

# Muffle Furnace



**TOPLAB INDIA'S** Laboratory Economy series Muffle furnace has many advantages of uniform temperature field, low surface temperature, heating or cooling promptly, energy saving and so on. Muffle furnace has Heating element of Kanthal resistance wire and double layer structure with air cooling system between the double walled housing to help the furnace heater cool promptly, it can rise to 1000°C in 30 minutes. Temperature controller is 40-segments digital controller and the chamber is made of Polycrystalline alumina fibre.

It is the ideal muffle furnace for high temperature sintering, metal annealing, quality inspection in Industry, Scientific research institutes and Universities.

## Technical Features:

- **Temperature controller:** Two Pilot Lamps with Microprocessor based Digital Temperature Controller. Over-temperature and over-current protection.
- **Chamber:** Good performance of heat preservation, high reflectivity, uniform temperature field, good ability of anti thermal expansion and cold contraction.
- **Heating element:** This furnace is installed with excellent Kanthal A1 resistance wire to ensure uniform temperature field and long service life.

## Technical Specification:

MODEL		TL-4MFD	TL-5MFD	TL-6MFD	TL-9MFD
Chamber Size ( inches)		9" x 4" x4"	10" x 5" x5"	12" x 6" x6"	18" x 9" x9"
Power Rating (KW)		2.0 KW	2.5 KW	3.5 KW	5.5 KW
Temperature (°C)	Maximum	1200°C			
	Working	1130°C			
	Accuracy	±1°C			
	Controller	Microprocessor based Digital Temperature Controller			
Heating Element		KANTHAL 'A-1 Wire'			
Thermocouple		Type K			
Heating Rate		≤30°C/min			
Material		Outer body: thick P.C.R.C. sheet duly powder coated , heavy gauge stainless steel SS304 ( Optional)			
Insulation		Light weight high temp ceramic fiber wool insulation			
Timer		Start / Stop setting; Max. 99hr 59min; Unit: 1 min			
Power Input		AC230V/50Hz			