



»» Blue M

1200°C Box Furnace

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Temperature uniformity and fast heat-up, and recovery and cool-down rates are excellent benefits of our 1200°C Box Furnace. It has a dense load capability and the spring-loaded door assures secure closure.



► Features

- Double shell construction
- Individual heating elements at chamber top, bottom, and sides
- Moldatherm® ceramic fiber insulation
- High temperature insulation in vestibule plug door
- Heating element embedded Moldatherm® pads
- Refractory plate heating unit for Model BF51442C
- Plantinel® II thermocouple with 10 compensated lead wire and polarized plug
- Temperature
 - 1200°C (2192°F) Maximum
- Chamber Sizes
 - 551.25 Cubic Inches - 28.24 Cubic Feet

Model	Chamber Dimensions W x H x D in. (cm)	Outer Dimensions W x H x D in. (cm)	Watts	Shipping Weight (lbs.)	Control Console Model No.
51442	7.5 x 5.25 x 14 (19.1 x 13.3 x 35.6)	20 x 20 x 24.5 (50.8 x 50.8 x 62.2)	4,880	135	58114
51542	10.5 x 9.5 x 14.5 (26.7 x 24.1 x 36.8)	28 x 28.5 x 31 (71.1 x 72.4 x 78.7)	6,200	320	58114
51642	13 x 8 x 15 (33 x 20.3 x 38.1)	30 x 27 x 32 (76.2 x 68.6 x 81.3)	6,800	380	58124
51662	12 x 12 x 14 (30.5 x 30.5 x 35.6)	30 x 31 x 31 (76.2 x 78.7 x 78.7)	6,800	450	58124
51668	12 x 12 x 24 (30.5 x 30.5 x 61)	30 x 31 x 41 (76.2 x 78.7 x 104.1)	12,000	600	58124
51862	14 x 16 x 24 (35.6 x 40.6 x 61)	34 x 35 x 41 (86.4 x 88.9 x 104.1)	16,000	800	58174

Model	58114	58124	58174
Preset TC Input	Platinel II	Platinel II	Platinel II
Preset Control Range	1-1200C	0-1200C	0-1200C
Maximum Current/zone (Amps)	30	60	120
Voltage	208/240	208/240	208/240
Hertz	50/60	50/60	50/60
Overall Size HxWxD	10 x 14 x 19	10 x 14 x 19	17 x 17 x 21
in. (cm)	(25.4 x 35.6 x 48.3)	(25.4 x 35.6 x 48.3)	(43.2 x 43.2 x 53.3)
Shipping Weight (lbs.)	30	30	30

All specifications are subject to change without notice.

Options:

- Blue M Built-In Temperature Control Console
 - Provides additional features and versatility for your control system
- Programmable Controller (Option P)
 - Offers the convenient flexibility of ramping to multiple setpoint temperatures and holding for variable time periods at those temperatures.
 - Temperature controller provides 16 programmable segments consisting of ramps or dwells
- Multiple Programs (Option P4)
 - Offers the convenient flexibility of ramping to multiple setpoint temperatures and holding for variable time periods at those temperatures.
 - Provides up to four 16-programmable segments or one 64-segment program.
- Excess temperature protection (Option B)
 - Provides positive protection of both furnace and load in event of failure in the primary control circuit.
 - Redundant circuit includes separate instrument with manual reset push button, magnetic contactor and independent thermocouple.
- Digital communication kits
 - Allow modification and interrogation of all instrument control and configuration parameters from a remote computer using Blue M provided SPECVIEW® software.
 - Available to interface with RS232 or RS422/485 communication ports
- Atmosphere Retorts
 - Available for all Blue M 1200°C box furnaces when controlled atmosphere processing is required.
 - Atmosphere Control Consoles



Gruenberg, Blue M, Tenney

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THERMAL PRODUCT SOLUTIONS

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