



# FURNACES

## LABOCON SYSTEMS

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## MUFFLE FURNACE- 100 Series



Labocon LMF-100 Series muffle furnace is capacious insulating equipment typically designed by keeping in mind current laboratory and Industrial need. Especially for the quality seekers who cannot compromise with the standard of the equipment. This design also provides efficient, reliable operation, and enhanced chamber uniformity at high temperatures. They're built with long-life, heavy gauge coil heating elements for years of dependable operation.

### Features:

- Fe-Cr-Al alloy as heating element (resistant element)
- 30 Segments programmable
- PID controller
- Equipped with K type thermocouple

### Application:

It is most excellent tool for dental porcelain, sintering, pre-heating, tempering, hardening, mar tempering stress relieving, annealing, normalizing, pack carburizing, hardening, melting, ashing and crystallizing.

### Specifications:



Model	LMF-101	LMF-102	LMF-103	LMF-104	LMF-105	LMF-106
Dimension(mm)	150x150x150	150x150x200	200x200x200	200x200x300	250x250x300	300x300x400
Maximum Temp.	1200℃					
Working Temp.	1100℃					
Thermal Rate	1-20℃/min			1-15℃/min		
Temp. Accuracy	±0.5℃					
Temp. Uniformity	±1℃					
Weight (kg)	75	85	98	110	125	160
Power Supply	240V/50Hz					
Catalog No.	5153150603	5153151603	5153152603	5153153603	5153154603	5153155603

## MUFFLE FURNACE- 200 Series



Labocon LMF-200 Series muffle furnace is capacious insulating equipment typically designed by keeping in mind current laboratory and Industrial need. Especially for the quality seekers who cannot compromise with the standard of the equipment. This design provides efficient, reliable operation, and enhanced chamber uniformity at high temperatures. They're built with long-life, heavy gauge coil heating elements for years of dependable operation.

### Features:

- 30 Segments programmable
- PID controller
- SiC rode as heating element (resistant element)
- Equipped with S type thermocouple

### Application:

It is most excellent tool for dental porcelain, sintering, pre-heating, tempering, hardening, mar tempering stress relieving, annealing, normalizing, pack carburizing, hardening, melting, ashing and crystallizing.

### Specifications:

Model	LMF-201	LMF-202	LMF-203	LMF-204	LMF-205	LMF-206
Dimension(mm)	150x150x150	150x150x200	200x200x200	200x200x300	250x250x300	300x300x400
Maximum Temp.	1400℃					
Working Temp.	1300℃					
Thermal Rate	1-20℃/min			1-15℃/min		
Temp. Accuracy	±0.5℃					
Temp. Uniformity	±1℃					
Weight (kg)	85	95	110	125	160	190
Power Supply	240V/50Hz					
Catalog No.	5153156603	5153157603	5153158603	5153159603	5153160603	5153161603



## MUFFLE FURNACE- 300 Series



Labocon LMF-300 Series muffle furnace is capacious insulating equipment typically designed by keeping in mind current laboratory and Industrial need. Especially for the quality seekers who cannot compromise with the standard of the equipment. This design also provides efficient, reliable operation, and enhanced chamber uniformity at high temperatures. They're built with long-life, heavy gauge coil heating elements for years of dependable operation.

### Features:

- MoSi2 rod as heating element (resistant element)
- 30 Segments programmable
- PID controller
- Equipped with S type thermocouple

### Application:

It is most excellent tool for dental porcelain, sintering, pre-heating, tempering, hardening, mar tempering stress relieving, annealing, normalizing, pack carburizing, hardening, melting, ashing and crystallizing.

### Specifications:



Model	LMF-301	LMF-302	LMF-303	LMF-304	LMF-305	LMF-306
Dimension(mm)	150x150x150	150x150x200	200x200x200	200x200x300	250x250x300	300x300x400
Maximum Temp.	1700℃					
Working Temp.	1600℃					
Thermal Rate	1-20℃/min			1-15℃/min		
Temp. Accuracy	±0.5℃					
Temp. Uniformity	±1℃					
Weight (kg)	98	145	185	230	278	305
Power Supply	240V/50Hz					
Catalog No.	5153162603	5153163603	5153164603	5153165603	5153166603	5153167603

## TUBE FURNACE B- Series



Labocon Tube Furnace B Series is regulated by PID controller. It has 30 programmable segments, high quality heating elements, 1100°C to 1650°C temperature range and available with huge dimension range.

### Application:

Widely used for materials or chemical lab to sinter all types of new material samples under vacuum or other gas conditions.

### Specifications:

Model		Tube Furnace B-1200 Series	Tube Furnace B-1400 Series	Tube Furnace B-1600 Series
Model Tube Dimension: (Dia. x L) (mm)	40x300	→ LTFB-1200I	LTFB-1400I	LTFB-1600I
	40x450	→ LTFB-1200II	LTFB-1400II	LTFB-1600II
	60x300	→ LTFB-1200III	LTFB-1400III	LTFB-1600III
	60x450	→ LTFB-1200IV	LTFB-1400IV	LTFB-1600IV
	80x300	→ LTFB-1200V	LTFB-1400V	LTFB-1600V
	80x450	→ LTFB-1200VI	LTFB-1400VI	LTFB-1600VI
Temperature	Maximum	1200℃	1400℃	1600℃
	Working	1100℃	1300℃	1650℃
	Accuracy	±1℃		
Heating	Rate	0~10℃ / min		
	Element	Fe-Cr-Al	SiC	MoSi <sub>2</sub>
Furnace Tube Material		Quartz	High quality Al <sub>2</sub> O <sub>3</sub> ceramic	
Power Supply		AC 220V 50/60 Hz		
Weight (kg)		70	90	150

### Catalog Numbers:

Model	LTFB-1200I	LTFB-1200II	LTFB-1200III	LTFB-1200IV	LTFB-1200V	LTFB-1200VI
Catalog No.	5153168602	5153169602	5153170602	5153171602	5153172602	5153173602
Model	LTFB-1400I	LTFB-1400II	LTFB-1400III	LTFB-1400IV	LTFB-1400V	LTFB-1400VI
Catalog No.	5153174602	5153175602	5153176602	5153177602	5153178602	5153179602
Model	LTFB-1600I	LTFB-1600II	LTFB-1600III	LTFB-1600IV	LTFB-1600V	LTFB-1600VI
Catalog No.	5153180602	5153181602	5153182602	5153183602	5153184602	5153185602