



Muffle Furnace

Muffle Furnace

Muffle Furnace

We manufacture high quality muffle furnace with enhanced temperature uniformity. It ensures high accuracy along with easy loading and unloading of samples.

Muffle Furnace LMF-A1 Series

Model of Labtron Muffle furnace LMF-A Series is uniquely designed for optimized insulation and minimum heat loss. It keeps the temperature of the outer furnace body minimum which makes it easy for the user to operate. Chamber is heated by electric resistance heaters. The built-in fan system allows the abrasive gases come out of the furnace through a chimney. It provides capacity of 3.1 liter, 5.2 liter, 7.4 liter with maximum and continuous working temperature 950°.

Features

- ▶ PID controller
- ▶ The control unit is placed above the furnace body which makes the controlling easy
- ▶ Two-step or direct heating program
- ▶ Two memories to store two different programs as per the user's needs
- ▶ Audio warnings as the steps change and at the end of the heating program
- ▶ Microprocessor automatically cuts power to the heating elements and alerts if the control unit/ control card is overheated or if the furnace is heated above the maximum heating temperature
- ▶ User friendly menu

Application

It covers an extensive variety of applications including quality control, ashing, heat treatment, preheating, melting, metallurgical research, sample production and many more.

Technical Parameters

Model	LMF-A10	LMF-A11	LMF-A12	LMF-A13	LMF-A14	LMF-A15
Capacity	3.1 L	3.1 L	5.2 L	5.2 L	7.4 L	7.4 L
Heating Program	Direct	Direct/ two step	Direct	Direct/ two step	Direct	Direct/ two step
Program Memories	1	2	1	2	1	2
Net Weight	26kg	26kg	28kg	28kg		
Gross Weight	30kg	30kg	32kg	32kg		
Temperature Accuracy	±1°C					
Maximum Temperature	950°C					
Working Temperature	950°C					

Muffle Furnace

Thermal Rate	5°C/min-15°C/min
Amperage (Imax)	6.6A
Internal Dimension	130x105x230mm
Overall Dimension	360x480x540mm
Power	1450W
Power Supply	220V/50Hz

Muffle Furnace

Model of Labtron Muffle Furnace LMF-B Series is ergonomically designed which provides efficient, reliable operation and enhanced chamber uniformity at high temperatures. They have been crafted for heavy duty operation. They provide minimum heat loss and optimized insulation. Chamber is heated by electric resistance heaters. The built-in fan system allows the abrasive gases come out of the furnace through a chimney. They are available in capacity of 5.2 liter, 7.4 liter.

Features

- ▶ Electrical resistance heaters are protected against abrasive gases by quartz tubes
- ▶ PID controller
- ▶ The control unit is placed above the furnace body which makes the controlling easy
- ▶ 4 line wide display and user friendly menu
- ▶ Direct or two step heating program
- ▶ Date and time adjustments available
- ▶ Two memories to store two different programs as per the user's needs
- ▶ Audio warnings as the steps change and at the end of the heating program
- ▶ Timer indicates total heating time
- ▶ Microprocessor automatically cuts power to the heating elements and alerts if the control unit/ control card is overheated or if the furnace is heated above the maximum heating temperature

Application

It covers an extensive variety of applications including quality control, ashing, heat treatment, preheating, melting, metallurgical research, sample production and many more.

Muffle Furnace

Technical Parameters

Capacity: 5.2 L and 7.4L

Model	LMF-B10	LMF-B11	LMF-B12	LMF-B13	LMF-B14	LMF-B15	LMF-B16	LMF-B17
Capacity	5.2 L	5.2 L	5.2 L	5.2 L	7.4 L	7.4 L	7.4 L	7.4 L
Temperature Accuracy	±1°C							
Maximum Temperature	1100°C							
Working Temperature	1075°C							
Thermal Rate	3°C/min-20°C/min							
Amperage (Imax)	9.1 A				11.4A			
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5	2	4	6	5
Internal Dimension	150x150x230mm				200x160x230mm			
Overall Dimension	480x640x640mm				580x650x650mm			
Net Weight	58kg				70kg			
Gross Weight	62kg				74kg			
Power	2000 W				2500 W			
Power Supply	220V/50Hz							

Muffle Furnace LMF-B2 Series

Model of Labtron Muffle Furnace LMF-B Series is ergonomically designed which provides efficient, reliable operation and enhanced chamber uniformity at high temperatures. They have been crafted for heavy duty operation. They provide minimum heat loss and optimized insulation. Chamber is heated by electric resistance heaters. The built-in fan system allows the abrasive gases come out of the furnace through a chimney.

They are available in capacity of 10.4 liter, 15.0 liter, and 20.0 liter.

