

1200 C box furnaces

Versatile new box furnaces incorporate the latest technological advances in heating elements, insulation and temperature control. Furnace and control systems are incorporated in a single space saving cabinet. Popular applications include ash determinations, drying, ignitions, fusions, enameling, heat treating, melting, annealing.

features

- digital programmable temperature control
- Moldatherm® insulation with patented LGO® heating elements
- removable shelves

benefits

- precision temperature control
- exceptional temperature uniformity and energy efficiency
- flexibility in the use of chamber work area



Bringing you over 80 years of innovative furnace design

...on the leading edge of temperature technology



Moldatherm Box Furnace



Waterbath



1200 C Box Furnace



Mechanical Convection Oven



1200 C Tube Furnace
and Controller

LINDBERG/BLUE M 1200 C box furnaces

Ideal for ash determinations, drying, ignitions, fusions, enameling, heat treating, melting, annealing and tempering.

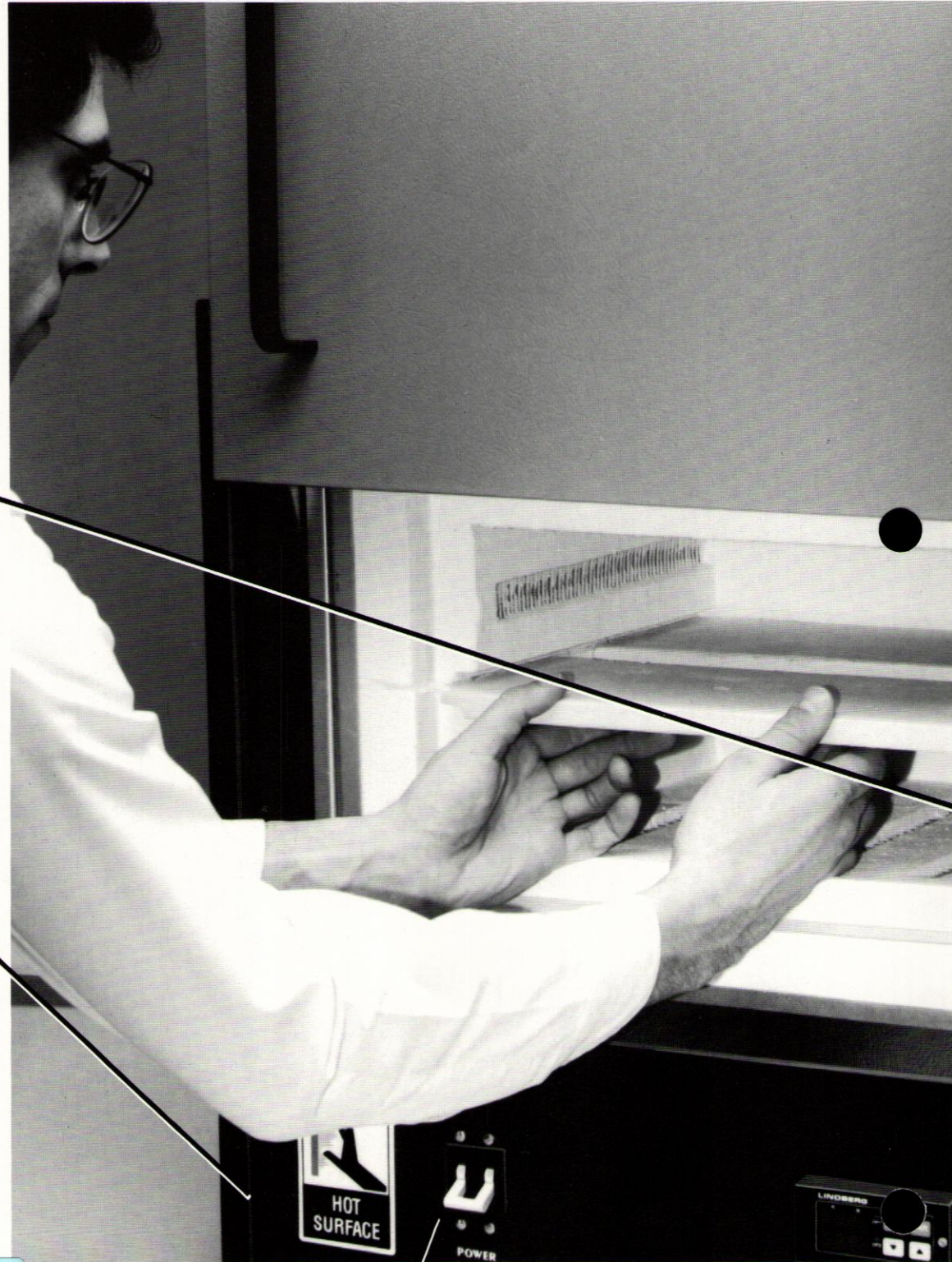
The new Lindberg/Blue M 1200 C laboratory box furnace line is a highly reliable, cost-and-energy efficient answer for those who require accurate, high temperature performance. It incorporates furnace chamber and control instrumentation in a single space saving cabinet and is designed for continuous operation to 1200 C.

