



Muffle Furnace LD-LMF-J12

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Overview

LMF-J12 model of muffle furnace is a microprocessor controlled furnace that is uniquely designed with optimum heat insulation properties and is ideal for ashing of food, plastic and other organic materials. With heating elements MoSi₂ vertically aligned next to the side walls, S and B type thermocouple, dual shell housing for low outer surface temperature, it is perfect for continuous and maximum working temperature of 1700 °C. Having user friendly menu in 4 line display for easy operation and current limit control for safe operation, it is designed for minimal space requirement in the laboratory and is equipped with instantaneous energy consumption indicator, total working hour counter, control unit overheating sensor etc.

Features:

- PID controller
- LCD display that shows current and target temperature
- Optimum insulation properties
- 4, 8, 16 step heating program available
- MoSi₂ heating elements vertically aligned next to the side walls
- Accurate temperature measurement and control using S and B type thermocouple
- Unique electronic design and software
- 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
- 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	5.200 W
Chimney	Standard without fan
Display	4 x 20" LCD
Capacity	3 L
Net Weight	96 kg
Gross weight	116 kg
Max. Current	2 x 12 A

Thermal Rate	3 °C - 20 °C
Heating Program	16 step
Heating element	MoSi ₂ (Molybdenum disilicide)
Housing Coating	Epoxy powder coating
Housing Material	Steel Sheet
Max. Temperature	1700 °C
Program Memories	5
Thermocouple Type	B Type
Burst Heating Mode	Yes
Lockable Door Handle	Sidewards
Measurement Accuracy	± 1 °C
Skip the Waiting Step	Yes
Door Insulation Material	Ceramic Fibre Board
Heating Element Placement	Vertically 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)	527 x 980 x 794 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)	115 x 150 x 175 mm
Inner Volume Temperature Homogeneity	± 10 °C
Product Outer Dimension (W x H x D)	467 x 920 x 634 mm