Features

- ▶ Electrical resistance heaters are protected against abrasive gases by quartz tubes
- ▶ PID controller
- ▶ The control unit is placed above the furnace body which makes the controlling easy
- ▶ 4 line wide display and user friendly menu

Muffle Furnace

- ▶ Date and time adjustments available
- ▶ Two memories to store two different programs as per the user's needs
- ▶ Audio warnings as the steps change and at the end of the heating program
- ▶ Timer indicates total heating time
- ▶ Microprocessor automatically cuts power to the heating elements and alerts if the control unit/ control card is overheated or if the furnace is heated above the maximum heating temperature
- ▶ Temperature calibration correction via menu
- ▶ Waiting levels provided
- ▶ Auto start at the set date (year-month-day-time)
- ▶ Offset calibration via menu ($\pm 10^{\circ}\text{C}$) Heat rate settings at each program
- ▶ 16 stage heating program at 5th memory

Application

It covers an extensive variety of applications including quality control, ashing, heat treatment, preheating, melting, metallurgical research, sample production and many more.

Technical Parameters

Capacity: 10.4L

Model	LMF-B20	LMF-B21	LMF-B22	LMF-B23
Capacity	10.4L			
Temperature Accuracy	$\pm 1^{\circ}\text{C}$			
Maximum Temperature	1100 $^{\circ}\text{C}$			
Working Temperature	1075 $^{\circ}\text{C}$			
Thermal Rate	3 $^{\circ}\text{C}/\text{min}$ -20 $^{\circ}\text{C}/\text{min}$			
Amperage (Imax)	12.7A			
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Internal Dimension	250x180x230mm			
Overall Dimension	580x650x660mm			
Net Weight	72kg			
Gross Weight	76kg			
Power	2800W			
Power Supply	220V/50Hz			

Muffle Furnace

Capacity: 15.0L

Model	LMF-B24	LMF-B25	LMF-B26	LMF-B27
Capacity	15.0L			
Temperature Accuracy	±1°C			
Maximum Temperature	1100°C			
Working Temperature	1075°C			
Thermal Rate	3°C/min-20°C/min			
Amperage (Imax)	16.4 A			
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Internal Dimension	250x200x300mm			
Overall Dimension	580x720x750mm			
Net Weight	105kg			
Gross Weight	111kg			
Power	3600W			
Power Supply	220V/50Hz			

Capacity: 20.0L

Model	LMF-B28	LMF-B29	LMF-B210	LMF-B211
Capacity	20.0L			
Temperature Accuracy	±1°C			
Maximum Temperature	1100°C			
Working Temperature	1075°C			
Thermal Rate	3°C/min-20°C/min			
Amperage (Imax)	18.2A			
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Internal Dimension	250x200x400mm			
Overall Dimension	580x720x800mm			
Net Weight	109kg			
Gross Weight	115kg			
Power	4000W			
Power Supply	220V/50Hz			

Muffle Furnace

Muffle Furnace LMF-C1 Series

Model of Labtron Muffle Furnace LMF-C Series is designed for heavy duty operation. Its unique mechanical design ensures long life of the furnace. It provides minimum heat loss and optimized insulation. Chamber is heated by electric resistance heaters. The built-in fan system allows the abrasive gases come out of the furnace through a chimney.

They are available in capacity of 5.2 liter, 7.4 liter.

Features

- ▶ Electrical resistance heaters are protected against abrasive gases by quartz tubes
- ▶ PID controller
- ▶ The control unit is placed above the furnace body which makes the controlling easy
- ▶ 4 line wide display and user friendly menu
- ▶ Direct or two step heating program
- ▶ Date and time adjustments available
- ▶ Two memories to store two different programs as per the user's needs
- ▶ Audio warnings as the steps change and at the end of the heating program
- ▶ Timer indicates total heating time
- ▶ Microprocessor automatically cuts power to the heating elements and alerts if the control unit/ control card is overheated or if the furnace is heated above the maximum heating temperature
- ▶ Temperature calibration correction via menu
- ▶ Waiting levels provided
- ▶ Auto start at the set date (year-month-day-time)
- ▶ Offset calibration via menu ($\pm 10^{\circ}\text{C}$)

Application

It covers an extensive variety of applications including quality control, ashing, heat treatment, preheating, melting, metallurgical research, sample production and many more.

