



## **Muffle Furnace LD-LMF-J22**

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# Muffle Furnace LD-LMF-J22

## Overview

LMF-J22 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 MoSi<sub>2</sub> vertically aligned next to the side walls, S and B type thermocouple, dual sheet 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
- MoSi<sub>2</sub> 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:

|                     |                      |
|---------------------|----------------------|
| <b>Power</b>        | 8.900 W              |
| <b>Chimney</b>      | Standard without fan |
| <b>Display</b>      | 4 x 20" LCD          |
| <b>Capacity</b>     | 6 L                  |
| <b>Net Weight</b>   | 110 kg               |
| <b>Gross weight</b> | 133 kg               |
| <b>Max. Current</b> | 2 x 20 A             |

|                                             |                                           |
|---------------------------------------------|-------------------------------------------|
| <b>Thermal Rate</b>                         | 3 °C - 20 °C                              |
| <b>Heating Program</b>                      | 16 step                                   |
| <b>Heating element</b>                      | MoSi <sub>2</sub> (Molybdenum disilicide) |
| <b>Housing Coating</b>                      | Epoxy powder coating                      |
| <b>Housing Material</b>                     | Steel Sheet                               |
| <b>Max. Temperature</b>                     | 1700 °C                                   |
| <b>Program Memories</b>                     | 5                                         |
| <b>Thermocouple Type</b>                    | B 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>            | Vertically 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>          | 562 x 1015 x 839 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>  | 150 x 185 x 220 mm                        |
| <b>Inner Volume Temperature Homogeneity</b> | ± 10 °C                                   |
| <b>Product Outer Dimension (W x H x D)</b>  | 502 x 955 x 679 mm                        |