Muffle Furnace is box type heat treatment equipment used to change physical properties of samples at very high temperature. These laboratory furnaces are widely used in scientific experiments in physics lab, rice laboratories, steel and paint industries, biotech companies and small industrial production etc. Their major applications include general laboratory testing, annealing, ash determination, coal analysis, leaves carbonization and lime calcinations etc. The other applications include: Ignition tests, Heat treating steel parts and Gears, Coal sampling, Organic and inorganic ashing, Chemical analysis, soils & aggregates cement Testing, Glass blowing lab, Plastic tensile strength test, Gravimetric analysis, Heat treating Gears, Quench testing, Research facilities in chemistry, Annealing loss determination, Development of coatings and ceramics, Rice laboratory, Stoneware samples firing etc.

Tempsens is ISO and CE certified Laboratory & Industrial furnace manufacturers and suppliers. Our company makes these Furnaces in various temperature ranges and chamber sizes. Each unit is made with rugged construction and equipped with easy to use controller system and safety devices. Standard models of our muffle furnaces come with maximum temperature range 1200°C, 1400°C, 1600°C and 1800°C.

Tempsens provide range of general purpose muffle furnace in four sizes, each available with max operating temperature 500°C to 1200°C.

### Technical Specification

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Max temp (°C)</td>
<td>1200 deg c</td>
</tr>
<tr>
<td>2</td>
<td>Working Temperature</td>
<td>1200 deg c</td>
</tr>
<tr>
<td>3</td>
<td>Heating Element</td>
<td>Kanthal A1</td>
</tr>
<tr>
<td>4</td>
<td>Muffle</td>
<td>Silicon Carbide</td>
</tr>
<tr>
<td>5</td>
<td>Temperature Controller</td>
<td>Microprocessor based PID controller</td>
</tr>
<tr>
<td>6</td>
<td>External Chamber Construction</td>
<td>Powder Coating / 304 Grade Stainless Steel (Optional)</td>
</tr>
<tr>
<td>7</td>
<td>Internal Chamber Construction</td>
<td>Ceramic Board &amp; Grooved Refractory Chamber as per Temp. Requirement</td>
</tr>
<tr>
<td>8</td>
<td>Temperature Accuracy</td>
<td>+/- 1 Deg C</td>
</tr>
</tbody>
</table>
### Optional Features

- Provision for gas/vacuum purging application (Ar, N2, O2, CO2 etc.)
- Available in standard or as per customer size requirement
- Programmable PID Controller with RS-232/RS-485/Ethernet & Data Logging Software
- Observation hole on the door

### Other Features

- Simple Installation
- Hassle free operation
- Automatic Temperature Control
- Easy Maintenance
- Spare part available at stock
- Rugged construction for long run
- Heating element from KANTHAL brand
- Dual Shell housing for low skin temperature.

### Muffle Furnace Accessories

- Gloves
- Heating Element
- Tongs

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