



## **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:

|                        |              |
|------------------------|--------------|
| <b>Power</b>           | 4.500 W      |
| <b>Chimney</b>         | Standard     |
| <b>Capacity</b>        | 20 L         |
| <b>Net Weight</b>      | 81 kg        |
| <b>Gross weight</b>    | 101 kg       |
| <b>Max. Current</b>    | 2 x 10 A     |
| <b>Thermal Rate</b>    | 3 °C - 20 °C |
| <b>Heating Program</b> | 16 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>                     | 1300 °C                               |
| <b>Program Memories</b>                     | 5                                     |
| <b>Thermocouple Type</b>                    | S 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>Gross Dimension (W x H x D)</b>          | 605 x 950 x 708 mm                    |
| <b>Temperature Control Accuracy</b>         | ± 1 °C (can vary at low temperatures) |
| <b>Front Face Insulation Material</b>       | Insulating Fire Brick                 |
| <b>Element Heating Element Protection</b>   | Quartz Tube                           |
| <b>Inner Chamber Dimension (W x H x D)</b>  | 250 x 200 x 395 mm                    |
| <b>Inner Volume Temperature Homogeneity</b> | ± 10 °C                               |
| <b>Product Outer Dimension (Wx H x D)</b>   | 546 x 668 x 790 mm                    |