

# Thermo Scientific Lindberg/Blue M multipurpose 1500 °C box furnaces

Multipurpose furnaces feature integral control to 1500 °C

- Double-wall construction with Moldatherm insulation for rapid heatup and cooldown, energy efficiency and cooler exterior surface temperatures
- Adjustable high-limit over-temperature protection
- Microprocessor-based PID control
- Choice of two controllers: single program with multiple segments for ramp (up and down) and dwell (timed hold) temperature control or multiple program with up to 300 segments
- Optional adjustable digital over-temperature control (OTC) protects furnace and load in the event of primary control circuit failure
- Simultaneous LED display of actual and setpoint temperatures in either °C or °F
- Silicon carbide heating elements for long-life, safety and reliable service with maximum energy savings
- Safety door switch interrupts power to heating elements when door is opened; protects elements and minimizes exposure to operator
- Moldatherm hearth plate supports load and protects interior from spillage and mishandling
- Type “R” thermocouple is integrated into chamber back wall
- 6L models with vertical lift door, 25 L models with side swing door

### Control choices

- B,C choice of over-temperature protection on select models
- See page 7 for details on controllers



BF51422PBC Box furnace with vertical lift door

### Applications

- Annealing
- Melting
- Heat treatment
- Brazing
- Alloying

Cat. No.	Capacity	Temperature Range	Controller	Interior (D x W x H)	Exterior (L x W x H)	Electrical	Plug Type
<b>Vertical Lift Door</b>							
BF51433C-1	6 L (0.21 cu. ft.)	500° to 1500 °C	B	30.5 x 15.2 x 12.7 cm (12 x 6 x 5 in)	73.7 x 63.5 x 66 cm (29 x 25 x 26 in)	208/240 V, 50/60 Hz, 6400 W, 27 A	No plug, no cable, requires hardwiring
BF51433BC-1	6 L (0.21 cu. ft.)	500° to 1500 °C	B, with OTC	30.5 x 15.2 x 12.7 cm (12 x 6 x 5 in)	73.7 x 63.5 x 66 cm (29 x 25 x 26 in)	208/240 V, 50/60 Hz, 6400 W, 27 A	No plug, no cable, requires hardwiring
BF51433PC-1	6 L (0.21 cu. ft.)	500° to 1500 °C	C	30.5 x 15.2 x 12.7 cm (12 x 6 x 5 in)	73.7 x 63.5 x 66 cm (29 x 25 x 26 in)	208/240 V, 50/60 Hz, 6400 W, 27 A	No plug, no cable, requires hardwiring
BF51433PBC-1	6 L (0.21 cu. ft.)	500° to 1500 °C	C, with OTC	30.5 x 15.2 x 12.7 cm (12 x 6 x 5 in)	73.7 x 63.5 x 66 cm (29 x 25 x 26 in)	208/240 V, 50/60 Hz, 6400 W, 27 A	No plug, no cable, requires hardwiring
BF51433COMC-1	6 L (0.21 cu. ft.)	500° to 1500 °C	B, with RS485 data interface	30.5 x 15.2 x 12.7 cm (12 x 6 x 5 in)	73.7 x 63.5 x 66 cm (29 x 25 x 26 in)	208/240 V, 50/60 Hz, 6400 W, 27 A	No plug, no cable, requires hardwiring
BF51433PBCOMC-1	6 L (0.21 cu. ft.)	500° to 1500 °C	C, with OTC and RS485 data interface	30.5 x 15.2 x 12.7 cm (12 x 6 x 5 in)	73.7 x 63.5 x 66 cm (29 x 25 x 26 in)	208/240 V, 50/60 Hz, 6400 W, 27 A	No plug, no cable, requires hardwiring
<b>Horizontal Side Swing Door</b>							
BF51643C-1	25 L (0.88 cu. ft.)	500° to 1500 °C	C	39.4 x 27.9 x 22.9 cm (15.5 x 11 x 9 in)	76.2 x 71.1 x 78.7 cm (30 x 28 x 31 in)	208/240 V, 50/60 Hz, 14800 W, 62 A	No plug, no cable, requires hardwiring
BF51643BC-1	25 L (0.88 cu. ft.)	500° to 1500 °C	C, with OTC	39.4 x 27.9 x 22.9 cm (15.5 x 11 x 9 in)	76.2 x 71.1 x 78.7 cm (30 x 28 x 31 in)	208/240 V, 50/60 Hz, 14800 W, 62 A	No plug, no cable, requires hardwiring

**Ordering information:** Required power cord and hardwiring are not included

**Warranty\*:** 1 year (parts and labor)