**PARTS LIST**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>Part #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>1</td>
<td>105615</td>
<td>2 Zone 1000°C UHV Heater Assembly</td>
</tr>
<tr>
<td>32</td>
<td>1</td>
<td>105683</td>
<td>12 CFF &amp; Outer Housing Assembly</td>
</tr>
</tbody>
</table>

**REVISION HISTORY**

<table>
<thead>
<tr>
<th>REV</th>
<th>DESCRIPTION</th>
<th>DATE</th>
<th>APPROVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Reduced OD from 8.500 to 8.250.</td>
<td>12/2/09</td>
<td>MC</td>
</tr>
</tbody>
</table>

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**Two Zone UHV Heater Assembly**

**Material:**

- 

**Material:**

- 

**Section A-A**

**Scale 1/6**

- **12 CFF, Non-Rotatable, Not Tapped**

- **4X \(\Omega\)1/4 Cu Power Feedthru**

- **1.54 Typ. (1 1/3 CFF Faces)**

- **1 1/3 CFF for Shutter Mount**

- **Spare 1 1/3 CFF**

- **4X Type K Thermocouple, Inconel Sheathed, \(\Omega\)1/16 x 18" Long, Not Grounded**

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Notes:
1. Estimated operation:
   Crucible Zone (filament temperature):
   - 20.5V, 27A @ 800°C (553W)
   - 27.2V, 32A @ 1000°C (870W)
   - 39.9V, 39A @ 1200°C (1556W)
   Nozzle Zone (filament temperature):
   - 2.3V, 27A @ 800°C (62W)
   - 2.9V, 32A @ 1000°C (93W)
   - 4.4V, 39A @ 1200°C (171W)
2. All internal threaded hardware is vented.