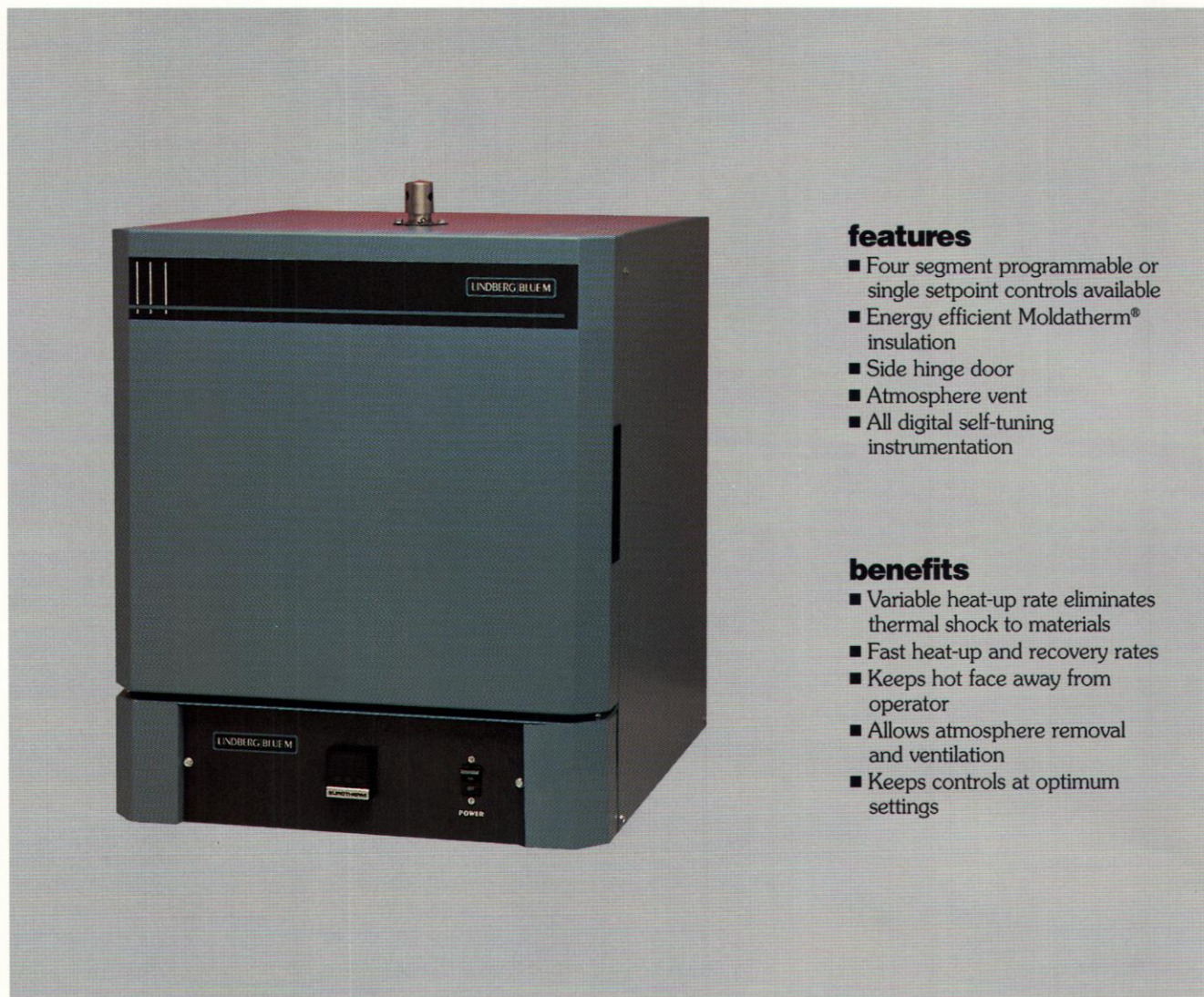


Lindberg/Blue M 1100 C Moldatherm® box furnaces

These new designed laboratory box furnaces, featuring advanced single setpoint or programmable control instrumentation and sturdy construction, deliver high performance at an economical price.



features

- Four segment programmable or single setpoint controls available
- Energy efficient Moldatherm® insulation
- Side hinge door
- Atmosphere vent
- All digital self-tuning instrumentation

benefits

- Variable heat-up rate eliminates thermal shock to materials
- Fast heat-up and recovery rates
- Keeps hot face away from operator
- Allows atmosphere removal and ventilation
- Keeps controls at optimum settings

...on the leading edge of temperature technology



Moldatherm Box Furnace



Waterbath



1200 C Box Furnace



Mechanical Convection Oven



1200 C Tube Furnace
and Controller

These versatile Moldatherm® Box Furnaces have been designed to meet the most rigid laboratory specifications. Double shell construction and Moldatherm, Lindberg/Blue M's unique insulation and heating element composite, assists in maintaining a low outer furnace temperature, as well as providing a uniform heat distribution within the furnace chamber.

