



# MUFFLE FURNACE

## LMF-A1 Series

[www.labtron.com](http://www.labtron.com)

[info@labtron.com](mailto:info@labtron.com)

# MUFFLE FURNACE

## Muffle Furnace LMF-A1 series

LMF-A1 series models of Muffle Furnace are uniquely designed with optimum insulation properties and are ideal for ashing of food, plastic and other organic materials. With heating elements Fe-Cr-Al embedded into the brick walls, K type thermocouple and dual shell housing for low outer surface temperature, they are perfect for continuous working process at 950°C.

## Features

- PID controller
- New mono block body design
- 7 segment display
- Optimum insulation properties
- Direct/ 2 step heating program
- Fe-Cr-Al heating element embedded in brick walls
- K-type thermocouple
- Dual shell housing for low outer surface temperature
- Ceramic fibre board as front face and door insulation material
- Audio warnings as the step changes and at the end of the program
- Provision of automatic power cut-off to the heating elements and alert if the control unit/control card is over heated.
- User friendly

## Applications

They are used for applications such as: Fusing glass, Creating enamel coatings, Ceramics, Soldering, Brazing, Rubbers & Polymers. They are also used for metallurgical applications, for ash content determination and in research centers and medical laboratories to determine the volatile & non-combustible proportion of the sample.

# MUFFLE FURNACE

## Specifications

Model No.	LMF-A10	LMF-A11
Max. Temperature	950 °C	
Capacity	3 L	
Heating Program	Direct	Two step
Thermal Rate	5°C-25°C/min	
Heating Element	Fe-Cr-Al	
Program Memories	1	2
Thermocouple Type	K Type	
Heating Element Placement	Embedded into brick walls	
Inner Insulation Material	Insulating Fire Brick	
Front Face Insulation Material	Ceramic Fibre Board	
Door Insulation Material	Ceramic Fibre Board	
Housing Material	Steel Sheet	
Housing Coating	Epoxy powder coating	
Chimney	Standard	
Element Heating Element Protection	Quartz Tube	
Lockable Door Handle	Sideways	
Temperature Control Accuracy	±1°C	
Measurement Accuracy	±1°C	
Power	1500 W	
Max. Current	7 A	
Inner Volume Temperature Homogeneity	±10°C	
Inner Chamber Dimension (W x H x D)	130 x 105 x 230 mm	
Product Outer Dimension (W x H x D)	336 x 434 x 533 mm	
Gross Dimension ( W x H x D)	420 x 620 x 620 mm	
Net Weight	25 kg	
Gross weight	35 kg	

# MUFFLE FURNACE

## Optional Features

- Over Temperature Limiter
- Gas Supply Connection
- Observation Hole
- PC connection
- 110 V power supply

## Optional Features

- Inner module: changing inner module renews your furnace close to a brand new furnace
- Door Insulation: with sheet metal holder vessel
- PCB: Easy to replace. Pre-programmed
- Display card: 7 segment, 3 digit
- Chimney Fan: 4 x 40 x 10 /5 V fan

## Optional accessories

Sr. no.	Accessory
1	High Temperature Gloves
2	Tongs
3	Alumina Crucibles
4	Metal Crucibles
5	Alumina Combustion Boats
6	Ceramic Pipes
7	Extra Thermocouple