

# Thermo Scientific Lindberg/Blue M LGO 1200 °C box furnaces

Latest technical advances in heating elements, insulation and temperature control, all integrated into a self-contained cabinet

- Feature exclusive LGO heating elements and Moldatherm insulation for efficient and economical transfer of heat to chamber, with low exterior temperatures
- Variable heat-up rate eliminates thermal shock to materials with quick heat-up and cool-down rates
- Air vent (1 in. dia., top) and air inlet (0.375 in. dia., rear) for inert atmosphere exchange; (Note: door is not gas-tight)
- Self-tuning, digital instrumentation for precise temperature setpoint and display
- Platinel II thermocouple for long-term stability
- 0.6 cu.ft. models feature vertical lift door; 2 cu.ft. models feature horizontal side swing door, hot side facing away from operator for protection

## Microprocessor control

- Microprocessor-based self-tuning PID control provides optimum thermal process, prevents overshoot
- Control panel designed for easy access and maintenance
- Main power ON/OFF switch on control panel
- Adjustable high-limit over-temperature protection
- Simultaneous LED display of actual temperature vs. setpoint in °C or °F

- Safety door switch interrupts power to heating element when door is opened; protects heating elements and minimizes exposure to end-user
- Removable shelves for versatility
- Moldatherm hearthplate supports load and prevents damage due to spillage

## Flowmeter option (FM)

- Available on selected models with “FM” designation (see chart)
- Gas flowmeter, adjustable, located on front control panel
- Adjustable flow rate, range 1.0 to 10.0 cu.ft./hr standard
- Suitable for inert gas or air flow to chamber
- Allows fresh air exchange for ashing applications
- Not suitable for combustible or volatile gases

Note: Use with inert atmosphere will exhibit some leakage.

## Controller choices, all with over-temperature protection

- A, B, C, choice of overtemperature control (OTC), flow meter option (FM) on select models
- See page 7 for control details



