



The 1100°C Mini-Mite Tube Furnace includes integrated digital control, single setpoint or multiple segment programmable.

## Applications

- Pyrolysis
- Thermal Expansion
- Calibration
- Sintering
- Viscosity Testing

## 16 Mini-Mite™ 1100°C Tube Furnaces (Single Zone)

Mini-Mite™ 1100°C Tube Furnaces offer a selection of control instrumentation including multiple segment programmable or single setpoint control. All models feature energy efficient Moldatherm® insulation for quick heat-up and cool-down.

### Features

- Compact, portable and lightweight design
- Split-hinge design simplifies loading and unloading
- Main power on/off switch on control panel
- Safety switch disconnects power to heating element when furnace is opened
- Long life type “K” thermocouple

### Digital, Single Setpoint Controller

- Microprocessor-based self-tuning PID control (proportional, integral, derivative) provides optimum thermal process without 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

### Digital Single Program, Multiple Segment Programmable Controller

- Microprocessor-based self-tuning PID control (proportional, integral, derivative) provides optimum thermal process without 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

### 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 Mini-Mite™ Split-Hinge, Single Zone, Integrated Controller, Temperature Range 100 to 1100°C**

Furnace Model No.	Electrical Volts, Hz, 1Ø	Watts	Integral Controller	Exterior Dimensions H x F-B x W in" (mm)	*Process Tube Diameter, in" (mm)	Heated Length in" (mm)	Ship Weight lbs (kg)
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**Digital, Single Segment Control, 1100°C**

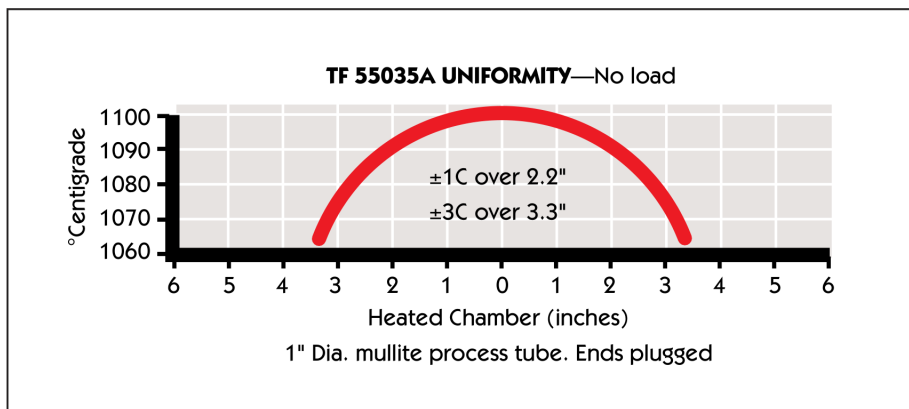
TF55030A	120V, 50/60 Hz	800	1 Segment	15" (381) x 11" (279.4) x 16" (406.4)	1" (25.4)	12" (304.8)	35 (16)
TF55030C	208/240V, 50/60 Hz	800	1 Segment	15" (381) x 11" (279.4) x 16" (406.4)	1" (25.4)	12" (304.8)	35 (16)

**Digital, Multi Segment Programmable, 1100°C**

TF55035A	120V, 50/60 Hz	800	16 Segment	15" (381) x 11" (279.4) x 16" (406.4)	1" (25.4)	12" (304.8)	35 (16)
TF55035C	208/240V, 50/60 Hz	800	16 Segment	15" (381) x 11" (279.4) x 16" (406.4)	1" (25.4)	12" (304.8)	35 (16)

**\*Process Tubes** These furnaces are designed for use with a variety of process tubes including alumina, mullite, quartz and metallic. For information on process tubes contact your process tube supplier or call your Lindberg/Blue M sales representative.

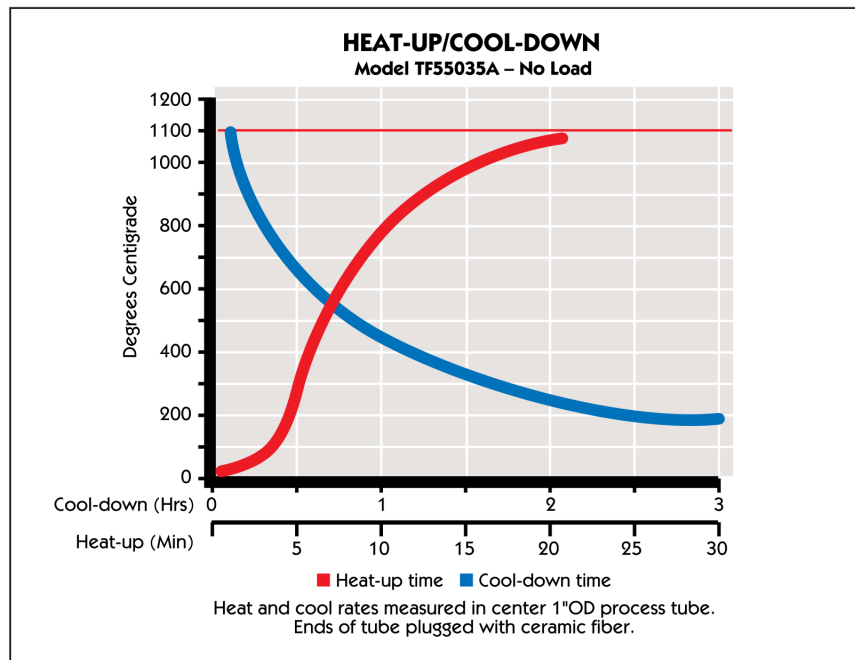
**Note:** All models include 10' power cord.



Model TF55035A Uniformity Profile, No Load



Model TF55035A Mini-Mite Tube Furnace, 1100°C, shown with digital multiple segment programmable control.



Model TF55035A Heat-Up/Cool-Down

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