

# LUCIFER FURNACES

Manufacturer of Industrial Heat Treating Furnaces and Ovens



## Series 5000 AM - Heavy Duty Alloy Muffle Box Furnaces



Shown with optional vertical lift door

Large atmosphere models equipped with an alloy muffle for operation with a positive flow of protective atmosphere to 2050°F. The alloy muffle separates the chamber refractory and heating elements from the workload and atmosphere to minimize scale and oxidation on most tool steels. This design achieves lower dew points in the work chamber, reduces atmosphere consumption and shortens purge time. The AM models are ideal for cyclical or production type applications.

Ruggedly constructed and rated for work loads up to 50 lbs. per square foot of hearth area. All models are completely wired to N.E.C., test fired and shipped ready for connection to main power and regulated atmosphere pressure of 5 PSI. Simple, safe and dependable operation. Available in over 20 standard sizes. All models will operate with inert atmosphere. Flammable atmosphere may be used with the addition of Atmosphere Safety System per NFPA Code 86 C.

### 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.
- High grade alloy corrugated muffle super hearth, inlet pipe and front flange.
- 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, and below the hearth for uniform temperature.
- Silicon carbide hearth plate for full muffle support and thermal transfer from floor elements.
- Double-pivot horizontal swing plug door with high temperature ceramic fiber gasket, swing bolts and handles for sealing against muffle flange.
- Honeywell digital temperature controller with type K thermocouple and contactor.
- Controls are mounted in separate side mounted NEMA 1 panel and operate on 115 volts.

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## 5055 AM Model Specifications

MODEL	CHAMBER			OVERALL			KW	VOLTAGE	WEIGHT (LBS.)
	H"	W"	L"	H"	W"	L"			
55AM-81218	8	12	18	60	46	52	10	230/460/3	1000
55AM-81224	8	12	24	60	46	58	13	230/460/3	1300
55AM-81236	8	12	36	60	46	70	16	230/460/3	1900
55AM-101518	10	15	18	62	49	52	14	230/460/3	1600
55AM-101524	10	15	24	62	49	58	16	230/460/3	2000
55AM-101536	10	15	36	62	49	70	19	230/460/3	3000
55AM-121212	12	12	12	64	46	46	10	230/460/3	1000
55AM-121218	12	12	18	64	46	52	14	230/460/3	1500
55AM-121224	12	12	24	64	46	58	16	230/460/3	1900
55AM-121236	12	12	36	64	46	70	18	230/460/3	2900

All 5055 AM Models are equipped with square corrugated muffles

## 5052 AM Model Specifications

MODEL	CHAMBER			OVERALL			KW	VOLTAGE	WEIGHT (LBS.)
	H"	W"	L"	H"	W"	L"			
52AM-121824	12	18	24	66	52	58	18	230/460/3	2900
52AM-121836	12	18	36	66	52	70	26	230/460/3	4300
52AM-151524	15	15	24	70	49	58	19	230/460/3	3000
52AM-151530	15	15	30	70	49	64	24	230/460/3	3600
52AM-151536	15	15	36	70	49	70	27	230/460/3	4500
52AM-181818	18	18	18	74	52	52	20	230/460/3	3300
52AM-181824	18	18	24	74	52	58	26	230/460/3	4300
52AM-181836	18	18	36	74	52	70	30	230/460/3	6500
52AM-182424	18	24	24	74	58	58	32	230/460/3	5760
52AM-182436	18	24	36	74	58	70	42	230/460/3	7775
52AM-242424	24	24	24	80	58	58	36	230/460/3	6910
52AM-242436	24	24	36	80	58	70	48	230/460/3	8290

All 5052 AM Models are equipped with dome corrugated muffles

**OPTIONS:** Flow meters, regulators, oxygen analyzers, dew point indicators, muffle thermocouples, cascade and multi-zone control systems, supervised flame curtains, supervised burn-off systems, program controllers, over temperature safety systems, cooling systems, timers, recorders, quench tanks, alternate door arrangements, computer interface, special voltages, gloves, and tongs.

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