

LUCIFER FURNACES

Manufacturer of Industrial Heat Treating Furnaces and Ovens



Series 5000 RAM - Heavy Duty Removable Alloy Muffle Furnaces



Large box furnaces offering the flexibility of heat treating and rapid cooling under protective atmosphere in an alloy muffle with a maximum operating temperature of 2050°F. The muffle is mounted on a portable cart assembly which can be transferred in and out of the furnace chamber. A manual vertical lift door mounted on the furnace seals the chamber when the muffle is removed. The holding door maintains the chamber temperature, saves energy and enhances furnace production capability for fast turnaround of the next muffle. The muffle separates the furnace insulation 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. A clad plug type door with gasket seals against the muffle.

All models are completely wired, test fired and shipped ready for connection to main power and regulated atmosphere pressure of 5 PSI. 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 element.
- Plug door with high temperature ceramic fiber gasket, swing bolts and handles for sealing against muffle flange.
- Workload capacity up to 35 lbs. per square foot of hearth area.
- 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 RAM Model Specifications

MODEL	CHAMBER			OVERALL			KW	VOLTAGE	WEIGHT (LBS.)
	H"	W"	L"	H"	W"	L"			
55RAM-81218	8	12	18	100	46	62	10	230/460/3	1350
55RAM-81224	8	12	24	100	46	68	13	230/460/3	1655
55RAM-81236	8	12	36	100	46	80	16	230/460/3	2270
55RAM-101518	10	15	18	102	49	62	14	230/460/3	1990
55RAM-101524	10	15	24	102	49	68	16	230/460/3	2395
55RAM-101536	10	15	36	102	49	80	19	230/460/3	3410
55RAM-121212	12	12	12	104	46	56	10	230/460/3	1380
55RAM-121218	12	12	18	104	46	62	14	230/460/3	1890
55RAM-121224	12	12	24	104	46	68	16	230/460/3	2295
55RAM-121236	12	12	36	104	46	80	18	230/460/3	3210

These RAM Models have a square corrugated muffle and double pivot door mounted on the cart

5052 RAM Model Specifications

MODEL	CHAMBER			OVERALL			KW	VOLTAGE	WEIGHT (LBS.)
	H"	W"	L"	H"	W"	L"			
52RAM-121824	12	18	24	104	52	70	18	230/460/3	3520
52RAM-121836	12	18	36	104	52	82	26	230/460/3	4940
52RAM-151524	15	15	24	110	49	70	19	230/460/3	3670
52RAM-151530	15	15	30	110	49	76	24	230/460/3	4280
52RAM-151536	15	15	36	110	49	82	27	230/460/3	5190
52RAM-181818	18	18	18	114	52	64	20	230/460/3	4090
52RAM-181824	18	18	24	114	52	70	26	230/460/3	5090
52RAM-181836	18	18	36	114	52	82	30	230/460/3	7310

These RAM Models have a dome corrugated muffle and plug door mounted on a separate portable cart

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.

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

Tel: 800-378-0095 Fax: 215-343-7388
www.luciferfurnaces.com