Moldatherm hearth plate

Hearth plates are constructed of Moldatherm insulation.

Removable control panel

The 1200 C is designed to simplify maintenance and servicing. The control panel has side latches which, when released, free the modular control unit for easy removal.



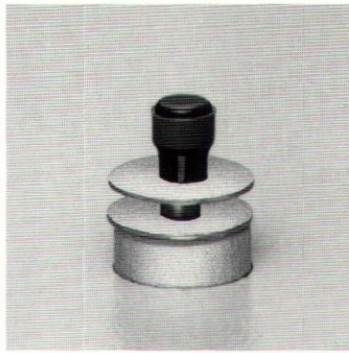
Power switch

Furnace shown has been completely

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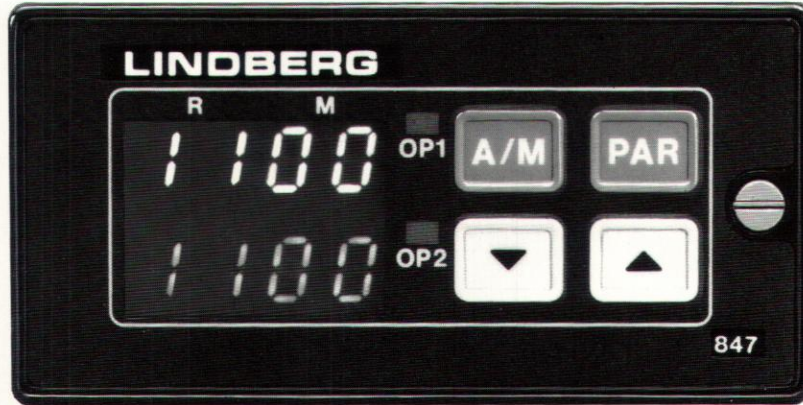
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Adjustable vent port

An adjustable vent has been built into the top of the 1200 C box furnace cabinet to provide an efficient and convenient method of venting the furnace chamber.

Door on larger 1200 C model (51842) swings up and out of the way. A side swing door is used on the smaller unit (51732).



Digital control The standard four segment programmable temperature control provides a two ramp/two dwell control capability. Two digital displays simultaneously indicate actual furnace temperature and setpoint temperature. In addition, an optional 16 segment programmable control (Option P) is available.

Removable shelves

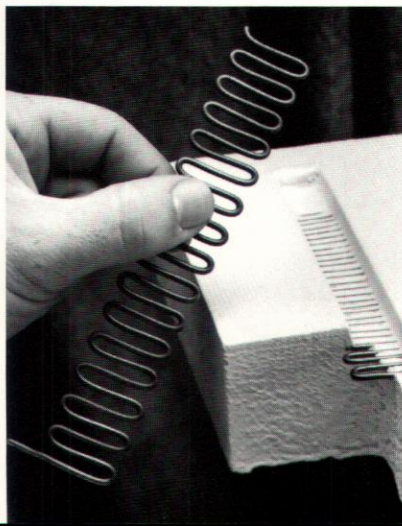
The 51732 series furnace includes a one-position, two-part removable shelf.

The 51842 series furnace includes a 3-position, two-part removable shelf.

Safety door disconnect switch

A safety door disconnect switch cuts the power to the furnace elements when the door is opened.

Inert atmosphere/air injection port (rear of furnace)



Option P

(Programmable Temperature Controller)

This option provides four sixteen segment programs, consisting of eight ramps (scrolls) and eight dwells (timed holds) per program. This option enables you to enter multiple profiles by linking the four sixteen segment programs together into a 64 segment program. This means you can ramp to multiple setpoint levels, holding for variable time-periods at each level. Ramp rate, dwell time, program segment and percent output power are all displayed with a digital instrument readout. A holdback feature is included to allow the user to set a process vs setpoint deviation temperature value. When this value is exceeded, the instrument holds the program to allow process temperature time to catch up. An advanced self-tuning feature is also included.

Option B

(Excess Temperature Protection)

A completely redundant excess temperature protective circuit provides positive protection of both furnace and load in the event of failure in the primary control circuit. This option consists of a separate analog setting instrument with manual reset pushbutton, magnetic contactor and independent thermocouple.

