

# Thermo Scientific Lindberg/Blue M Moldatherm box furnaces

Versatile selection of 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
- 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
- Adjustable high-limit over-temperature protection
- Simultaneous LED display of actual temperature vs. setpoint (°C or °F)

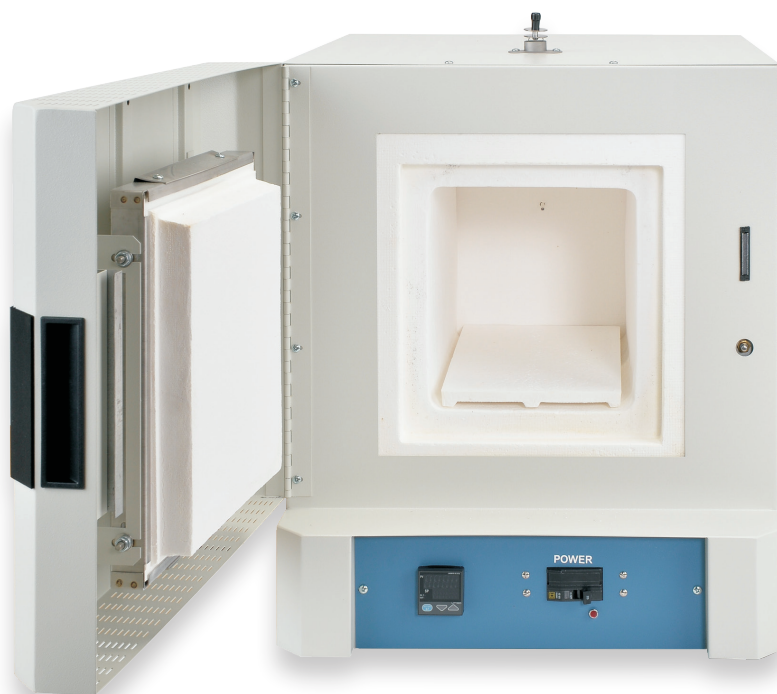
## Advanced construction

- Variable density insulation
- Double shell cabinets
- Long-life heating elements
- Horizontal side swing doors
- 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

- 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 5 for control details



Model BF51794C-1 with standard left hand door

## Applications

- Incineration
- Ashing
- Baking
- Annealing
- Analytical processes

Capacity	Temperature Range	Temperature Uniformity	Interior Dimensions	Exterior Dimensions	Shipping Weight
1.99L 0.07 cu. Ft.	100 °C to 1100 °C	± 2.0 at 1100 °C	10.2 x 10.2 x 20.3 cm 4 x 4 x 8 in.	50.8 x 38.1 x 44.4 cm 20 x 15 x 17.5 in	24.9 kg 55 lb

Please choose model based on your electrical requirements:

Cat. No.	Control	Over Temperature Protection	Comm Port Cat. No.	Electrical	Plug Type	Certification
BF51748A-1	Single Program with 8 segments	Yes	BF51748COMA-1	120 V, 50/60Hz, 15 A, 1800 W	US: Nema 5-20P	UL
BF51748C-1	Single Program with 8 segments	Yes		208/240 V, 50/60Hz, 7.5 A, 1800 W	EU 1-16P and US NEMA 6-20P	UL, CE
BF51848A-1	5 Programs with 16 segments each	Yes	BF51848COMA-1	120 V, 50/60Hz, 15 A, 1800 W	US: Nema 5-20P	UL
BF51848C-1	5 Programs with 16 segments each	Yes	BF51848COMC-1	208/240 V, 50/60Hz, 7.5 A, 1800 W	EU 1-16P and US NEMA 6-20P	UL, CE

Capacity	Temperature Range	Temperature Uniformity	Interior Dimensions	Exterior Dimensions	Shipping Weight
5.3L 0.19 cu. Ft.	100°C to 1100°C	± 2.0 °C at 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	50 kg 110 lb

Please choose model based on your electrical requirements:

Cat. No.	Control	Over Temperature Protection	Comm Port Cat. No.	Electrical	Plug Type	Certification
BF51766A-1	Single Program with 8 segments	Yes	BF51766COMA-1	120 V, 50/60Hz, 15 A, 1800 W	US: Nema 5-20P	UL
BF51766C-1	Single Program with 8 segments	Yes	BF51766COMC-1	208/240 V, 50/60Hz, 7.5 A, 1800 W	EU 1-16P and US NEMA 6-20P	UL, CE
BF51866A-1	5 Programs with 16 segments each	Yes	BF51866COMA-1	120 V, 50/60Hz, 15 A, 1800 W	US: Nema 5-20P	UL
BF51866C-1	5 Programs with 16 segments each	Yes	BF51866COMC-1	208/240 V, 50/60Hz, 7.5 A, 1800 W	EU 1-16P and US NEMA 6-20P	UL, CE

Capacity	Temperature range	Temperature Uniformity	Interior dimensions	Exterior dimensions	Shipping Weight
18.4L 0.65 cu. Ft.	100°C to 1100°C	± 2.0 °C at 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	59 kg 130 lb

Please choose model based on your electrical requirements:

Cat. No.	Control	OTP Standard	Comm Port Cat. No.	Electrical	Plug Type	Certification
BF51794C-1	Single Program with 8 segments	Yes		120 V, 50/60Hz, 15 A, 1800 W	EU 1-16P and US NEMA 6-20P	UL
BF51894C-1	5 Programs with 16 segments each	Yes	BF51894COMC-1	208/240 V, 50/60Hz, 7.5 A, 1800 W	EU 1-16P and US NEMA 6-20P	UL

Capacity	Temperature range	Temperature Uniformity	Interior dimensions	Exterior dimensions	Shipping Weight
42.5L 1.5 cu. Ft.	100°C to 1100°C	± 2.0 °C at 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	84 kg 185 lb

Please choose model based on your electrical requirements:

Cat. No.	Control	Over Temperature Protection	Comm Port Cat. No.	Electrical	Plug Type	Certification
BF51728C-1	Single Program with 8 segments	Yes		120 V, 50/60Hz, 15 A, 1800 W	No plug, no cable, requires hard wiring	UL, CE
BF51728RHDC-1	Single Program with 8 segments	Yes	BF51728RHDCOMC-1	120 V, 50/60Hz, 15 A, 1800 W	No plug, no cable, requires hard wiring	UL, CE
BF51828C-1	5 Programs with 16 segments each	Yes	BF51828COMC-1	208/240 V, 50/60Hz, 7.5 A, 1800 W	No plug, no cable, requires hard wiring	UL, CE
BF51828RHDC-1	5 Programs with 16 segments each	Yes	BF51828RHDCOMC-1	208/240 V, 50/60Hz, 7.5 A, 1800 W	No plug, no cable, requires hard wiring	UL, CE

\*\*“RHD” designates right hand door - compared to regular model with left hand door

**Warranty:** 1 year (parts and labor) **Certifications:** UL, CE on designated units. See Table.