

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.



Single Zone Model Features

- 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
- 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.

Three Zone Model Features

- 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 0-1500°C range.
- Uniform center zone temperature profile
- Produces a pronounced controlled gradient
- 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.

Options

- Computer communications port
- Software
- Inert and combustible atmosphere admission systems
- Single-end and double-end retorts
- 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.



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1500°C Heavy Duty Tube Furnace - SINGLE ZONE					
Model	Chamber Size Bore ID x L inches (cm)	Overall Dimensions WxHxD inches (cm)	Wattage	Control Console	Shipping Weight lbs. (kg)
54233	2 x 12 (5.1 x 30.5)	20 x 19 x 25 (50.8 x 48.3 x 63.5)	7,200	58125	250 (113)
54253	2 x 24 (5.1 x 61)	20 x 19 x 37 (50.8 x 48.3 x 94)	6,857	58125	370 (168)
54433	3 x 12 (7.6 x 30.5)	20 x 19 x 25 (50.8 x 48.3 x 63.5)	7,200	58125	270 (122)
54453	3 x 24 (7.6 x 61)	20 x 19 x 37 (50.8 x 48.3 x 94)	6,857	58125	390 (177)
54553	4 x 24 (10.2 x 61)	20.5 x 20 x 37 (52.1 x 50.8 x 94)	11,900	58175	430 (195)
54653	5 x 24 (12.7 x 61)	25.5 x 24 x 37 (64.8 x 61 x 94)	13,200	58175	520 (236)
54753	6 x 24 (15.2 x 61)	33.5 x 31 x 37 (85.1 x 78.7 x 94)	15,000	58175	720 (327)
54853	7 x 24 (17.8 x 61)	33.5 x 31 x 37 (85.1 x 78.7 x 94)	28,200	58185	755 (342)
1500°C Heavy Duty Tube Furnace - THREE ZONE					
54259	2 x 24 (5.1 x 61)	22.5 x 20 x 37 (57 x 50.8 x 94)	12,600	58475	370 (168)
54279	2 x 36 (5.1 x 91.4)	22.5 x 20 x 49 (57 x 50.8 x 124)	13,700	58475	460 (209)
54459	3 x 24 (7.6 x 61)	22.5 x 20 x 37 (57 x 50.8 x 94)	12,600	58475	390 (177)
54479	3 x 36 (7.6 x 91.4)	22.5 x 20 x 49 (57 x 50.8 x 124)	13,700	58475	480 (218)
54559	4 x 24 (10.2 x 61)	22.5 x 20 x 37 (57 x 50.8 x 94)	13,900	58475	430 (195)
54579	4 x 36 (10.2 x 91.4)	22.5 x 20 x 49 (57 x 50.8 x 124)	16,000	58475	550 (249)
54659	5 x 24 (12.7 x 61)	25.5 x 24 x 37 (64.8 x 61 x 94)	15,900	58475	520 (236)
54679	5 x 36 (12.7 x 91.4)	25.5 x 24 x 49 (64.8 x 61 x 124)	19,800	58485	750 (340)
54759	6 x 24 (15.2 x 61)	33.5 x 31 x 37 (85.1 x 78.7 x 94)	20,000	58485	720 (327)
54779	6 x 36 (15.2 x 91.4)	33.5 x 31 x 49 (85.1 x 78.7 x 124)	25,000	58485	1000 (454)
54859	7 x 24 (17.8 x 61)	31 x 28 x 37 (78.7 x 71.1 x 94)	30,000	58495	755 (342)
54879	7 x 36 (17.8 x 91.4)	31 x 28 x 49 (78.7 x 71.1 x 124)	37,500	58495	1160 (526)

All specifications are subject to change without notice.

