KLABS – MUFFLE FURNACE

Product Description

KLABS Microcontroller (PID) based Muffle Furnace designed for precise high-temperature applications with uniform heating and reliable performance.

LT-MF28L001

Features

- Audio visual alarm for temperature deviation
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- Spring shaped Kanthal A Nichrome heating elements
- Heavy insulated door with locking mechanism
- High temperature ceramic muffle chamber
- Powder coated outer body
- CE approved controller system
- Optional 21 CFR compliance software
- Dedicated safety controller with separate sensor

Applications / Uses

- Material testing laboratories
- Ash content determination
- Heat treatment processes
- Research & development labs
- Industrial sample processing

Construction

- Inner: Stainless Steel 304
- Outer: Mild Steel Powder Coated

Muffle Furnace is a customized product; specifications can be tailored as per requirement (GMP & GFR models available at extra cost)

Technical Specifications

Parameter	Specification
Name of Equipment	KLABS Micro controller (PID) based MUFFLE FURNACE
Temperature Range	900°C to **1200°C**
Temperature Accuracy	±1°C
Temperature Uniformity	2°C
Alarm	Audio Visual Alarm
Insulation	6” to 12” Thick High Density Glass Fiber Blanket
Heating System	Spring shaped Kanthal A Nichrome wire heaters
Door	Heavy insulated door with locking mechanism
Inner MOC	High temperature ceramic grooved muffle
Outer MOC	Powder coated heavy gauge mild steel
Control System	Microprocessor PID Controller (Auto tuning, CE Approved)
Power	230V AC, Single Phase, 50Hz
Other	MCB
Safety Features	Dedicated safety controller with separate sensor for over/under temperature cutoff

Standard Models

Model Number	Capacity (Liters)	Internal Size (WxDxH) mm	Max Temp (Working Temp)
KT- MF02L00 1	2	100 × 100 × 225	**1200°C (1150°C)**
KT- MF04L00 1	4	125 × 125 × 250	**1200°C (1150°C)**
KT- MF07L00 1	7	150 × 150 × 300	**1200°C (1150°C)**
KT- MF12L00 1	12	200 × 200 × 300	**1200°C (1150°C)**
KT- MF28L00 1	28	300 × 300 × 300	**1200°C (1150°C)**