

Specification of Muffle Furnace

S.N.	Description	Specification	Remarks
1	Furnace Structure	Double Layer Steel Casing with dual cooling fan, temperature of furnace shell below 60 deg C	
2	Furnace Liner	Two Layers of Ceramic fiber insulation materials First layer: Min. 1450 deg C ceramic fiber board Second layer: Min. 1300 deg C ceramic fiber board	
3	Chamber dimension	Min (500 X 250 X 500 mm)	
4	Working temperature	Min. 1300 deg C	
5	Heating rate	0-20 deg C/min	
6	Temperature accuracy	±1 deg C	
7	Thermocouple	B-type or PtRh40-PtRh20 (optional)	
8	Heating element	Silicon Carbide Heating Element	
9	Working Voltage	220V, 50Hz, Single Phase / 3 Phase AC	
10	Power	Min. 9 Kw	
11	Temperature control	PID automatic control via SCR 30 Programmable segments for precise control Built in PID auto tuned function with overheating & broken thermocouple broken protection	
12	Required accessories	Crucible tong-1 Pair High temperature refractory Gloves -1 Pair Allen Key- 1 Set Heating Rods- 2 Pieces Ceramic/Graphite Crucible- 1 Set	
13	Standard	ISO/CE or Equivalent	
14	Warranty	Minimum 1 Year or Provided by OEM Whichever is greater	
15	Terms and Conditions	Installation and Commissioning will be responsibility of supplier.	