



Muffle Furnace LD-LMF-J53

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Overview

Muffle Furnace LD-LMF-J53 is a high-temperature laboratory furnace designed for applications requiring controlled heating. It features high-temperature-resistant polycrystalline mullite fibre insulation for accurate temperature measurement and control.

Features:

- High-temperature-resistant polycrystalline mullite fibre insulation
- MoSi₂ heating elements for high-temperature operation
- High-precision B-type thermocouple
- Double-shell housing with ventilation channels
- Standard exhaust chimney for gas discharge and ashing applications
- Door safety mechanism with power interruption when opened
- Over-temperature protection with audible and visual alarm
- Thermocouple failure protection
- Leakage protection
- Standard insulation gloves, crucible tongs and alumina bearing plate included

Applications:

It is suitable for high-temperature laboratory applications such as ashing, heat treatment, calcination, ceramic processing, material testing, thermal treatment and high-temperature research.

Specifications:

Controller	30-segment programmable temperature controller
Net Weight	270 kg
Exhaust Port	Outer diameter Ø22 mm; inner diameter 18 mm
Furnace Type	High-temperature ceramic-fibre muffle furnace
Gross Weight	320 kg
Power Supply	AC 380 V, 50 Hz
Chamber Volume	36 L
Housing Finish	Surface spray treatment
Heating Element	MoSi ₂ (Molybdenum Disilicide)
Housing Material	Cold-rolled steel plate

Furnace Insulation	High-temperature-resistant polycrystalline mullite fibre
Temperature Sensor	B-type thermocouple
Maximum Temperature	1700°C
Temperature Accuracy	±1°C
Temperature Resolution	1°C
Variable Hearth Volume	Yes
Packing Dimensions (W × L × H)	910 × 1265 × 1460 mm
External Dimensions (W × L × H)	750 × 1065 × 1250 mm
Heating Time to Maximum Temperature	?140 min
Long-Term Continuous Operating Temperature	1650°C