Muffle Furnace

Technical Parameters

Capacity: 5.2 L

Model	LMF-C10	LMF-C11	LLMF-C12	LMF-C13
Capacity	5.2 L			
Temperature Accuracy	±1°C			
Maximum Temperature	1200°C			
Working Temperature	1175°C			
Thermal Rate	3°C/min-20°C/min			
Amperage (Imax)	9.1 A			
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Internal Dimension	150x150x230mm			
Overall Dimension	480x640x640mm			
Net Weight	58kg			
Gross Weight	62kg			
Power	2000 W			
Power Supply	220V/50Hz			

Capacity: 7.4 L

Model	LMF-C14	LMF-C15	LMF-C16	LMF-C17
Capacity	7.4L			
Temperature Accuracy	±1°C			
Maximum Temperature	1200°C			
Working Temperature	1175°C			
Thermal Rate	3°C/min-20°C/min			
Amperage (Imax)	11.4 A			
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Internal Dimension	200x160x230mm			
Overall Dimension	580x650x650mm			
Net Weight	70kg			
Gross Weight	74kg			
Power	2500 W			
Power Supply	220V/50Hz			

Muffle Furnace

Muffle Furnace LMF-C2 Series

Model of Labtron Muffle Furnace LMF-C2 Series is designed for heavy duty operation. Its unique mechanical design ensures long life of the furnace. It provides minimum heat loss and optimized insulation. Chamber is heated by electric resistance heaters. The built-in fan system allows the abrasive gases come out of the furnace through a chimney.

They are available in capacity of 10.4 liter, 15 liter, 20 liter

Features

- ▶ Electrical resistance heaters are protected against abrasive gases by quartz tubes
- ▶ PID controller
- ▶ The control unit is placed above the furnace body which makes the controlling easy
- ▶ 4 line wide display and user friendly menu
- ▶ Direct or two step heating program
- ▶ Date and time adjustments available
- ▶ Two memories to store two different programs as per the user's needs
- ▶ Audio warnings as the steps change and at the end of the heating program
- ▶ Timer indicates total heating time
- ▶ Microprocessor automatically cuts power to the heating elements and alerts if the control unit/ control card is overheated or if the furnace is heated above the maximum heating temperature

Application

It covers an extensive variety of applications including quality control, ashing, heat treatment, preheating, melting, metallurgical research, sample production and many more.

Technical Parameters

Capacity: 10.4L

Model	LMF-C20	LMF-C21	LMF-C22	LMF-C23
Capacity		10.4L		
Temperature Accuracy		±1°C		
Maximum Temperature		1200°C		
Working Temperature		1175°C		
Thermal Rate		3°C/min-20°C/min		
Amperage (Imax)		12.7 A		

Muffle Furnace

Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Internal Dimension	200x180x230mm			
Overall Dimension	580x650x660mm			
Net Weight	72kg			
Gross Weight	76kg			
Power	2800 W			
Power Supply	220V/50Hz			

Capacity: 15.0L

Model	LMF-C24	LMF-C25	LMF-C26	LMF-C27
Capacity	15.0L			
Temperature Accuracy	±1°C			
Maximum Temperature	1200°C			
Working Temperature	1175°C			
Thermal Rate	3°C/min-20°C/min			
Amperage (Imax)	16.4 A			
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Internal Dimension	250x200x300mm			
Overall Dimension	580x720x750mm			
Net Weight	102 kg			
Gross Weight	108kg			
Power	3600 W			
Power Supply	220V/50Hz			

Capacity: 20.0L

Model	LMF-C28	LMF-C29	LMF-C210	LMF-C211
Capacity	20.0L			
Temperature Accuracy	±1°C			
Maximum Temperature	1200°C			
Working Temperature	1175°C			
Thermal Rate	3°C/min-20°C/min			

Muffle Furnace

Amperage (Imax)	18.2 A			
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Internal Dimension	250x200x400mm			
Overall Dimension	580x720x800mm			
Net Weight	109 kg			
Gross Weight	115 kg			
Power	4000 W			
Power Supply	220V/50Hz			

Muffle Furnace LMF-D1 Series

This Muffle Furnace range has a robust structure with tight door sealing provided with spring mechanism that offers excellent insulation. It is designed for heavy duty operation. Its unique mechanical design ensures long life of the furnace. It provides minimum heat loss and optimized insulation. Chamber is heated by electric resistance heaters. The built-in fan system allows the abrasive gases come out of the furnace through a chimney.

They are available in 5.2 liter and 7.4 liter.

Features

- ▶ Electrical resistance heaters are protected against abrasive gases by quartz tubes
- ▶ PID controller
- ▶ The control unit is placed above the furnace body which makes the controlling easy
- ▶ 4 line wide display and user friendly menu
- ▶ Direct or two step heating program
- ▶ Date and time adjustments available
- ▶ Two memories to store two different programs as per the user's needs
- ▶ Audio warnings as the steps change and at the end of the heating program
- ▶ Timer indicates total heating time
- ▶ Microprocessor automatically cuts power to the heating elements and alerts if the control unit/ control card is overheated or if the furnace is heated above the maximum heating temperature
- ▶ Waiting levels provided
- ▶ Auto start at the set date (year-month-day-time)
- ▶ Offset calibration via menu ($\pm 10^{\circ}\text{C}$)

Muffle Furnace

Application

It covers an extensive variety of applications including quality control, ashing, heat treatment, preheating, melting, metallurgical research, sample production and many more.

