

Maximizing Productivity for Every Lab, Every Day

Thermo Scientific* Lindberg/Blue M* Moldatherm* Box Furnaces



Thermo Scientific Lindberg/Blue M product line offers a versatile selection of chamber box furnaces suitable for a variety of industrial and laboratory applications.

Available in several popular chamber sizes to meet the most demanding laboratory applications, these furnaces include 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 vertical, horizontal side swing or swing down doors.

Microprocessor-based Control

- 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 overtemperature protection
- Simultaneous LED display of actual temperature vs. setpoint
- Can be configured to display temperature in either °C or °F

Construction

- Unique 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; will experience some leakage at door
- 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

Digital, Single-Setpoint Controller

- Single segment, single setpoint, one ramp to setpoint

Digital Single-Program, Multiple-Segment Programmable Controller

- 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: 12 months

Certifications: UL

Specifications	
Temperature Range	100° to 1100°C
Display	LED: actual vs. setpoint (in °C or °F)

Cat. No.	Capacity	Interior Dimensions (D x W x H)	Exterior Dimensions (L x W x H)	Control	Electrical Requirements	Power Consumption	Shipping Weight
BF51748A	1.99L (0.07 cu. ft.)	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.)	Digital/OTP	120V 50/60Hz	1800w	25kg (55 lb.)
BF51748C	1.99L (0.07 cu. ft.)	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.)	Digital/OTP	208/240V 50/60Hz	1800w	25kg (55 lb.)
BF51848A	1.99L (0.07 cu. ft.)	20.3 x 10.2 x 10.2cm (4 x 8 x 4in.)	50.8 x 38.1 x 44.4cm (20x 15 x 17.5in.)	Multiple Seg/1 Prog/OTP	120V 50/60Hz	1800w	25kg (55 lb.)
BF51848C	1.99L (0.07 cu. ft.)	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.)	Multiple Seg/1 Prog/OTP	208/240V 50/60Hz	1800w	25kg (55 lb.)
BF51766A	5.3L (0.19 cu. ft.)	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.)	Digital/OTP	120V 50/60Hz	1800w	50kg (110 lb.)
BF51766C	5.3L (0.19 cu. ft.)	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.)	Digital/OTP	208/240V 50/60Hz	1800w	50kg (110 lb.)
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Thermo Scientific Laboratory Products

Cat. No.	Capacity	Interior Dimensions (D x W x H)	Exterior Dimensions (L x W x H)	Control	Electrical Requirements	Power Consumption	Shipping Weight
BF51794C	18.4L (0.65 cu. ft.)	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.)	Digital/OTP	208/240V 50/60Hz	3500w	59kg (130 lb.)
BF51894C	18.4L (0.65 cu. ft.)	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.)	Multiple Seg/1 Prog/OTP	208/240V 50/60Hz	3500w	59kg (130 lb.)
BF51728C	42.5L (1.5 cu. ft.)	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.)	Digital/OTP	208/240V 50/60Hz	5600w	84kg (185 lb.)
BF51828C	42.5L (1.5 cu. ft.)	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.)	Multiple Seg/1 Prog/OTP	208/240V 50/60Hz	5600w	84kg (185 lb.)