



Muffle Furnace LD-LMF-E43

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Muffle Furnace LD-LMF-E43

Overview

LMF-E43 model of Muffle Furnace is microprocessor controlled furnace with molded ceramic fibre insulation ensuring minimum heat loss. It is accurate, reliable and efficiently designed for minimal space requirement in the laboratory and is equipped with instantaneous energy consumption indicator, calculator for average working temperature, total working hour counter and descriptive error indicator. With abrasion resistant body, heating elements Fe-Cr-Al embedded into bricks, S type thermocouple, it is ideal for maximum and continuous working temperature of 1300 °C.

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	4.500 W
Chimney	Standard
Capacity	20 L
Net Weight	81 kg
Gross weight	101 kg
Max. Current	2 x 10 A
Thermal Rate	3 °C - 20 °C
Heating Program	16 step

Heating element	Fe-Cr-Al
Housing Coating	Epoxy powder coating
Housing Material	Steel Sheet
Max. Temperature	1300 °C
Program Memories	5
Thermocouple Type	S 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)	605 x 950 x 708 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)	250 x 200 x 395 mm
Inner Volume Temperature Homogeneity	± 10 °C
Product Outer Dimension (Wx H x D)	546 x 668 x 790 mm