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Product Name :

Muffle Furnace

Product Code :

SLE/MCE/21



Science Lab
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Description :

Muffle Furnace (Product Code: SLE/MCE/21) is a high-temperature laboratory furnace used to heat-treat, anneal and ash samples in materials testing, metallurgy and chemistry laboratories. It is available in 1100°C and 1400°C versions with a programmable PID temperature controller, SCR power control, silicon carbide heating rods and 42 or 56 litre chambers. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM laboratory equipmentmanufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Maximum temperature	1100°C or 1400°C versions
Continuous operating temperature	1000°C (1100°C version); 1300°C (1400°C version)
Heating elements	Silicon carbide (SiC) rods
Thermocouple	K type, R type
Temperature controller	Programmable PID controller with SCR power control
Insulation	Ceramic fibre blanket
Chamber material	Ceramic fibre board, ceramic zirconium board
Exterior	Mild steel, powder coated
Chamber size and volume	300 x 300 x 457 mm (42 litres); 300 x 300 x 609 mm (56 litres)
Power supply	220 V, 50 Hz; or 3 phase, 440 V, 50 Hz
Other features	Uniform heating rate, safety devices fitted, rugged construction for long runs
Product code	SLE/MCE/21
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Muffle Furnace Used For?

In a materials testing lab the furnace hardens, tempers, normalises and anneals steel specimens, so students can measure how hardness and toughness change with heat treatment. Chemistry, soil and food laboratories use the same furnace to ash samples in crucibles and to dry or ignite residues at controlled temperatures. The programmable controller lets staff set a heating profile and leave it to run, while the uniform heating rate helps specimens in different parts of the chamber receive similar treatment.

Load and unload with long crucible tongs and heat-resistant gloves, avoid opening the door at full temp
1400
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from

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