



Muffle Furnace LD-LMF-B51

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Overview

LMF-B51 model of Muffle Furnace is a microprocessor controlled furnace with steel sheet housing material and is efficiently designed for minimal space requirement in the laboratory. With heating elements such as Fe-Cr-Al embedded into bricks, K and S type thermocouple and optimum insulation properties, it is ideal for maximum or continuous working temperature of 1100°C. It is accurate in measuring and controlling the temperature and is equipped with instantaneous energy consumption indicator, calculator for average working temperature and descriptive error indicator.

Features:

- PID controller
- LCD display that shows current and target temperature
- Optimum insulation properties
- 2, 4, 8 and 16 step heating programs available
- Fe-Cr-Al heating element embedded in brick walls
- Accurate measurement and control of temperature using K and S type thermocouple
- Second thermocouple for different adjustable purposes
- Durable inside lining made of light insulating bricks
- Dual shell housing for low outer surface temperature
- Steel sheet housing material
- Insulating fire brick as inner and front face insulation material
- Ceramic fibre board as door insulation material
- Quartz tube used to protect heating element
- Provision of audio warning as the step changes and at the end of the program
- Provision of automatic power cut-off to the heating elements and alert if the control unit/control card is over heated
- Instantaneous energy consumption indicator
- Calculator for average working temperature
- Descriptive error indicator
- User friendly menu

Specifications:

Power	7.500 W
Chimney	Standard
Capacity	40 L
Net Weight	112 kg
Gross weight	136 kg
Max. Current	3 x 11 A
Thermal Rate	3 °C - 20 °C
Heating Program	4 step

Heating element	Fe-Cr-Al
Housing Coating	Epoxy powder coating
Housing Material	Steel Sheet
Max. Temperature	1100 °C
Program Memories	4
Thermocouple Type	K Type
Lockable Door Handle	Sidewards
Measurement Accuracy	± 1 °C
Door Insulation Material	Ceramic Fibre Board
Heating Element Placement	Embedded into brick walls
Inner Insulation Material	Insulating Fire Brick
Gross Dimension (W x H x D)	690 x 1000 x 845 mm
Temperature Control Accuracy	± 1 °C (can vary at low temperatures)
Front Face Insulation Material	Insulating Fire Brick
Element Heating Element Protection	Quartz Tube
Inner Chamber Dimension (W x H x D)	300 x 300 x 445 mm
Inner Volume Temperature Homogeneity	± 10 °C
Product Outer Dimension (W x H x D)	630 x 785 x 840 mm