Patented LGO heating elements

Lindberg's patented LGO (Light Gauge Overbend) heating elements transfer radiant heat energy to the work chamber and load efficiently and economically. Elements are imbedded in Moldatherm. Lindberg's exclusive lightweight vacuum formed ceramic fiber insulation that provides exceptional temperature uniformity, fast heat-up and cool-down response.

Platinel II thermocouple

A Platinel II thermocouple is a standard design feature which provides long term stability.

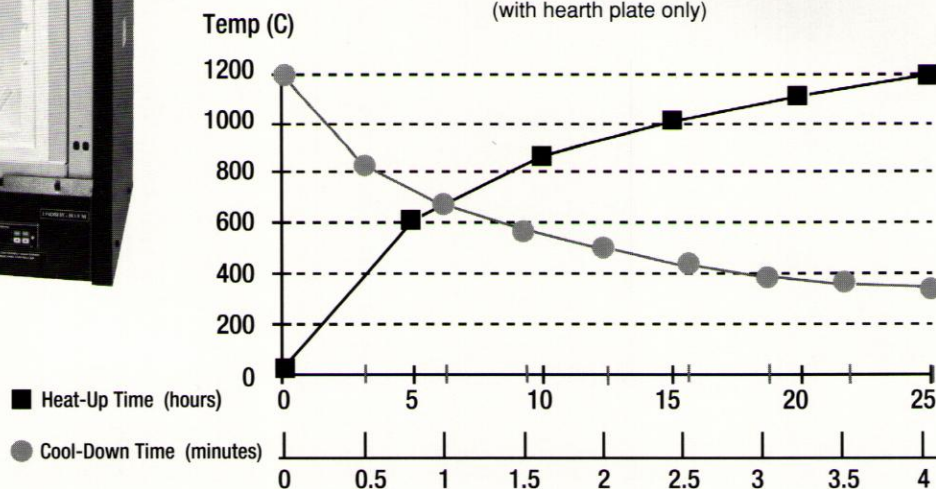
cooled and power disconnected.

1200 C box furnaces



Model 51842-P-B

1200 C Box Furnace Heat-Up
and Cool-Down Rate
(with hearth plate only)



Furnace System Specifications

Model	51732	51732-P	51732-B	51732-P-B
Chamber Size:	13W x 7H x 11D	13W x 7H x 11D	13W x 7H x 11D	13W x 7H x 11D
Maximum Temperature:	1200 C	1200 C	1200 C	1200 C
Heating Elements:	LGO/Moldatherm	LGO/Moldatherm	LGO/Moldatherm	LGO/Moldatherm
Overall Dimensions:	24W x 27H* x 23D	24W x 27H* x 23D	24W x 27H x 23D	24W x 27H x 23D
Power:	4500 Watts	4500 Watts	4500 Watts	4500 Watts
Programmable Control:	(4) Segment	(16) Segment	(4) Segment	(16) Segment
Excess Temp. Protect:	Not included	Not included	Included	Included
Thermocouple:	Platinel II	Platinel II	Platinel II	Platinel II
Voltage:	208 /240	208 /240	208 /240	208 /240
Hertz:	50/60, Single Phase	50/60, Single Phase	50/60, Single Phase	50/60, Single Phase
Shipping Weight:	120 lbs	120 lbs	120 lbs	120 lbs.
Model	51842	51842-P	51842-B	51842-P-B
Chamber Size:	15W x 15H x 15D	15W x 15H x 15D	15W x 15H x 15D	5W x 15H x 15D
Maximum Temperature:	1200 C	1200 C	1200 C	1200 C
Heating Elements:	LGO/Moldatherm	LGO/Moldatherm	LGO/Moldatherm	LGO/Moldatherm
Overall Dimensions:	29W x 33H x 28D	29W x 33H x 28D	29W x 33H x 28D	29W x 33H x 28D
Power:	5800 Watts	5800 Watts	5800 Watts	5800 Watts
Programmable Control:	(4) Segment	(16) Segment	(4) Segment	(16) Segment
Excess Temp. Protect:	Not included	Not included	Included	Included
Thermocouple:	Platinel II	Platinel II	Platinel II	Platinel II
Voltage:	208 /240	208 /240	208 /240	208 /240
Hertz:	50 /60, Single Phase	50 /60, Single Phase	50 /60, Single Phase	50 /60, Single Phase
Shipping Weight:	275 lbs	275 lbs	275 lbs	275 lbs

* Height with door open vertically is 36 inches

Furnace Model 51842 features a side swing door, and Model 51732 features a vertical hinged door.

Furnaces include one, two-part shelf.

All dimensions are in inches. All specifications are subject to change.

The 1200 C furnace described in this bulletin is just one 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 and environmental chambers.

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