



## **1250°C Muffle Furnace LD-LMF-D12**

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# 1250°C Muffle Furnace LD-LMF-D12

## Overview

LMF-D12 model of Muffle Furnace is uniquely designed furnace having optimal insulation properties and basic control options with user friendly operating menu in 4 line display for easy operation. With heating elements Fe-Cr-Al, embedded into bricks, it is ideal for maximum and continuous working temperature of 1250 °C. It is equipped with instantaneous energy consumption indicator, calculator for average working temperature, Total working hour counter and descriptive error indicator and is efficient, accurate and reliable in working.

## 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:

|                        |              |
|------------------------|--------------|
| <b>Power</b>           | 2.250 W      |
| <b>Chimney</b>         | Standard     |
| <b>Capacity</b>        | 5 L          |
| <b>Net Weight</b>      | 49 kg        |
| <b>Gross weight</b>    | 63 kg        |
| <b>Max. Current</b>    | 10A          |
| <b>Thermal Rate</b>    | 3 °C - 20 °C |
| <b>Heating Program</b> | 8 step       |

|                                             |                                       |
|---------------------------------------------|---------------------------------------|
| <b>Heating element</b>                      | Fe-Cr-Al                              |
| <b>Housing Coating</b>                      | Epoxy powder coating                  |
| <b>Housing Material</b>                     | Steel Sheet                           |
| <b>Max. Temperature</b>                     | 1250 °C                               |
| <b>Program Memories</b>                     | 6                                     |
| <b>Thermocouple Type</b>                    | K Type                                |
| <b>Lockable Door Handle</b>                 | Sidewards                             |
| <b>Measurement Accuracy</b>                 | ± 1 °C                                |
| <b>Door Insulation Material</b>             | Ceramic Fibre Board                   |
| <b>Heating Element Placement</b>            | Embedded into brick walls             |
| <b>Inner Insulation Material</b>            | Insulating Fire Brick                 |
| <b>Auto Start at Certain Date</b>           | Yes                                   |
| <b>Heating Element Protection</b>           | None                                  |
| <b>Gross Dimension ( W x H x D)</b>         | 508 x 780 x 678 mm                    |
| <b>Temperature Control Accuracy</b>         | ± 1 °C (can vary at low temperatures) |
| <b>Front Face Insulation Material</b>       | Insulating Fire Brick                 |
| <b>Inner Chamber Dimension (W x H x D)</b>  | 152 x 150 x 225 mm                    |
| <b>Inner Volume Temperature Homogeneity</b> | ± 10 °C                               |
| <b>Product Outer Dimension (W x H x D)</b>  | 448 x 618 x 620 mm                    |