

8000 ALLOY MUFFLE DUAL CHAMBER FURNACES



INTER ATMOSPHERE AM DUAL CHAMBER

Unique "Space Saver" design offers the convenience and economy of two independently controlled chambers in one packaged assembly. The upper chamber (Hardening) is equipped with an alloy muffle for operation with a positive flow of 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. The lower chamber (Tempering) is complete with a stainless steel liner and fan to recirculate the heat for uniform temperature. Available at operating temperatures of 800°F(88), 1200°F(82), 1400°F(84), and 1600°F(86). Ideal for Tool Rooms and Schools, providing a complete heat treat station in one furnace. Ruggedly constructed and rated for work loads up to 50 lbs. per square foot of hearth area. All models are completely wired, assembled, test fired and shipped ready for connection to main power supply. Compact design, fast installation, and simple, safe, dependable operation. All models will operate in inert atmosphere. Flammable atmosphere may be used with the addition of an Atmosphere Safety System per NFPA Code 86 C.

STANDARD FEATURES

- Welded sheet metal single shell construction.
- Both chambers are designed with the same working dimensions.



Model 86AM-K24

- Heavy gauge coil wound low-watt density heating elements for longer life.
- High-grade alloy muffle with 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 in the upper chamber.
- Silicon carbide hearth plate for muffle support and thermal transfer from floor elements in the upper chamber.
- Manual vertical lift door (8000 AM) and double pivot horizontal swing doors (85AM & 89AM) with high-temperature ceramic fiber gasket on the upper chamber.
- Safety micro-switch shuts off power to elements and fan on lower chamber when the door opens.
- Honeywell digital temperature controller with type K thermocouple and magnetic contactor on each chamber.
- Controls are mounted in a side-mounted NEMA 1 panel and operate on 115 volts.

MODEL SPECIFICATIONS

Model	Chamber Dimensions	Overall Dimensions	KW	Voltage	Weight (lbs)
82AM-C12	5"H X 5"W X 12"D	80"H X 32"W X 42"D	6	230/1	725
82AM-C18	5"H X 5"W X 18"D	80"H X 32"W X 48"D	7.5	230/1	800
82AM-F12	7"H X 7"W X 12"D	84"H X 35"W X 42"D	9	230/1	875
82AM-F18	7"H X 7"W X 18"D	84"H X 35"W X 48"D	11.5	230/1	1000
82AM-I12	10"H X 10"W X 12"D	92"H X 38"W X 42"D	11.5	230/1	1150
82AM-I18	10"H X 10"W X 18"D	92"H X 38"W X 48"D	14.5	230/3	1285
82AM-I24	10"H X 10"W X 24"D	92"H X 38"W X 54"D	19.5	230/3	1400
82AM-I36	10"H X 10"W X 36"D	92"H X 38"W X 68"D	25	230/3	2050
82AM-G18	8"H X 12"W X 18"D	68"H X 40"W X 48"D	14.5	230/460/3	1425
82AM-G24	8"H X 12"W X 24"D	68"H X 40"W X 54"D	19	230/460/3	1550
82AM-G36	8"H X 12"W X 36"D	68"H X 40"W X 66"D	24.5	230/460/3	1700
82AM-J18	10"H X 15"W X 18"D	70"H X 43"W X 48"D	21.5	230/460/3	2500
82AM-J24	10"H X 15"W X 24"D	70"H X 43"W X 54"D	25	230/460/3	2800
82AM-J36	10"H X 15"W X 36"D	70"H X 43"W X 66"D	30	230/460/3	3350
82AM-K12	12"H X 12"W X 12"D	72"H X 40"W X 42"D	14.5	230/460/3	1600
82AM-K18	12"H X 12"W X 18"D	72"H X 40"W X 48"D	20	230/460/3	2400
82AM-K24	12"H X 12"W X 24"D	72"H X 40"W X 54"D	24.5	230/460/3	2800
82AM-K36	12"H X 12"W X 36"D	72"H X 40"W X 66"D	29	230/460/3	3400
82AM-M24	12"H X 18"W X 24"D	72"H X 46"W X 54"D	29	230/460/3	2950
82AM-M36	12"H X 18"W X 36"D	72"H X 46"W X 66"D	39	230/460/3	3300
82AM-N24	15"H X 15"W X 24"D	76"H X 43"W X 54"D	30	230/460/3	3100
82AM-N36	15"H X 15"W X 36"D	76"H X 43"W X 66"D	42	230/460/3	3500
82AM-O18	18"H X 18"W X 18"D	80"H X 46"W X 48"D	32	230/460/3	3100
82AM-O24	18"H X 18"W X 24"D	80"H X 46"W X 54"D	39	230/460/3	3400
82AM-O36	18"H X 18"W X 36"D	80"H X 46"W X 66"D	46	230/460/3	3900