



## **Muffle Furnace LD-LMF-H30**

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# Muffle Furnace LD-LMF-H30

## Overview

LMF-H30 model of Muffle Furnace is a microprocessor controlled furnace having unique electronic design with user friendly operating menu in 4 line display for easy operation. It uses phase angle firing method for slowing down the inevitable aging of SiC heating elements, has its own unique software and is accurate in temperature controlling and measuring using S type thermocouple. Crafted for minimal space requirement in the laboratory, it is equipped with instantaneous energy consumption indicator, total working hour counter, control unit overheating sensor etc. and is ideal for maximum and continuous working temperature of 1550 °C.

## Features:

- PID controller
- LCD display that shows current and target temperature
- Optimum insulation properties
- 4, 8, 16 step heating programs available
- SiC heating elements horizontally aligned next to the side walls
- Accurate temperature measurement and control using S type of thermocouple
- 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
- High cold start heating rate
- Uses phase angle firing method for slowing down the aging of SiC heating elements
- 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:

|                     |                      |
|---------------------|----------------------|
| <b>Power</b>        | 8.194 W              |
| <b>Chimney</b>      | Standard without fan |
| <b>Display</b>      | 4 x 20" LCD          |
| <b>Capacity</b>     | 9 L                  |
| <b>Net Weight</b>   | 66 kg                |
| <b>Gross weight</b> | 87 kg                |
| <b>Max. Current</b> | 2 x 19 A             |

|                                             |                                             |
|---------------------------------------------|---------------------------------------------|
| <b>Thermal Rate</b>                         | 3 °C - 20 °C                                |
| <b>Heating Program</b>                      | 4 step                                      |
| <b>Heating element</b>                      | SiC (Silicon Carbide)                       |
| <b>Housing Coating</b>                      | Epoxy powder coating                        |
| <b>Housing Material</b>                     | Steel Sheet                                 |
| <b>Max. Temperature</b>                     | 1550 °C                                     |
| <b>Program Memories</b>                     | 4                                           |
| <b>Thermocouple Type</b>                    | S Type                                      |
| <b>Burst Heating Mode</b>                   | Yes                                         |
| <b>Lockable Door Handle</b>                 | Sidewards                                   |
| <b>Measurement Accuracy</b>                 | ± 1 °C                                      |
| <b>Skip the Waiting Step</b>                | Yes                                         |
| <b>Door Insulation Material</b>             | Ceramic Fibre Board                         |
| <b>Heating Element Placement</b>            | Horizontally aligned next to the side walls |
| <b>Inner Insulation Material</b>            | Ceramic Fibre Board                         |
| <b>Auto Start at Certain Date</b>           | Yes                                         |
| <b>Gross Dimension (W x H x D)</b>          | 630 x 706 x 894 mm                          |
| <b>Show Remaining Waiting Time</b>          | Yes                                         |
| <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>  | 200 x 180 x 300 mm                          |
| <b>Inner Volume Temperature Homogeneity</b> | ± 10 °C                                     |
| <b>Product Outer Dimension (W x H x D)</b>  | 570 x 646 x 634 mm                          |