

Thermo Scientific Lindberg/Blue M Moldatherm Box Furnaces

Versatile selection of chamber box furnaces in several popular chamber sizes to meet a variety of demanding industrial and laboratory applications



- Unique insulation and heating element composites to minimize outer surface temperatures while maintaining uniform heat distribution within the chamber
- Advanced engineering and specialized construction techniques include variable density insulation, double shell cabinets, long-life heating elements and horizontal side swing doors
- Selectable self-tuning feature sets best control parameters for the thermal process
- PID control (proportional, integral, derivative) prevents overshoot
- Main power ON/OFF switch on control panel
- Controlled heat-up rate eliminates thermal shock to materials
- Quick heat-up and cool-down rates
- Adjustable high-limit over-temperature protection
- Simultaneous LED display of actual temperature vs. setpoint (°C or °F)

Advanced Construction

- Advanced double wall minimizes exterior surface temperatures for operator safety and energy efficiency
- Side-hinge door for convenient operation and full chamber access
- Long-life Type K thermocouple
- Air vent (1in. dia., top) and air inlet (0.375in. dia., rear) for inert atmosphere exchange; note: door is not gas-tight
- Removable and replaceable Moldatherm® hearth plate supports load and prevents damage due to spillage
- Energy efficient Moldatherm insulation with embedded heating elements
- Safety door switch to interrupt power to heating element when door is opened; protects heating element and minimizes exposure to end-user

Controller choices, with over-temperature protection:

- **A:** Digital single segment, single setpoint, one ramp to setpoint
- **B:** Digital single program with multiple segments for ramp (up and down) and dwell (timed hold) temperature control

Ordering Information: Optional RS485 Digital Communications Port allows controller to be connected to a PC for remote monitoring and control of the furnace. Up to 30 units can be connected to one PC
Includes: 10ft. power cord except 1.5 cu. ft. models which require customer-supplied power cord or hardwiring
Warranty*: 1 year (parts and labor)
Certifications: UL

Cat. No.	Capacity	Temp. Range	Interior Dimensions (D x W x H)	Exterior Dimensions (L x W x H)	Control	Electrical	Shipping Weight
BF51748A-1	1.99L (0.07 cu. ft.)	100° to 1100°C	20.3 x 10.2 x 10.2cm (4 x 8 x 4in.)	50.8 x 38.1 x 44.4cm (20 x 15 x 17.5in.)	A/OTP	120V 50/60Hz 1800w	25kg (55 lb.)
BF51748C-1	1.99L (0.07 cu. ft.)	100° to 1100°C	20.3 x 10.2 x 10.2cm (4 x 8 x 4in.)	50.8 x 38.1 x 44.4cm (20 x 15 x 17.5in.)	A/OTP	208/240V 50/60Hz 1800w	25kg (55 lb.)
BF51848A-1	1.99L (0.07 cu. ft.)	100° to 1100°C	20.3 x 10.2 x 10.2cm (4 x 8 x 4in.)	50.8 x 38.1 x 44.4cm (20 x 15 x 17.5in.)	B/OTP	120V 50/60Hz 1800w	25kg (55 lb.)
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BF51766A-1	5.3L (0.19 cu. ft.)	100° to 1100°C	22.9 x 15.2 x 15.2cm (9 x 6 x 6in.)	53.3 x 43.1 x 54.6cm (21 x 17 x 21.5in.)	A/OTP	120V 50/60Hz 1800w	50kg (110 lb.)
BF51766C-1	5.3L (0.19 cu. ft.)	100° to 1100°C	22.9 x 15.2 x 15.2cm (9 x 6 x 6in.)	53.3 x 43.1 x 54.6cm (21 x 17 x 21.5in.)	A/OTP	208/240V 50/60Hz 1800w	50kg (110 lb.)
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BF51794C-1	18.4L (0.65 cu. ft.)	100° to 1100°C	35.6 x 22.9 x 22.9cm (14 x 9 x 9in.)	65.4 x 53.3 x 66cm (25.75 x 21 x 26in.)	A/OTP	208/240V 50/60Hz 3500w	59kg (130 lb.)
BF51894C-1	18.4L (0.65 cu. ft.)	100° to 1100°C	35.6 x 22.9 x 22.9cm (14 x 9 x 9in.)	65.4 x 53.3 x 66cm (25.75 x 21 x 26in.)	B/OTP	208/240V 50/60Hz 3500w	59kg (130 lb.)
BF51728C-1	42.5L (1.5 cu. ft.)	100° to 1100°C	45.7 x 30.5 x 30.5cm (18 x 12 x 12in.)	76.2 x 60.9 x 71.1cm (30 x 24 x 28in.)	A/OTP	208/240V 50/60Hz 5600w	84kg (185 lb.)
BF51828C-1	42.5L (1.5 cu. ft.)	100° to 1100°C	45.7 x 30.5 x 30.5cm (18 x 12 x 12in.)	76.2 x 60.9 x 71.1cm (30 x 24 x 28in.)	B/OTP	208/240V 50/60Hz	84kg (185 lb.)

To add RS-485 Digital Communications Port to Furnace model, add "COM" to model number before last letter in cat. no. – e.g., BF51748COMA-1