



EN SEARCH

MENU

# PRODUCTS

Innovation and continuous improvement is our mission. To provide our customers with the best applicable solution is our goal.

## LM-MODEL

TMAX UP TO  
**1340 °C**

### LABORATORY CHAMBER FURNACE, ASW INSULATION, TMAX 1340°C, 1,5 - 18,4 L

#### Applications:

annealing, ashing, calcination, firing, fusion, heat treatment, melting, oxydation, pre-heating, sample preparation for spectroscopy, shrink fitting, sintering, soldering, stress-relieving, tempering

#### The most important characteristics

- Perfect for heat treatment and sintering
- Also used in laboratories for numerous processes
- Fiber insulated laboratory muffle furnace
- Compact muffle furnace
- Max. operating temperature 1200°C and 1340°C
- 90° tiltable for horizontal/vertical operation with version LM-112
- Various temperature controllers available
- Wide range of capabilities
- Very light weight
- High quality - made in Germany

- Easy to handle

### We make it possible

Linn High Therm is specialized in customizing its products to customer's needs. Please let us know if you desire any modifications.

### Options

- Exhaust device
- Gas flushing
- Post combustion burner
- Program controller
- Screen recorder

## PRODUCT SPECIFICATIONS

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### Sizes

model	liters	Inside dimensions mm (wxdxh)	T. max °C	heating power kW
LM-112	1,5	100 x 150 x 100	1200	0,6
LM-312	5,0	175 x 300 x 95	1340	2,8
LM-412	8,4	175 x 320 x 150	1340	3,2
LM-512	18,4	200 x 400 x 230	1340	6,4

### Technical details

#### Furnace housing

Housing as well as door consist of a lightweight sheet steel construction. As protection against corrosion they are coated with structural lacquer. The chosen colors blue/white give a nice appearance to the whole furnace.

#### Insulation

Around the heating muffle made of silicon-carbide consecutively fiber mats, fiber insulation boards and mineral wool boards are layered. Due to the fiber insulation materials, high thermal power at

low energy consumption is achieved. This also results in a low furnace weight. In order to guarantee an easy charging, insert boards made of ceramic are included in the scope of delivery.

## Heating

The surface of the SiC muffle is wired with Kanthal-A1 respectively APM heating spirals, providing a constant temperature distribution inside the chamber. In connection with the insulation extremely short heating up and cooling down cycles at low heating power will be obtained.

## Control unit

The control system is installed at the side of the furnace part. The furnace is delivered with the following described:

- Temperature program controller G400
- 2- or 3-setpoint controller with PID behavior
- Logic output
- One heating ramp – freely programmable velocity/ramp function
- Display of actual value
- Self optimization prevents overshooting
- Separation of control level and configuration level
- Alarm signal in case of thermocouple fracture
- Timer with turn-on & turn-off delay (dwell time)

## PRODUCT PROPERTIES

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<b>Product Line:</b>	type series
<b>Operation Mode:</b>	Batch
<b>Construction Types:</b>	Furnace
<b>Designs:</b>	Chamber furnace, Laboratory furnace
<b>Temperature Max (°C):</b>	1340
<b>Heatings:</b>	electrical
<b>Heatingmethods:</b>	resistance
<b>Atmospheres:</b>	Air
<b>Applications:</b>	annealing, ashing, calcination, firing, fusion, heat treatment, melting, oxydation, pre-heating, sample preparation for spectroscopy, shrink fitting, sintering, soldering, stress-relieving, tempering



LM-117



LM-217

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