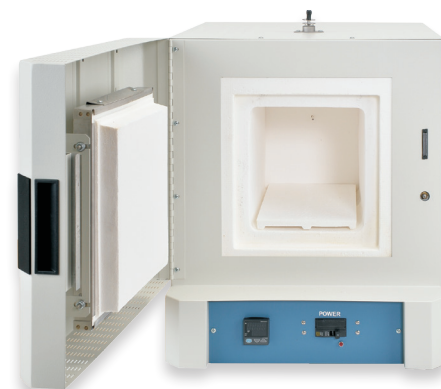# Thermo Scientific Lindberg/Blue M moldatherm box furnaces

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 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 control parameters for the thermal process
- PID control prevents temperature 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 (1 in. dia., top) and air inlet (0.375 in. 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

Model BF51794C-1 with standard left hand door

- 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, all with over-temperature protection
- A, B temperature control
- See page 7 for control details

Cat. No.	Capacity	Temp. Range	Interior (D x W x H)	Exterior (L x W x H)	Control	Electrical	Shipping Weight	Plug Type
BF51748 A-1	1.99 L (0.07 cu. ft.)	100° to 1100 °C	20.3 x 10.2 x 10.2 cm (4 x 8 x 4 in)	50.8 x 38.1 x 44.4 cm (20 x 15 x 17.5 in)	A/OTP	120 V, 50/60 Hz 1800 W, 15 A	25 kg (55 Lb.)	
BF51748C-1**	1.99 L (0.07 cu. ft.)	100° to 1100 °C	20.3 x 10.2 x 10.2 cm (4 x 8 x 4 in)	50.8 x 38.1 x 44.4 cm (20 x 15 x 17.5 in)	A/OTP	208/240 V, 50/60 Hz 1800 W, 7.5 A	25 kg (55 Lb.)	
BF51848 A-1	1.99 L (0.07 cu. ft.)	100° to 1100 °C	20.3 x 10.2 x 10.2 cm (4 x 8 x 4 in)	50.8 x 38.1 x 44.4 cm (20x 15 x 17.5 in)	B/OTP	120 V, 50/60 Hz 1800 W, 15 A	25 kg (55 Lb.)	
BF51848C-1	1.99 L (0.07 cu. ft.)	100° to 1100 °C	20.3 x 10.2 x 10.2 cm (4 x 8 x 4 in)	50.8 x 38.1 x 44.4 cm (20 x 15 x 17.5 in)	B/OTP	208/240 V, 50/60 Hz 1800 W, 7.5 A	25 kg (55 Lb.)	
BF51848KC-1**	1.99 L (0.07 cu. ft.)	100° to 1100 °C	20.3 x 10.2 x 10.2 cm (4 x 8 x 4 in)	50.8 x 38.1 x 44.4 cm (20 x 15 x 17.5 in)	B/OTP	208/240 V, 50/60 Hz 1800 W, 7.5 A	25 kg (55 Lb.)	
BF51766 A-1	5.3 L (0.19 cu. ft.)	100° to 1100 °C	22.9 x 15.2 x 15.2 cm (9 x 6 x 6 in)	53.3 x 43.1 x 54.6 cm (21 x 17 x 21.5 in)	A/OTP	120 V, 50/60 Hz 1800 W, 15 A	50 kg (110 Lb.)	
BF51766C-1**	5.3 L (0.19 cu. ft.)	100° to 1100 °C	22.9 x 15.2 x 15.2 cm (9 x 6 x 6 in)	53.3 x 43.1 x 54.6 cm (21 x 17 x 21.5 in)	A/OTP	208/240 V, 50/60 Hz 1800 W, 7.5 A	50 kg (110 Lb.)	
BF51766KC-1**	5.3 L (0.19 cu. ft.)	100° to 1100 °C	22.9 x 15.2 x 15.2 cm (9 x 6 x 6 in)	53.3 x 43.1 x 54.6 cm (21 x 17 x 21.5 in)	A/OTP	208/240 V, 50/60 Hz 1800 W, 7.5 A	50 kg (110 Lb.)	
BF51866 A-1	5.3 L (0.19 cu. ft.)	100° to 1100 °C	22.9 x 15.2 x 15.2 cm (9 x 6 x 6 in)	53.3 x 43.1 x 54.6 cm (21 x 17 x 21.5 in)	B/OTP	120 V, 50/60 Hz 1800 W, 15 A	50 kg (110 Lb.)	
BF51866C-1	5.3 L (0.19 cu. ft.)	100° to 1100 °C	22.9 x 15.2 x 15.2 cm (9 x 6 x 6 in)	53.3 x 43.1 x 54.6 cm (21 x 17 x 21.5 in)	B/OTP	208/240 V, 50/60 Hz 1800 W, 7.5 A	50 kg (110 Lb.)	
BF51866KC-1**	5.3 L (0.19 cu. ft.)	100° to 1100 °C	22.9 x 15.2 x 15.2 cm (9 x 6 x 6 in)	53.3 x 43.1 x 54.6 cm (21 x 17 x 21.5 in)	B/OTP	208/240 V, 50/60 Hz 1800 W, 7.5 A	50 kg (110 Lb.)	
BF51794C-1**	18.4 L (0.65 cu. ft.)	100° to 1100 °C	35.6 x 22.9 x 22.9 cm (14 x 9 x 9 in)	65.4 x 53.3 x 66 cm (25.75 x 21 x 26 in.)	A/OTP	208/240 V, 50/60 Hz 3500 W, 14.6 A	59 kg (130 Lb.)	
BF51894C-1	18.4 L (0.65 cu. ft.)	100° to 1100 °C	35.6 x 22.9 x 22.9 cm (14 x 9 x 9 in)	65.4 x 53.3 x 66 cm (25.75 x 21 x 26 in)	B/OTP	208/240 V, 50/60 Hz 3500 W, 14.6 A	59 kg (130 Lb.)	
BF51728C-1**	42.5 L (1.5 cu. ft.)	100° to 1100 °C	45.7 x 30.5 x 30.5 cm (18 x 12 x 12 in)	76.2 x 60.9 x 71.1 cm (30 x 24 x 28 in)	A/OTP	208/240 V, 50/60 Hz 5600 W, 23.3 A	84 kg (185 Lb.)	No plug, no cable, requires hardwiring
BF51728RHDC-1*	42.5 L (1.5 cu. ft.)	100° to 1100 °C	45.7 x 30.5 x 30.5 cm (18 x 12 x 12 in)	76.2 x 60.9 x 71.1 cm (30 x 24 x 28 in)	A/OTP	208/240 V, 50/60 Hz 5600 W, 23.3 A	84 kg (185 Lb.)	No plug, no cable, requires hardwiring
BF51828C-1	42.5 L (1.5 cu. ft.)	100° to 1100 °C	45.7 x 30.5 x 30.5 cm (18 x 12 x 12 in)	76.2 x 60.9 x 71.1 cm (30 x 24 x 28 in)	B/OTP	208/240 V, 50/60 Hz, 23.3 A	84 kg (185 Lb.)	No plug, no cable, requires hardwiring
BF51828RHDC-1*	42.5 L (1.5 cu. ft.)	100° to 1100 °C	45.7 x 30.5 x 30.5 cm (18 x 12 x 12 in)	76.2 x 60.9 x 71.1 cm (30 x 24 x 28 in)	B/OTP	208/240 V, 50/60 Hz, 23.3 A	84 kg (185 Lb.)	No plug, no cable, requires hardwiring

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

*"RHD" designates right hand door - compared to regular model with left hand door
**No digital communications port option available
Warranty⁴: 1 year (parts and labor)
Certifications: UL