



# MF SERIES

## Muffle Furnace

MF Series General Purpose Furnaces have maximum operating temperatures of 1100°C, 1200°C and 1300°C and can be used for a wide range of applications in many different sectors such as metal, ceramic and food industry, jewelry and dentistry. Their perfect design is ideal for;

- Ashing organic and inorganic samples
- Firing and sintering of ceramics, stoneware and porcelain
- Melting, annealing, hardening, tempering, stress relieving and heat treatments of ferrous and non-ferrous metals
- Thermal aging
- Chemical decomposition
- Thermal shock testing
- High temperature tests of components or fishing products



The chamber of MF Series Furnaces is made of vacuumed fiber board and refractory bricks. Refractory bricks are used for the bottom of the chamber and at the front of the chamber since those surfaces are subjected to more chemical and mechanical effects. Heating elements are coiled around the ceramic tubes and placed on the two sides of the chamber to ensure very good temperature uniformity and fast heating. Another advantage is the assembly system of the heaters which is very easy and economic to replace of the heaters in case of the failure.

By means of the high grade insulation made of fiber board, very good temperature homogeneity is obtained in the chamber. In addition to the insulation, double enveloped design with air gap between insulated chamber and the outer body keeps the outer body at low temperatures.

Counter balanced lid is opened upwards and keeps the hot surface of the lid away from the operator for safe and easy loading and unloading. As another safety feature, there is a switch which cuts off the power of the heaters when lid is opened.

The chimney for discharging the vapors occurring during the operation is offered as standard.

MF Series Furnaces are equipped with PID microprocessor control system which has temperature displays for actual and set temperatures. The control system gives an alarm in case of temperature sensor failure and stops heating if temperature exceeds the maximum set temperatures of the furnace.

Depending on the different performance needs, two more control systems are offered as option: Control systems with two steps and six steps. While it is possible to program only one heating ramp and one dwell for control system with two steps, it is possible to program totally six steps including heating ramps and dwells for control system with six steps. Those optional control systems have 3600 minute timer for each step and delayed start timer can be programmed up to 3600 minutes as well.

## TECHNICAL SPECIFICATIONS

	MF 106	MF 110	MF 205	MF 207	MF 306
Maximum temperature	1100°C		1200°C		1300°C
Continuous operating temperature	1050°C		1150°C		1250°C
Chamber volume,liters	6,3	10	5	7	6,3
Control system	PID Microprocessor control system				
Temperature set and display sensitivity	1°C				
Internal material	Fiber board and refractory brick				
External material	Electrostatic powder coated steel				
Time to maximum temperature, minutes	65	55	50	60	65
Power consumption, Watt	2000	3000	2000	2000	2500
Power supply	230 V, 50/60 Hz				
Internal dimensions (WxDxH) mm	210x200x150	200x250x200	180x200x140	200x250x140	200x250x140
External dimensions (WxDxH) mm	550x580x650	560x670x720	550x580x650	550x580x650	550x580x650

### OPTIONS

MF XXX (T) Timer-3600 minutes

MF XXX (2) Control system with two steps

MF XXX (6) Control system with six steps



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