

5000AM SERIES HEAVY DUTY MUFFLED ATMOSPHERE FURNACE



HEAVY DUTY, ALLOY MUFFLE BOX FURNACE

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, 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.
- Eurotherm digital temperature controller with type K thermocouple and contactor.
- Controls are mounted in separate side mounted NEMA 1 panel and operate on 115 volts.

5052 AM MODEL SPECIFICATIONS

Model	Chamber Dimensions	Overall Dimensions	KW	Voltage	Weight (lbs)
52AM-M24	12"H X 18"W X 24"D	66"H X 52"W X 58"D	18	230/460/3	2900
52AM-M36	12"H X 18"W X 36"D	66"H X 52"W X 70"D	26	230/460/3	4300
52AM-N24	15"H X 15"W X 24"D	70"H X 49"W X 58"D	19	230/460/3	3000
52AM-N36	15"H X 15"W X 36"D	70"H X 49"W X 70"D	27	230/460/3	4500
52AM-O18	18"H X 18"W X 18"D	74"H X 52"W X 52"D	20	230/460/3	3300
52AM-O24	18"H X 18"W X 24"D	74"H X 52"W X 58"D	26	230/460/3	4300
52AM-O36	18"H X 18"W X 36"D	74"H X 52"W X 70"D	30	230/460/3	6500
52AM-P24	18"H X 24"W X 24"D	74"H X 58"W X 58"D	32	230/460/3	5760
52AM-P36	18"H X 24"W X 36"D	74"H X 58"W X 70"D	42	230/460/3	7775
52AM-R24	24"H X 24"W X 24"D	80"H X 58"W X 58"D	36	230/460/3	6910
52AM-R36	24"H X 24"W X 36"D	80"H X 58"W X 70"D	48	230/460/3	8290
52AM-L24	12"H X 15"W X 24"D	64"H X 46"W X 58"D	16	230/460/3	1900
52AM-L36	12"H X 15"W X 36"D	64"H X 46"W X 70"D	22	230/460/3	2900

5055 AM MODEL SPECIFICATIONS

Model	Chamber Dimensions	Overall Dimensions	KW	Voltage	Weight (lbs)
55AM-G18	8"H X 12"W X 18"D	60"H X 46"W X 52"D	10	230/460/3	1000
55AM-G24	8"H X 12"W X 24"D	60"H X 46"W X 58"D	13	230/460/3	1300
55AM-G36	8"H X 12"W X 36"D	60"H X 46"W X 70"D	15	230/460/3	1900
55AM-J18	10"H X 15"W X 18"D	62"H X 49"W X 52"D	14	230/460/3	1600
55AM-J24	10"H X 15"W X 24"D	62"H X 49"W X 58"D	16	230/460/3	2000
55AM-J36	10"H X 15"W X 36"D	62"H X 49"W X 70"D	19	230/460/3	3000
55AM-K12	12"H X 12"W X 12"D	64"H X 46"W X 46"D	10	230/460/3	1000
55AM-K18	12"H X 12"W X 18"D	64"H X 46"W X 52"D	14	230/460/3	1500
55AM-K24	12"H X 12"W X 24"D	64"H X 46"W X 58"D	16	230/460/3	1900
55AM-K36	12"H X 12"W X 36"D	64"H X 46"W X 70"D	18	230/460/3	2900