

Mini-Mite 1100 C tube furnace from Lindberg/Blue M®

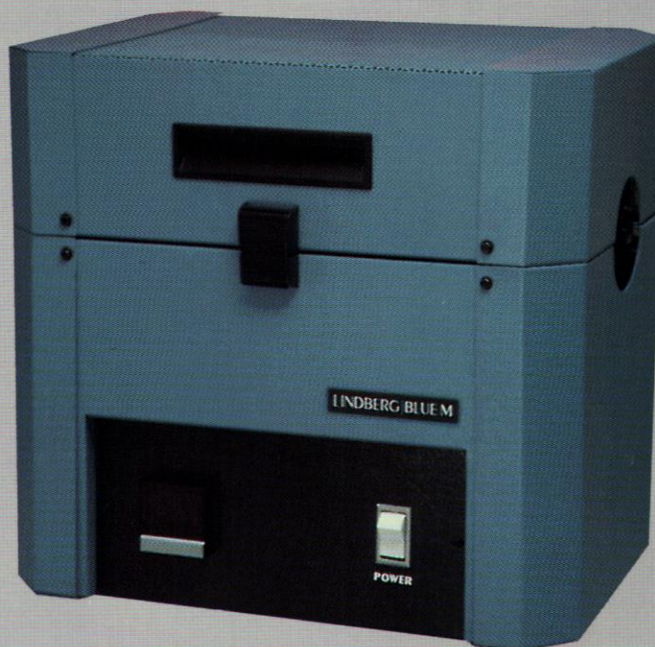
Lindberg/Blue M's Mini-Mite™ tube furnaces include advanced digital controller and programmable controller options with sturdy construction to deliver high performance at economical prices.

features

- Four segment programmable or single setpoint controllers available
- Energy efficient Moldatherm® insulation
- Chamber and process temperatures displayed
- Split-hinge design
- Self-tuning instrumentation
- Ready to plug in and operate

benefits

- Fast heat-up and recovery rates save time and energy
- Low outer shell temperature
- Compact, portable, light in weight
- Eliminate temperature shock to materials through controlled heat-up rate
- Minimal maintenance



...on the leading edge of temperature technology



Moldatherm Box Furnace



Waterbath



1200 C Box Furnace



Mechanical Convection Oven



1200 C Tube Furnace
and Controller

The Lindberg/Blue M Mini-Mite tube furnace line is one of the most popular laboratory tube furnaces ever developed. The new and improved Mini-Mite furnaces described in this bulletin incorporate features that make it an outstanding value for today's most complex and demanding laboratory applications.

general construction

The Mini-Mite furnace incorporates a heat reflecting inner shell to create two insulating air spaces, providing low outer shell temperatures. The use of Moldatherm ceramic fiber insulation with embedded heating elements provides a unit with exceptionally fast heat up and recovery capabilities. The use of Moldatherm saves energy and increases element life as well.

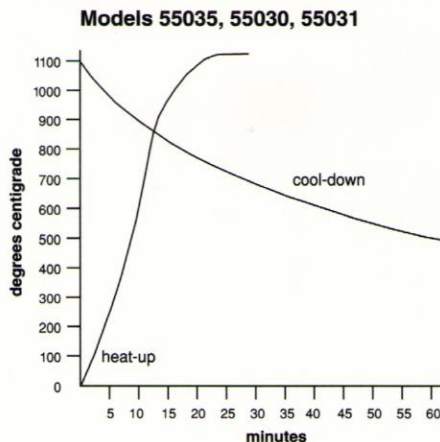


programmable controller

The Model 55035 tube furnace incorporates a microprocessor-based programmable temperature controller. The controller provides 4 programmable segments, consisting of 2 ramps (up or 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 set point and process temperatures and can be configured for degrees C or F.

Lindberg/Blue M Model 55030 features a digital single setpoint control instrument, displaying both actual and set point temperatures simultaneously. This instrument is self-tuning, and may be configured to read in either degrees C or F.

heat and cool rates



Heat and cool rates measured in center of 1" OD mullite process tube. Ends of tube plugged.

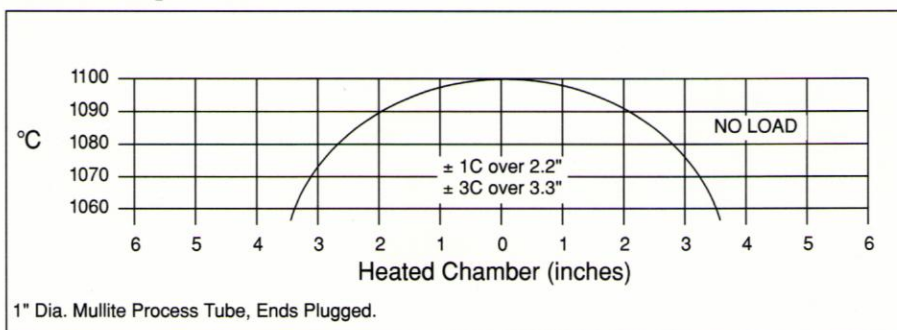
specifications

UL and CSA applied for

Models	55035, 55031 and 55030
Heated Length	12"
Vestibule ID	Bored to accept 1" O.D. process tube (not included)
External Dimensions (W x H x L)	11x15x16 (in.) 28x38x40.6 (cm)
Maximum Temperature	1100 C
Watts	800
Voltage	120/208/240 VAC*
Hertz	50/60
Shipping Weight	35 lbs.

*Units are equipped with 120 V power cord.
Power cord may be removed and replaced with a customer supplied power cord for operation on 208/240 V.

furnace profile



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.

The Model 55031 includes the same unique construction features of the Model 55030 and 55035, but comes without integral furnace control and requires the use of an external power controller. The temperature on this unit can be changed by varying voltage to the furnace using Lindberg/Blue M 58011 power controller or a variable transformer. Thermocouple and thermocouple lead wire are available accessory items.

uses

- Heat treatment (annealing, sintering)
- Preheater for reaction gases
- Carbon analysis
- Ashing — organic and inorganic
- High temperature reactions
- Pyrohydrolysis reactions

control instrumentation

55030	Digital single setpoint control.
55031	Control not included.
55035	Digital four segment. Two ramp, two dwell.