



Muffle Furnace LD-LMF-H30

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Overview

LMF-H30 model of Muffle Furnace is a microprocessor controlled furnace having unique electronic design with user friendly operating menu in 4 line display for easy operation. It uses phase angle firing method for slowing down the inevitable aging of SiC heating elements, has its own unique software and is accurate in temperature controlling and measuring using S type thermocouple. Crafted for minimal space requirement in the laboratory, it is equipped with instantaneous energy consumption indicator, total working hour counter, control unit overheating sensor etc. and is ideal for maximum and continuous working temperature of 1550 °C.

Features:

- PID controller
- LCD display that shows current and target temperature
- Optimum insulation properties
- 4, 8, 16 step heating programs available
- SiC heating elements horizontally aligned next to the side walls
- Accurate temperature measurement and control using S type of thermocouple
- Durable inside lining made of high quality light insulating bricks and ceramic fibre board
- Dual shell housing for low outer surface temperature
- Current limit control for safe operation
- High cold start heating rate
- Uses phase angle firing method for slowing down the aging of SiC heating elements
- Provision of sound warning as the step changes and at the end of the program
- Equipped with step indicator
- Instantaneous energy consumption indicator
- Step indicator
- Total working hour counter
- Descriptive error indicator
- Control unit over heating sensor
- Open door sensor
- Provision of automatic power cutoff to the heating element if the control unit/ control card is over heated
- User friendly operating menu

Specifications:

Power	8.194 W
Chimney	Standard without fan
Display	4 x 20" LCD
Capacity	9 L
Net Weight	66 kg
Gross weight	87 kg
Max. Current	2 x 19 A

Thermal Rate	3 °C - 20 °C
Heating Program	4 step
Heating element	SiC (Silicon Carbide)
Housing Coating	Epoxy powder coating
Housing Material	Steel Sheet
Max. Temperature	1550 °C
Program Memories	4
Thermocouple Type	S Type
Burst Heating Mode	Yes
Lockable Door Handle	Sideways
Measurement Accuracy	± 1 °C
Skip the Waiting Step	Yes
Door Insulation Material	Ceramic Fibre Board
Heating Element Placement	Horizontally aligned next to the side walls
Inner Insulation Material	Ceramic Fibre Board
Auto Start at Certain Date	Yes
Gross Dimension (W x H x D)	630 x 706 x 894 mm
Show Remaining Waiting Time	Yes
Temperature Control Accuracy	± 1 °C (can vary at low temperatures)
Front Face Insulation Material	Insulating Fire Brick
Inner Chamber Dimension (W x H x D)	200 x 180 x 300 mm
Inner Volume Temperature Homogeneity	± 10 °C
Product Outer Dimension (W x H x D)	570 x 646 x 634 mm