Technical Parameters

Capacity: 5.2 L

Model	LMF-D10	LMF-D11	LMF-D12	LMF-D13
Capacity	5.2 L			
Temperature Accuracy	±1°C			
Maximum Temperature	1300°C			
Working Temperature	1250°C			
Thermal Rate	3°C/min-20°C/min			
Amperage (Imax)	10.2 A			
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Internal Dimension	150x150x230mm			
Overall Dimension	480x640x640mm			
Net Weight	60kg			
Gross Weight	64kg			
Power	2000 W			
Power Supply	220V/50Hz			

Capacity: 7.4L

Model	LMF-D14	LMF-D15	LMF-D16	LMF-D17
Capacity	7.4L			
Temperature Accuracy	±1°C			
Maximum Temperature	1300°C			
Working Temperature	1250°C			
Thermal Rate	3°C/min-20°C/min			
Amperage (Imax)	16.4 A			
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Internal Dimension	200x160x230mm			
Overall Dimension	580x650x650mm			

Muffle Furnace

Net Weight	72kg
Gross Weight	76kg
Power	2500 W
Power Supply	220V/50Hz

Muffle Furnace LMF-D2 Series

This Muffle Furnace range has a robust structure with tight door sealing provided with spring mechanism that offers excellent insulation. It is designed for heavy duty operation. Its unique mechanical design ensures long life of the furnace. It provides minimum heat loss and optimized insulation. Chamber is heated by electric resistance heaters. The built-in fan system allows the abrasive gases come out of the furnace through a chimney. They are available in 10.4 liter, 15litre and 20 liter.

Features

- ▶ Electrical resistance heaters are protected against abrasive gases by quartz tubes
- ▶ PID controller
- ▶ The control unit is placed above the furnace body which makes the controlling easy
- ▶ 4 line wide display and user friendly menu
- ▶ Direct or two step heating program
- ▶ Date and time adjustments available
- ▶ Two memories to store two different programs as per the user's needs
- ▶ Audio warnings as the steps change and at the end of the heating program
- ▶ Timer indicates total heating time
- ▶ Microprocessor automatically cuts power to the heating elements and alerts if the control unit/ control card is overheated or if the furnace is heated above the maximum heating temperature
- ▶ Waiting levels provided
- ▶ Auto start at the set date (year-month-day-time)
- ▶ Offset calibration via menu ($\pm 10^{\circ}\text{C}$)

Application

It covers an extensive variety of applications including quality control, ashing, heat treatment, preheating, melting, metallurgical research, sample production and many more.

Muffle Furnace

Technical Parameters

Capacity: 10.4L

Model	LMF-D20	LMF-D21	LMF-D22	LMF-D23
Capacity	10.4L			
Temperature Accuracy	±1°C			
Maximum Temperature	1300°C			
Working Temperature	1250°C			
Thermal Rate	3°C/min-20°C/min			
Amperage (Imax)	16.4 A			
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Internal Dimension	200x180x230mm			
Overall Dimension	580x650x660mm			
Net Weight	72kg			
Gross Weight	76kg			
Power	2800 W			
Power Supply	220V/50Hz			

Capacity: 15.0L

Model	LMF-D24	LMF-D25	LMF-D26	LMF-D27
Capacity	115.0L			
Temperature Accuracy	±1°C			
Maximum Temperature	1300°C			
Working Temperature	1250°C			
Thermal Rate	3°C/min-20°C/min			
Amperage (Imax)	18.2 A			
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Internal Dimension	250x200x300mm			
Overall Dimension	580x720x750mm			
Net Weight	109 kg			
Gross Weight	115 kg			
Power	3600 W			
Power Supply	220V/50Hz			

Muffle Furnace

Technical Parameters

Capacity: 20.0L

Model	LMF-D28	LMF-D29	LMF-D210	LMF-D211
Capacity	20.0L			
Temperature Accuracy	±1°C			
Maximum Temperature	1300°C			
Working Temperature	1250°C			
Thermal Rate	3°C/min-20°C/min			
Amperage (Imax)	20.5 A			
Heating Program	Direct/ two step	4 stage	8 stage	8-16 stage
Program Memories	2	4	6	5
Internal Dimension				
Overall Dimension				
Net Weight				
Gross Weight				
Power				
Power Supply				



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