Furnace Models 51728, 51748, 51766, and 51794 feature a dual display single setpoint digital control instrument. Furnace Models 51828, 51848, 51866, and 51894 feature a four segment programmable control instrument with two ramps and two dwells.

Standard furnace features include: side hinge door, designed to keep the furnace hot face away from the end user; and an atmosphere vent, which allows for atmosphere removal and ventilation. A power on/off switch is located on the furnace control panel. A safety interlock system disconnects the power to the furnace heating elements when the door is opened during furnace operation.

uses

- Ashing — organic and inorganic
- Heat treatment (annealing, tempering, hardening)
- Melting
- Fusing/Bonding
- Drying
- Digestion of samples
- Model 51894 meets Florida Department of Transportation Standard FM-5-544 for Asphalt Testing.

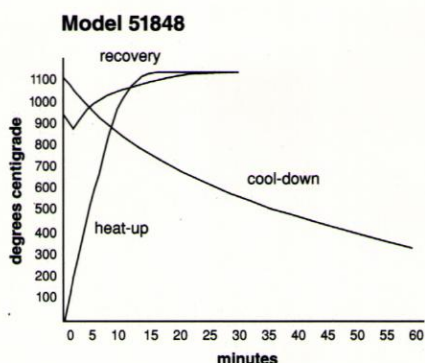
specifications UL and CSA applied for

Model	Chamber Size W x H x D Inches	External Dim. W x H x D Inches	Control	Watts	AC Volts Single Phase 50/60 Hz	Shipping Weight lbs.
51748*	4 x 4 x 8	15 x 17.5 x 20	Digital; Single Setpoint	1800	120/208/240	50
51766	6 x 6 x 9	17 x 21.5 x 21	Digital; Single Setpoint	2400	120/208/240	110
51794	9 x 9 x 14	21 x 26 x 25.75	Digital; Single Setpoint	3500	208/240	150
51728	12 x 12 x 18	24 x 28 x 30	Digital; Single Setpoint	5600	208/240	165
51848*	4 x 4 x 8	15 x 17.5 x 20	Digital; Programmable	1800	120/208/240	50
51866	6 x 6 x 9	17 x 21.5 x 21	Digital; Programmable	2400	120/208/240	110
51894	9 x 9 x 14	21 x 26 x 25.75	Digital; Programmable	3500	208/240	165
51828	12 x 12 x 18	24 x 28 x 30	Digital; Programmable	5600	208/240	165

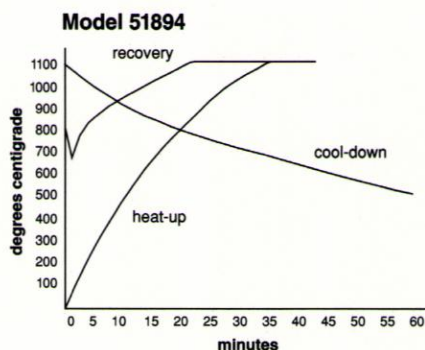
*Power cord included and installed.

The laboratory furnaces described in this bulletin are just a few of the high quality constant temperature controlled products Lindberg/Blue M has produced for laboratory and scientific applications. See your laboratory supply dealer or write to Lindberg/Blue M for more information on our hot plates; box, tube, and crucible furnaces; ovens; incubators; baths; environmental chambers and refrigerated units.

heat and cool rates



Heat-up and cool-down: No load
Load recovery test material: 350 grams Alumina
39% holding power at 1100 C



Heat-up and cool-down: No load
Load recovery test material:
1,374 grams Alumina
39% holding power at 1100 C



four segment programmable controller

Lindberg/Blue M's 51800 Series box furnaces incorporate a PID microprocessor-based programmable temperature controller. The controller provides 4 programmable segments, consisting of 2 ramps (up and down) and 2 dwells (timed holds). This instrument provides the versatility and control accuracy to meet your critical process requirements. In addition, the controller incorporates an advanced self-tuning feature that automatically sets the best control parameter values during the furnace operation. Each instrument simultaneously indicates setpoint and process temperatures, and can be configured for degrees C or F.

single setpoint digital controller

Lindberg/Blue M's 51700 Series box furnaces feature a self-tuning single setpoint control instrument. Actual vs. setpoint temperature is displayed simultaneously for easy reference during furnace operation. Temperature readings in degrees C and F.

options

The digital programmable controller is available with optional RS-232 or RS-422 communications to allow modification and interrogation of all instrument control and configuration parameters from a remote computer. Inert atmosphere inlet ports and additional chamber vent pipes are also available. A stainless steel shelf assembly is another popular optional accessory. Contact Lindberg/Blue M for further information on any of these options.

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All specifications are subject to change without notice. All dimensions are approximate.

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