

# Thermo Scientific Lindberg/Blue M heavy-duty 1200 °C box furnaces

Unique internal construction and outer shell design that reduces external surface temperatures without compromising interior temperature uniformity



- Features individual heating elements at chamber top, bottom and sides for uniform heat distribution
- Unique Moldatherm ceramic fiber insulation to allow rapid heatup, recovery and cooldown rates. Swing-down door provides convenient loading platform
- Helically coiled, high-temperature alloy wire elements for extended service life
- High-temperature insulation in vestibule and floating plug door to minimize heat loss and improve temperature control
- Spring-loaded door holds door securely shut; door rests in horizontal position when open
- Sight glass for convenient observation of heated load during operation
- Refractory plate heating unit
- Long-life Platinel II thermocouple with 10 ft. compensated lead wire and polarized plug
- Rugged, heavy-duty Inconel® hearth plate supports load and protects the furnace from damage due to spillage (Model BF51542C)
- Heating element imbedded in Moldatherm insulation (Model BF51542C)

- Designed for operation on 208, or 240V 50/60 Hz, single-phase line
- Required power cord, hardwiring and interconnecting wiring are not included

### Control consoles for 1200°C box furnace:

- Control choices: A, B, choice of over temperature control (OTC) on select models – see page 6-7 for details
- Control console is fully wired and includes a solid-state power module, ON/OFF circuit breaker and thermocouple input jack

### Applications

- Ashing
- Fusion
- Ignitions
- Alloying
- Sintering
- Heat-treatment

Cat. No.	Capacity	Temp. Range	Interior (D x W x H)	Exterior (L x W x H)	Description	Electrical	Shipping Weight	Plug Type
BF51442C	9 L (0.32 cu. ft.)	100° to 1200 °C	35.6 x 19.5 x 13.3 cm (14 x 7.5 x 5.25 in)	50.8 x 50.8 x 62.2 cm (20 x 20 x 24.5 in)	With refractory plate heating element	208/240 V, 50/60 Hz 4800 W, 21A	66 kg (145 Lb.)	No plug, no cable, requires hardwiring
BF51542C	23 L (0.81 cu. ft.)	100° to 1200 °C	36.8 x 26.7 x 24.1 cm (14.5 x 10.5 x 9.5 in)	78.7 x 71.1 x 72.4 cm (31 x 28 x 28.5 in)	With Moldatherm heating element (four sides)	208/240 V, 50/60 Hz 6200 W, 26A	152 kg (335 Lb.)	No plug, no cable, requires hardwiring

**Ordering information:** Choice of controllers available, including 1200°C digital single-program/multiple-segment programmable controller and over-temperature control

**Required accessories:** Independent control console CC58114C. Required power cord and hardwiring not included

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

See page 7 for details on controllers

Cat. No.	Control	Electrical
CC58114C-1	A	208/240 V, 50/60 Hz, 30 A
CC58114PC-1	B	208/240 V, 50/60 Hz, 30 A
CC58114BC-1*	A, OTC	208/240 V, 50/60 Hz, 30 A
CC58114PBC-1**	B, OTC	208/240 V, 50/60 Hz, 30 A

\*Please note: connected furnace requires 2<sup>nd</sup> thermocouple for OTC (installed when ordered together)

\*\*No digital communications port option available

To add RS-485 digital communications port to furnace model, add "COM" to model number before last letter in Cat. No. – e.g., CC58114COMC-1



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