

LUCIFER FURNACES



Manufacturer of Industrial Heat Treating Furnaces and Ovens

Series 3029 GT-Heavy Duty High Temperature Inert Atmosphere GT Box Furnaces

Large high temperature heavy duty furnaces designed with silicon carbide heating elements for operation with inert protective atmosphere to 2500°F(BB) or 2750°F(CL). Ideal for processing high speed steels, special alloys and ceramic applications. 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 atmosphere. These models are best suited for constant operation to maintain a dry refractory environment in the work area to minimize oxidation on workloads. Chambers are ruggedly constructed and lined with firebrick insulation with silicon carbide heating elements mounted above and below hearth for uniform heat. Complete with step down transformer and selector switches for regulating the voltage to the heating elements providing longer life. All models are completely wired, assembled, test fired and shipped ready for connection to main power and regulated atmosphere supply of 5 PSI. Available in twelve standard models sizes.



Standard Features

- Continuously welded sheet metal shell construction with structural reinforcement.
- Silicon carbide elements mounted above and below the hearth.
- Tapped power transformer and selector switches for a 70% element resistance increase.
- Multi-layered 9" of firebrick and mineral wool insulation.
- Silicon carbide hearth plates support work load and transfer heat from the floor elements.
- Manual vertical lift door with gasket seals against furnace faceplate.
- Safety micro-switch shuts off power to elements when door opens.
- Honeywell digital temperature controller with type R thermocouple.
- Controls mounted in freestanding NEMA 1 panel.

Model Specifications

MODEL	CHAMBER			OVERALL			KW 2500°F	KW 2750°F	VOLTAGE
	H"	W"	L"	H"	W"	L"			
3029-O24	18	18	24	120	50	48	39	45	230/3
3029-O36	18	18	36	120	50	60	51	60	230/3
3029-P24	18	24	24	120	57	48	45	51	230/3
3029-P36	18	24	36	120	57	60	60	69	230/3
3029-R24	24	24	24	120	57	48	48	60	230/3
3029-R36	24	24	36	120	57	60	66	78	230/3
3029-R48	24	24	48	120	57	72	81	96	230/3
3029-S36	24	36	36	120	69	60	84	99	230/3
3029-S48	24	36	48	120	69	72	105	120	230/3
3029-V36	36	36	36	134	69	60	99	114	230/3
3029-V48	36	36	48	134	69	72	123	144	230/3
3029-V60	36	36	60	134	69	84	144	171	230/3

Note: maximum temperature will vary depending on type of atmosphere.

Options: Flow meters, regulators, oxygen analyzers, dew point indicators, program controllers, over temperature safety systems, timers, recorders, quench tanks, computer interface, gloves, and tongs.