Model BF51842C-1 with horizontal side swing door

## Applications

- Drying
- Ashing
- Annealing
- Enameling
- Tempering
- Heat treatment
- Melting

Cat. No.	Capacity	Temp. Range	Interior (D x W x H)	Exterior (L x W x H)	Control	Electrical	Shipping Weight	Plug Type
<b>Vertical Lift Door</b>								
BF51731C-1	16.4 L (0.6 cu. ft.)	100° to 1200 °C	27.9 x 33.0 x 17.8 cm (11 x 12 x 11 in)	58.4 x 61 x 68.6 cm (23 x 24 x 27 in)	A	208/240 V, 50/60 Hz 4500 W, 16-19 A	75 kg	No plug, no cable, requires hardwiring
BF51731BC-1**	16.4 L (0.6 cu. ft.)	100° to 1200 °C	27.9 x 33.0 x 17.8 cm (11 x 12 x 11 in)	58.4 x 61 x 68.6 cm (23 x 24 x 27 in)	A/OTC	208/240 V, 50/60 Hz 4500 W, 16-19 A	75 kg	No plug, no cable, requires hardwiring
BF51732C-1	16.4 L (0.6 cu. ft.)	100° to 1200 °C	27.9 x 33.0 x 17.8 cm (11 x 12 x 11 in)	58.4 x 61 x 68.6 cm (23 x 24 x 27 in)	B	208/240 V, 50/60 Hz 4500 W, 16-19 A	75 kg	No plug, no cable, requires hardwiring
BF51732BC-1	16.4 L (0.6 cu. ft.)	100° to 1200 °C	27.9 x 33.0 x 17.8 cm (11 x 12 x 11 in)	58.4 x 61 x 68.6 cm (23 x 24 x 27 in)	B/OTC	208/240 V, 50/60 Hz 4500 W, 16-19 A	75 kg	No plug, no cable, requires hardwiring
BF51732PC-1**	16.4 L (0.6 cu. ft.)	100° to 1200 °C	27.9 x 33.0 x 17.8 cm (11 x 12 x 11 in)	58.4 x 61 x 68.6 cm (23 x 24 x 27 in)	C	208/240 V, 50/60 Hz 4500 W, 16-19 A	75 kg	No plug, no cable, requires hardwiring
BF51732PBC-1**	16.4 L (0.6 cu. ft.)	100° to 1200 °C	27.9 x 33.0 x 17.8 cm (11 x 12 x 11 in)	58.4 x 61 x 68.6 cm (23 x 24 x 27 in)	C/OTC	208/240 V, 50/60 Hz 4500 W, 16-19 A	75 kg	No plug, no cable, requires hardwiring
BF51732PFMC-1	16.4 L (0.6 cu. ft.)	100° to 1200 °C	27.9 x 33.0 x 17.8 cm (11 x 12 x 11 in)	58.4 x 61 x 68.6 cm (23 x 24 x 27 in)	C/FM	208/240 V, 50/60 Hz 4500 W, 16-19 A	75 kg	No plug, no cable, requires hardwiring
BF51732PBFMC-1	16.4 L (0.6 cu. ft.)	100° to 1200 °C	27.9 x 33.0 x 17.8 cm (11 x 12 x 11 in)	58.4 x 61 x 68.6 cm (23 x 24 x 27 in)	C/OTC/FM	208/240 V, 50/60 Hz 4500 W, 16-19 A	75 kg	No plug, no cable, requires hardwiring
BF51732PBFCOMC-1*	16.4 L (0.6 cu. ft.)	100° to 1200 °C	27.9 x 33.0 x 17.8 cm (11 x 12 x 11 in)	58.4 x 61 x 68.6 cm (23 x 24 x 27 in)	C/OTC/FM	208/240 V, 50/60 Hz 4500 W, 16-19 A	75 kg	No plug, no cable, requires hardwiring
<b>Horizontal Side Swing Door</b>								
BF51841C-1**	55.3 L (2.0 cu. ft.)	100° to 1200 °C	38.1 x 38.1 x 38.1 cm (15 x 15 x 15 in)	71.1 x 73.7 x 83.8 cm (28 x 29 x 33 in)	A	208/240 V, 50/60 Hz 5800 W, 25 A	127 kg	No plug, no cable, requires hardwiring
BF51841BC-1**	55.3 L (2.0 cu. ft.)	100° to 1200 °C	38.1 x 38.1 x 38.1 cm (15 x 15 x 15 in)	71.1 x 73.7 x 83.8 cm (28 x 29 x 33 in)	A/OTC	208/240 V, 50/60 Hz 5800 W, 25 A	127 kg	No plug, no cable, requires hardwiring
BF51842C-1	55.3 L (2.0 cu. ft.)	100° to 1200 °C	38.1 x 38.1 x 38.1 cm (15 x 15 x 15 in)	71.1 x 73.7 x 83.8 cm (28 x 29 x 33 in)	B	208/240 V, 50/60 Hz 5800 W, 25 A	127 kg	No plug, no cable, requires hardwiring
BF51842BC-1**	55.3 L (2.0 cu. ft.)	100° to 1200 °C	38.1 x 38.1 x 38.1 cm (15 x 15 x 15 in)	71.1 x 73.7 x 83.8 cm (28 x 29 x 33 in)	B/OTC	208/240 V, 50/60 Hz 5800 W, 25 A	127 kg	No plug, no cable, requires hardwiring
BF51842PC-1	55.3 L (2.0 cu. ft.)	100° to 1200 °C	38.1 x 38.1 x 38.1 cm (15 x 15 x 15 in)	71.1 x 73.7 x 83.8 cm (28 x 29 x 33 in)	C	208/240 V, 50/60 Hz 5800 W, 25 A	127 kg	No plug, no cable, requires hardwiring
BF51842PBC-1	55.3 L (2.0 cu. ft.)	100° to 1200 °C	38.1 x 38.1 x 38.1 cm (15 x 15 x 15 in)	71.1 x 73.7 x 83.8 cm (28 x 29 x 33 in)	C/OTC	208/240 V, 50/60 Hz 5800 W, 25 A	127 kg	No plug, no cable, requires hardwiring
BF51842PFMC-1	55.3 L (2.0 cu. ft.)	100° to 1200 °C	38.1 x 38.1 x 38.1 cm (15 x 15 x 15 in)	71.1 x 73.7 x 83.8 cm (28 x 29 x 33 in)	C/FM	208/240 V, 50/60 Hz 5800 W, 25 A	127 kg	No plug, no cable, requires hardwiring
BF51842PBFMC-1	55.3 L (2.0 cu. ft.)	100° to 1200 °C	38.1 x 38.1 x 38.1 cm (15 x 15 x 15 in)	71.1 x 73.7 x 83.8 cm (28 x 29 x 33 in)	C/OTC/FM	208/240 V, 50/60 Hz 5800 W, 25 A	127 kg	No plug, no cable, requires hardwiring
BF51842PBFMCOMC1*	55.3 L (2.0 cu. ft.)	100° to 1200 °C	38.1 x 38.1 x 38.1 cm (15 x 15 x 15 in)	71.1 x 73.7 x 83.8 cm (28 x 29 x 33 in)	C/OTC/FM	208/240 V, 50/60 Hz 5800 W, 25 A	127 kg	No plug, no cable, requires hardwiring

\*Contains flowmeter option and RS485 communications port

\*\*No digital communications port option available

A, B, C: see details of control options, previous page

OTC: Over-temperature Control

FM: Flowmeter option

To add RS-485 Digital Communications Port to furnace model, add "COM" to model number before last letter in Cat. No. - e.g., BF51731COMC-1

**Ordering Information:** Required power cord and hardwiring not included

**Includes:** One two-part shelf (0.6 cu. ft. models have one shelf position at center position; 2.0 cu. ft. models have three shelf positions)

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