The furnace consists of a solid housing made of a profile steel/steel sheet construction. The insulation is according to the application as well as to the maximum temperature and mainly consists of high insulating refractory light bricks. The heating spirals made of MoSi2 heating element or Silicon Carbide heating element or Kanthal A1/APM heating wire on supporting tubes is located in the three walls. The furnace bottom is constructed as shuttle, covered with well heat conducting boards and is being moved trackless with a steering gear. Below the furnace guiding rails are installed for facilitate the running in of the shuttle.

### Technical Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. Temp. (°C)</th>
<th>Effective Inner Dimensions</th>
<th>Effective Inner Dimensions</th>
<th>Heating Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>BHF-900</td>
<td>900</td>
<td>K Type</td>
<td>Nichrome</td>
<td></td>
</tr>
<tr>
<td>BHF-1200</td>
<td>1200</td>
<td>Customized Size as Per Request</td>
<td>N Type</td>
<td>Kanthal A1/APM</td>
</tr>
<tr>
<td>BHF-1400</td>
<td>1400</td>
<td>R Type</td>
<td>SiC</td>
<td></td>
</tr>
<tr>
<td>BHF-1600</td>
<td>1600</td>
<td>B Type</td>
<td>MoSi2</td>
<td></td>
</tr>
</tbody>
</table>

- **Max. temperature**: 1200°C/1400°C/1600°C
- Shuttles within the furnace
- **Temperature Controller**: Microprocessor Based PID Temperature Controller
- **Heating Element**: Kanthal APM/Silicon Carbide/MoSi2
- Insulation: High insulating refractory light bricks/Ceramic Fiber Boards.
- Thermocouple with NABL certificate.
- Furnace close: Swivel door, hinged to the left, Vertical door
- Shuttle guide: Rails in the furnace
- Power control through thyristor or SSR unit.

### Optional Features

- Provision for gas/vacuum purging application (Ar, N2, O2, H2, CO2 etc.)
- Programmable PID Controller with RS-232/RS-485/Ethernet & Data Logging Software
- Available in standard or as per customer size requirement

### Standard Application

- Annealing
- Stress Relieving
- Hardening
- Tempering
- Normalizing
- Post Weld Heat Treatment
- Heat Treatment
- Wire Annealing
- Case Hardening
- Blueing
- Austempering
- Austenitizing
- Homogenizing
- Billet Heating
- Pre-Sintering
- Sintering
- Mould / Core Heating
- Preheating /
  Preheating for forging

---

**Tempsens Instruments (I) Pvt. Ltd.**

A-190 Road No.-5, M.I.A., Madri, Udaipur - 313 003 (Raj) INDIA
Ph.: +91-294-3052900, Fax.: +91-294-3052950,
E-mail: info@tempsens.com

[www.tempsens.com](http://www.tempsens.com)