

1100°C Moldatherm® Box Furnaces

Lindberg/Blue M Moldatherm 1100°C box furnaces feature a choice of microprocessor-based single setpoint or programmable control instrumentation. Available in four popular chamber sizes to meet the most demanding laboratory applications, these furnaces include unique insulation and heating element composites to minimize outer surface temperatures while maintaining uniform heat distribution within the chamber.

Features and Benefits

- Two control options
- Controlled heat-up rate eliminates thermal shock to materials
- Quick heat-up and cool-down rates
- Energy efficient Moldatherm insulation with embedded heating elements
- Unique double-wall construction 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" dia., top) and air inlet (.375" dia., rear) for inert atmosphere exchange.
 Will experience some leakage at door
- Removable and replaceable

Moldatherm hearth plate supports load and prevents damage due to spillage

- Main power on/off switch on control panel
- Safety door switch to interrupt power to heating element when door is opened; protects heating element and minimizes exposure to end-user
- Available in 120V and 208/240V configurations

Digital, Single Setpoint Controller

- Microprocessor-based control with selectable self-tuning feature sets best control parameters for the thermal process. PID control (proportional, integral, derivative) prevents overshoot
- Single segment, single setpoint, 1 ramp to setpoint
- Adjustable high limit overtemperature protection
- Simultaneous LED display of actual temperature vs. setpoint
- May be configured to display temperature in either °C or °F
- UL approval

Digital Single Program, Multiple Segment Programmable Controller

- Microprocessor-based control with selectable self-tuning feature sets best control parameters for the thermal process. PID control (proportional, integral, derivative) prevents overshoot
- Single program with multiple segments for ramp (up and down) and dwell (timed hold) temperature control. See page 35 for more information
- Adjustable high limit overtemperature protection
- Simultaneous LED display of actual temperature vs. setpoint
- May be configured to display temperature in either °C or °F
- UL approval

Optional RS485 Digital Communications Port

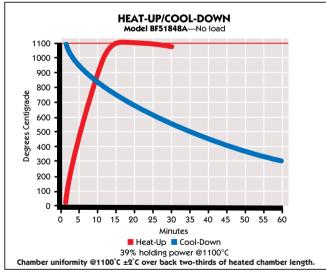
RS485 Digital communications port available as an option. Allows controller to be connected to a PC for remote monitoring and control of the furnace. Up to 30 units can be connected to one PC. Please see page 35 for ordering information and additional options

1100°C Moldatherm® Box Furnaces, Temperature Range 100°C to 1100°C

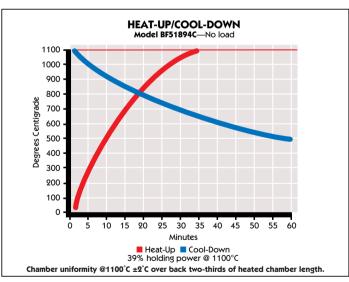
Integrated Control	Electrical Volts, Hz, 1Ø	Watts	Interior Dimensions H x F-B x W in" (mm)	Exterior Dimensions H x F-B x W in" (mm)	Ship Weight lbs (kg)
.99 liters)					
Digital/OTP	120V, 50/60 Hz	1800	4" (101.6) x 8" (203.2) x 4" (101.6)	17.5" (444.5) x 20" (508) x 15" (381)	55 (25)
Digital/OTP	208/240V, 50/60 Hz	1800	4" (101.6) x 8" (203.2) x 4" (101.6)	17.5" (444.5) x 20" (508) x 15" (381)	55 (25)
Multiple Seg/1 Prog/OTP	120V, 50/60 Hz	1800	4" (101.6) x 8" (203.2) x 4" (101.6)	17.5" (444.5) x 20" (508) x 15" (381)	55 (25)
Multiple Seg/1 Prog/OTP	208/240V, 50/60 Hz	1800	4" (101.6) x 8" (203.2) x 4" (101.6)	17.5" (444.5) x 20" (508) x 15" (381)	55 (25)
(5.3 liters)					
Digital/OTP	120V, 50/60 Hz	1800	6" (152.4) x 9" (228.6) x 6" (152.4)	21.5" (546.1) x 21" (533.4) x 17" (431.8)	110 (50)
Digital/OTP	208/240V, 50/60 Hz	1800	6" (152.4) x 9" (228.6) x 6" (152.4)	21.5" (546.1) x 21" (533.4) x 17" (431.8)	110 (50)
Multiple Seg/1 Prog/OTP	120V, 50/60 Hz	1800	6" (152.4) x 9" (228.6) x 6" (152.4)	21.5" (546.1) x 21" (533.4) x 17" (431.8)	110 (50)
Multiple Seg/1 Prog/OTP	208/240V, 50/60 Hz	1800	6" (152.4) x 9" (228.6) x 6" (152.4)	21.5" (546.1) x 21" (533.4) x 17" (431.8)	110 (50)
8.4 liters)					
Digital/OTP	208/240V, 50/60 Hz	3500	9" (228.6) x 14" (355.6) x 9" (228.6)	26" (660.4) x 25.75" (654.04) x 21" (533.4)	130 (59)
Multiple Seg/1 Prog/OTP	208/240V, 50/60 Hz	3500	9" (228.6) x 14" (355.6) x 9" (228.6)	26" (660.4) x 25.75" (654.04) x 21" (533.4)	130 (59)
2.5 liters)					
Digital/OTP	208/240V, 50/60 Hz	5600	12" (304.8) x 18" (457.2) x 12" (304.8)	28" (711.2) x 30" (762) x 24" (609.6)	185 (84)
Multiple Seg/1 Prog/OTP	208/240V, 50/60 Hz	5600	12" (304.8) x 18" (457.2) x 12" (304.8)	28" (711.2) x 30" (762) x 24" (609.6)	185 (84)
	Control 1.99 liters) Digital/OTP Digital/OTP Multiple Seg/1 Prog/OTP Multiple Seg/1 Prog/OTP (5.3 liters) Digital/OTP Digital/OTP Multiple Seg/1 Prog/OTP Multiple Seg/1 Prog/OTP 18.4 liters) Digital/OTP Multiple Seg/1 Prog/OTP 2.5 liters) Digital/OTP	Control Volts, Hz, 16 1.99 liters) 120V, 50/60 Hz Digital/OTP 208/240V, 50/60 Hz Multiple Seg/1 Prog/OTP 120V, 50/60 Hz Multiple Seg/1 Prog/OTP 208/240V, 50/60 Hz (5.3 liters) Digital/OTP 120V, 50/60 Hz Multiple Seg/1 Prog/OTP 120V, 50/60 Hz Multiple Seg/1 Prog/OTP 120V, 50/60 Hz Multiple Seg/1 Prog/OTP 208/240V, 50/60 Hz 18.4 liters) Digital/OTP 208/240V, 50/60 Hz Multiple Seg/1 Prog/OTP 208/240V, 50/60 Hz 2.5 liters) Digital/OTP 208/240V, 50/60 Hz	Control Volts, Hz, 16	Control Volts, Hz, 16	L99 liters

Note: All models include 10' power cord except 1.5 cu. ft. models which require customer supplied power cord or hard wiring. Contact your sales representative for CE Models.

Note: Use with inert atmosphere will exhibit some leakage.



Model BF51848A Heat-Up/Cool-Down, No Load



Model BF51894C Heat-Up/Cool-Down, No Load

Actual performance may vary depending on load, chamber size, sample placement, ambient temperature and environmental conditions.

