	18	56	22	48	5	230/460/1	570
42GT-H24	9	12	24	56	25	48	6	230/460/1	645
42GT-H36	9	12	36	56	25	60	8.5	230/460/3	785
42GT-K12	12	12	12	56	25	36	4.5	230/460/1	490
42GT-K18	12	12	18	56	25	48	6	230/460/1	620
42GT-K24	12	12	24	56	25	48	8.5	230/460/3	710
42GT-K36	12	12	36	56	25	60	11	230/460/3	860
42GT-M24	12	18	24	56	32	48	11	230/460/3	750
42GT-M36	12	18	36	56	32	60	13	230/460/3	915
42GT-M48	12	18	48	56	32	72	14	230/460/3	1130
42GT-O18	18	18	18	62	32	48	12	230/460/3	735
42GT-O24	18	18	24	62	32	53	13	230/460/3	840
42GT-O36	18	18	26	62	32	65	16	230/460/3	1050
42GT-P18	18	24	18	62	39	48	13	230/460/3	1195
42GT-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"			
42GT-O48	18	18	48	62	32	72	18	230/460/3	1115
42GT-P36	18	24	36	62	39	65	17	230/460/3	1450
42GT-P48	18	24	48	62	39	77	20	230/460/3	1800
42GT-R24	24	24	24	62	39	53	15	230/460/3	1600
42GT-R36	24	24	36	62	39	65	20	230/460/3	1900
42GT-R48	24	24	48	62	39	77	28	230/460/3	2300
42GT-S36	24	36	36	62	51	53	35	230/460/3	2200
42GT-S48	24	36	48	62	51	65	38	230/460/3	2700
42GT-T30	30	30	30	68	45	59	30	230/460/3	2400
42GT-T36	30	30	36	68	45	65	35	230/460/3	2600
42GT-T48	30	30	48	68	45	77	40	230/460/3	3000
42GT-V36	36	36	36	68	51	65	42	230/460/3	3200
42GT-V48	36	36	48	68	51	77	46	230/460/3	3600
42GT-V60	36	36	60	68	51	88	50	230/460/3	4000
42GT-V72	36	36	72	68	51	99	54	230/460/3	4400

**Options:** Flow meters, regulators, oxygen analyzers, dew point indicators, program controllers, over temperature safety systems, timers, recorders, loading systems, fiber insulation, quench tanks, alternate door arrangements, forced cooling systems, computer interface, special voltages, gloves, tongs and foil wrap.

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

Tel: 800-378-0095

Fax: 215-343-7388

www.luciferfurnaces.com