## Standard Features

- **1180°C maximum temperature rating**
- **Air/Nitrogen/Hydrogen capable**
- **FEC (fully enclosed coil) heaters formed into ceramic insulation panels**
- **Water cooling**
- **Gas tight muffle**
- **Cross belt temperature of ±2°C for belt widths up to 36 inches**
- **Independent overtemperature control in each zone**
- **WINCON™ Multi-Language Control Software**
- **Closed loop belt speed control**
- **Atmosphere safety NFPA 86C compliant**

### Options

- **Heat/gas barriers to isolate gases**
- **Eductors for heating or cooling**
- **Venturi controlled exhaust stacks**
- **Atmosphere analyzer and sample systems**
- **Gas saturators for dew point control**
- **±1°C across belt uniformity (pre-test qualification)**
- **Water cooling control and alarms**
- **Belt cleaners**
- **UPS**

## Specification Table

<table>
<thead>
<tr>
<th>Standard Configuration*</th>
<th>Electronic Brazing TCA 6 inch</th>
<th>Glass to Metal Seal TCA 14 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atmosphere</td>
<td>Nitrogen or Hydrogen</td>
<td>Nitrogen or Hydrogen</td>
</tr>
<tr>
<td>Atmosphere purity**</td>
<td>2ppm O₂ and moisture</td>
<td>2ppm O₂ and moisture</td>
</tr>
<tr>
<td>Conveyor width</td>
<td>6 in (15cm)</td>
<td>14 in (36cm)</td>
</tr>
<tr>
<td>Heated length</td>
<td>72 in (183cm)</td>
<td>120 in (305cm)</td>
</tr>
<tr>
<td>Heated zones</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>Conveyor speed</td>
<td>1-6 ipm</td>
<td>1-6 ipm</td>
</tr>
<tr>
<td>Cooling length</td>
<td>60 in (152cm)</td>
<td>84 in (213cm)</td>
</tr>
<tr>
<td>Overall system height</td>
<td>60 in (152cm)</td>
<td>60 in (152cm)</td>
</tr>
<tr>
<td>Overall system width</td>
<td>36 in (91.4cm)</td>
<td>48 in (122cm)</td>
</tr>
<tr>
<td>Overall system length</td>
<td>23 in (701cm)</td>
<td>30.5 ft (930cm)</td>
</tr>
</tbody>
</table>

* Additional configurations available to meet your exact process requirements. **Less than background supply. Specifications subject to change without notice.
Controlled Atmosphere Furnace

Temperature Control
BTU’s muffle furnaces maintain temperature uniformity by utilizing automated thermal controls and segmented heated sections programmed and controlled by the WINCON® system software.

• Equipped with top and bottom heaters (side heaters optional)
• ±2°C across belt uniformity typical

Atmosphere Control

The Controlled Atmosphere Furnace from BTU features precise atmosphere controls to monitor critical parameters within the process chamber. The gas control panel is designed to operate in a safe/ failsafe manner while minimizing operator intervention.

• Achieves O2 and moisture levels of <2ppm and H2 purity of 95%
• Optional gas barriers provide isolation of gases for maximum atmosphere control
• Monitoring devices for flow and pressure confirm adequate gas supply
• Gas safety system monitors ignitors to ensure spent process gas is combusted prior to entering the atmosphere (Hydrogen) or (Reducing Atmosphere)

Eductor Heating/Cooling System

BTU’s patented eductors provide rapid convection cooling in a shorter footprint, saving time in the furnace. Eductors can also provide fast, controlled heating through convection flow of heated gas.

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