



MUFFLE FURNACE

(OLSC-106 Series)

Experience precision and durability with our high-performance Muffle Furnace – engineered for excellence in every lab application!

Website: www.olsc.us

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APPLICATION AREAS:

- ❖ "OCEAN" Rectangular Muffle Furnace is elegantly designed in various applications for R&D labs, Chemical Industries, Pharma & Foundries for making ash for chemical analysis.
- ❖ Low Cost option for heating the material on high temperature.

Common Muffle Furnace Uses:

There are several industries where these furnaces help treat different kinds of materials for determining. The standard muffle furnace helps manufacture glass, ceramics, and other materials. In the industries like cement making, foundry and nuclear sectors, muffle furnaces help treat the samples at high temperatures.

Specification



- ☐ Internal Chamber: Multi-layer insulation, lightweight refractory bricks with high mechanical strength.
- ☐ External Chamber: High-grade stainless steel (non-corrosive) with textured finish.
- ☐ Insulation: Non-classified fiber insulation material ensuring superior thermal efficiency.
- ☐ Chamber Volume: 27 liters capacity.
- ☐ Dual-Shell Housing: Maintains low external temperatures and ensures operational stability.
- ☐ Microprocessor-based Digital PID Temperature Controller with accuracy of $\pm 5^{\circ}\text{C}$.
- ☐ Solid-state relays for silent switching operation, no relay wear-out.
- ☐ Fitted with heavy hinges & door is duly insulated.
- ☐ Program status display with real-time end time & estimated completion date.
- ☐ Easy program entry & user-friendly interface.
- ☐ Maximum Temperature is 1200°C and working temp. 1150°C
- ☐ Heating from two sides with ceramic heating plates.
- ☐ Quartz-covered wire heating elements for protection against fumes & corrosive gases.
- ☐ Easy replacement of heating elements.
- ☐ Heat-up Time: 60–90 minutes up to 1200°C (without load).
- ☐ Integrated adjustable air inlet in the door.
- ☐ Exhaust air outlet at rear wall of furnace chamber.
- ☐ Overtemperature protection with independent safety cutoff.
- ☐ Built-in protective measures against overheating & element damage.
- ☐ Supplied with cord and plug.
- ☐ Interface: USB connectivity for data transfer.
- ☐ Operating Voltage: 220 Volts AC (50 Hz).

MODELS	OLSC-106-8
Inner Chamber in mm (W x H x D)	300 x 300 x 300mm
LITER CAPACITY	27 LITER
Thermocouple	K type
Chamber MOC	Multi layer insulation with robust lightweight refractory bricks in the furnace Chamber
Insulation	Insulation made of non-classified fiber material
Exterior moc	Stainless Steel
Temperature Range	Maximum Temperature is 1200°C and working temp. 1150°C
Temperature accuracy	±5°C
Heating	Ceramic heating plates with integral heating element
Temp. Controller	Programmable (Profile) PID Temperature controller cum indicator.
Display	Digital LED digital display of set value & process value, time and date
Relay	Solid state electronic relay with protective heat sink.
Voltage	Operating Voltage: Single phase 230-240v 50-60hz

OPTIONAL FEATURES:

Controlling of Temperature	By Profile (Micro Programmable Controller)
Communication Port	RS - 485 with Window based software
LCD control with Data Logger	(16 x 2) with optional RS-232 communication ports, cables, window based software with inbuilt data recording.



***LCD display with
Data Logger***

OCEAN LIFE SCIENCE CORPORATION

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OCEAN LIFE SCIENCE CORPORATION

Leading manufacturer of laboratory equipment's

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