



## »»Blue M

1500 °C Heavy Duty Tube Furnace

### 1500°C Heavy Duty Tube Furnace

Our 1500°C Small Tube Furnace is easily operational, has an energy efficient design, fast cooling and rapid heat-up and response time. This unit offers superior radial and linear temperature uniformity and requires little or no maintenance. There are a variety of furnace sizes.



#### ► Features

- Temperature
  - 1500°C (2732°F) Maximum
- Chamber Sizes
  - 12" heated length bored for 2" OD process tube - 36" heated length bored for 7" OD process tube

#### Single-zone models

- Solid design incorporates double-end silicon carbide heating elements
- Chamber constructed of high-temperature graded insulation
- Insulating vestibules at the ends of the heated chamber
- Long-life, fast response type "R" thermocouples attached to six feet of compensated thermocouple lead wire with a polarized plug
- Cross chamber element positioning compensates for heat loss from the ends of the process tube and improves system performance

#### Three-zone models

- Three independent power circuits (zones) with independent thermocouples for control reference
- Temperature profiling: End zone setpoint temperature can be raised to compensate for heat losses and increase the length of the uniform temperature zone in the center of the furnace. To produce a pronounced controlled temperature gradient, one end zone can be operated at a lower temperature than the center zone, while the other end zone is run at a higher temperature. The setpoint temperature of each furnace zone is adjustable over a 0-1200°C range.
- Uniform center zone temperature profile
- Produces a pronounced controlled gradient

1500°C Heavy Duty Tube Furnace--Single Zone					
Model	Chamber Size Bore ID x L in. (cm)	Overall Dimensions WxHxD in. (cm)	Watts	Shipping Weight lbs. (kg)	Control Console
54233	2 x 12 (5.1 x 30.5)	20 x 19 x 25 (50.8 x 48.3 x 63.5)	7,200	250 (113)	58125
54253	2 x 24 (5.1 x 61)	20 x 19 x 37 (50.8 x 48.3 x 94)	6,857	370 (168)	58125
54433	3 x 12 (7.6 x 30.5)	20 x 19 x 25 (50.8 x 48.3 x 63.5)	7,200	270 (122)	58125
54453	3 x 24 (7.6 x 61)	20 x 19 x 37 (50.8 x 48.3 x 94)	6,857	390 (177)	58125
54553	4 x 24 (10.2 x 61)	20.5 x 20 x 37 (52.1 x 50.8 x 94)	11,900	430 (195)	58175
54653	5 x 24 (12.7 x 61)	25.5 x 24 x 37 (64.8 x 61 x 94)	13,200	520 (236)	58175
54753	6 x 24 (15.2 x 61)	33.5 x 31 x 37 (85.1 x 78.7 x 94)	15,000	720 (327)	58175
54853	7 x 24 (17.8 x 61)	33.5 x 31 x 37 (85.1 x 78.7 x 94)	28,200	755 (342)	58185

► Options:

- Computer communications port
- Software
- Inert and combustible atmosphere admission systems
- All standard 1500°C single and three zone tube furnace models are designed for horizontal operation. Furnaces specifically designed for vertical mounting are available on special order

All specifications are subject to change without notice.

1500°C Heavy Duty Tube Furnace--Three Zone					
Model	Chamber Size Bore ID x L in. (cm)	Overall Dimensions WxHxD in. (cm)	Watts	Shipping Weight lbs. (kg)	Control Console
54259	2 x 24 (5.1 x 61)	22.5 x 20 x 37 (57 x 50.8 x 94)	12,600	370 (168)	58475
54279	2 x 36 (5.1 x 91.4)	22.5 x 20 x 49 (57 x 50.8 x 124)	13,700	460 (209)	58475
54459	3 x 24 (7.6 x 61)	22.5 x 20 x 37 (57 x 50.8 x 94)	12,600	390 (177)	58475
54479	3 x 36 (7.6 x 91.4)	22.5 x 20 x 49 (57 x 50.8 x 124)	13,700	480 (218)	58475
54559	4 x 24 (10.2 x 61)	22.5 x 20 x 37 (57 x 50.8 x 94)	13,900	430 (195)	58475
54579	4 x 36 (10.2 x 91.4)	22.5 x 20 x 49 (57 x 50.8 x 124)	16,000	550 (249)	58475
54659	5 x 24 (12.7 x 61)	25.5 x 24 x 37 (64.8 x 61 x 94)	15,900	520 (236)	58475
54679	5 x 36 (12.7 x 91.4)	25.5 x 24 x 49 (64.8 x 61 x 124)	19,800	750 (340)	58485
54759	6 x 24 (15.2 x 61)	33.5 x 31 x 37 (85.1 x 78.7 x 94)	20,000	720 (327)	58485
54779	6 x 36 (15.2 x 91.4)	33.5 x 31 x 49 (85.1 x 78.7 x 124)	25,000	1000 (454)	58485
54859	7 x 24 (17.8 x 61)	31 x 28 x 37 (78.7 x 71.1 x 94)	30,000	755 (342)	58495
54879	7 x 36 (17.8 x 91.4)	31 x 28 x 49 (78.7 x 71.1 x 124)	37,500	1160 (526)	58495



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THERMAL PRODUCT SOLUTIONS

»»Blue M »»Gruenberg »»Lindberg/MPH »»Tenney