**1200°C Small Tube Furnace**

Our 1200°C Small Tube Furnace is easily operational, has an energy efficient design, fast cooling and rapid heat-up and response time. This unit offers superior radial and linear temperature uniformity and requires little or no maintenance. There are a variety of furnace sizes.

**Single Zone Model Features**
- Patented Moldatherm® LGOTM heating element modules
- Accepts interchangeable Moldatherm® tube adapters
- Long-life Platinel® II thermocouple(s) with 10TM compensated lead wire and polarized plug
- Split hinge design
- Temperature: 1200°C (2192°F) Maximum
- Bore Sizes
  - 12" heated length bored for 3/4" & 1" OD process tube
  - 36" heated length bored for 3"-6" OD process tube.

**Three Zone Model Features**
- Three independent power circuits (zones) with independent thermocouples for control reference
- Full adjustment of each zone over entire operating range to 1200°C
- Independent setpoint of end zones higher or lower than center
- Center zone uniformity achieved and operating length maximized
- Temperature: 1200°C (2192°F) Maximum
- Bore Sizes
  - 12" heated length bored for 3/4" & 1" OD process tube
  - 36" heated length bored for 3"-6" OD process tube.

### 1200°C Small Tube Furnace - SINGLE ZONE

<table>
<thead>
<tr>
<th>Model</th>
<th>Heated Length (inches)</th>
<th>Wattage</th>
<th>Voltage</th>
<th>Overall Dimensions (inches)</th>
<th>Bore Diameter (inches)</th>
<th>Use with Control Model</th>
<th>Use with Vertical Stand</th>
<th>Shipping Weight lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>55122</td>
<td>12 (30.5)</td>
<td>1,330</td>
<td>120</td>
<td>13x12x21 (32.5x30.5x53.3)</td>
<td>3/4 and 1 (1.9 and 2.5)</td>
<td>58114</td>
<td>551-VFS</td>
<td>60</td>
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<tr>
<td>55322</td>
<td>12 (30.5)</td>
<td>2,675</td>
<td>120,240</td>
<td>17x16x23 (43.2x40.6x58.4)</td>
<td>1 to 3 (2.5 to 7.6)</td>
<td>58114</td>
<td>553-VFS</td>
<td>120</td>
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<td>55332</td>
<td>18 (45.7)</td>
<td>4,240</td>
<td>240</td>
<td>17x16x29 (43.2x40.6x73.7)</td>
<td>1 to 3 (2.5 to 7.6)</td>
<td>58114</td>
<td>553-VFS</td>
<td>150</td>
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<tr>
<td>55342</td>
<td>24 (61)</td>
<td>5,440</td>
<td>240</td>
<td>17x16x35 (43.2x40.6x88.9)</td>
<td>1 to 3 (2.5 to 7.6)</td>
<td>58114</td>
<td>553-VFS</td>
<td>175</td>
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<tr>
<td>55642</td>
<td>24 (61)</td>
<td>8,710</td>
<td>240</td>
<td>21x20x37 (53.3x50.8x94)</td>
<td>3 to 6 (7.6 to 15.2)</td>
<td>58124</td>
<td>556-VFS</td>
<td>285</td>
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<tr>
<td>55662</td>
<td>36 (91.4)</td>
<td>12,194</td>
<td>240</td>
<td>21x20x49 (53.3x50.8x124.5)</td>
<td>3 to 6 (7.6 to 15.2)</td>
<td>58124</td>
<td>556-VFS</td>
<td>380</td>
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</table>

### 1200°C Small Tube Furnace - THREE ZONE

<table>
<thead>
<tr>
<th>Model</th>
<th>Heated Length (inches)</th>
<th>Zone Lengths (inches)</th>
<th>Wattage</th>
<th>Voltage</th>
<th>Overall Dimensions (inches)</th>
<th>Bore Diameter (inches)</th>
<th>Use with Control Model</th>
<th>Use with Vertical Stand</th>
<th>Shipping Weight lbs.</th>
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<tbody>
<tr>
<td>55347</td>
<td>24 (61)</td>
<td>8-8-8 (20.3-20.3-20.3)</td>
<td>5,355</td>
<td>240</td>
<td>17x16x35 (43.2x40.6x88.9)</td>
<td>1 to 3 (2.5 to 7.6)</td>
<td>58434</td>
<td>553-VFS</td>
<td>175</td>
</tr>
<tr>
<td>55367</td>
<td>36 (91.4)</td>
<td>12-12-12 (30.5-30.5-30.5)</td>
<td>8,025</td>
<td>240</td>
<td>17x16x47 (43.2x40.6x119.4)</td>
<td>1 to 3 (2.5 to 7.6)</td>
<td>58434</td>
<td>553-VFS</td>
<td>235</td>
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<tr>
<td>55647</td>
<td>24 (61)</td>
<td>8-8-8 (20.3-20.3-20.3)</td>
<td>7,840</td>
<td>240</td>
<td>21x20x37 (53.3x50.8x94)</td>
<td>3 to 6 (7.6 to 15.2)</td>
<td>58434</td>
<td>556-VFS</td>
<td>285</td>
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<tr>
<td>55667</td>
<td>36 (91.4)</td>
<td>12-12-12 (30.5-30.5-30.5)</td>
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<td>21x20x49 (53.3x50.8x124.5)</td>
<td>3 to 6 (7.6 to 15.2)</td>
<td>58434</td>
<td>556-VFS</td>
<td>380</td>
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</table>

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**1200°C Small Tube Furnace**

**Options**
- Digital communication kits allow modification and interrogation of all instrument control and configuration parameters from a remote computer using Lindberg/MPH provided SPECVIEW® software. Kits are available to interface with RS232 or RS422/485 communication ports.
- Atmosphere retorts are available when controlled atmosphere processing is required.
- Floor stand, for vertical installation. This option is required to support 55000 Series Tube Furnaces in a vertical configuration. Include all mounting hardware.
- Inert and Combustible atmosphere admission systems.

<table>
<thead>
<tr>
<th>Moldatherm Tube Adapters Use With Process Tube OD</th>
<th>Furnace 55114</th>
<th>Furnace 55124</th>
<th>Furnace 55434</th>
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<tr>
<td>Blank</td>
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<td>55529</td>
<td>55529</td>
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<tr>
<td>3/4&quot;</td>
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<td>55529</td>
<td>55529</td>
</tr>
<tr>
<td>1&quot;</td>
<td>55521</td>
<td>55521</td>
<td>55521</td>
</tr>
<tr>
<td>1.5&quot;</td>
<td>55522</td>
<td>55522</td>
<td>55522</td>
</tr>
<tr>
<td>2&quot;</td>
<td>55523</td>
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</tr>
<tr>
<td>2.5&quot;</td>
<td>55524</td>
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<td>4&quot;</td>
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<tr>
<td>5&quot;</td>
<td>55537</td>
<td>55537</td>
<td>55537</td>
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<tr>
<td>6&quot;</td>
<td>55538</td>
<td>55538</td>
<td>55538</td>
</tr>
<tr>
<td>Kits</td>
<td>59539</td>
<td>59539</td>
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<table>
<thead>
<tr>
<th>Model</th>
<th>58114</th>
<th>58124</th>
<th>58434</th>
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<tbody>
<tr>
<td>Preset TC Input</td>
<td>Platinel II</td>
<td>Platinel II</td>
<td>Platinel II</td>
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<tr>
<td>Preset Control Range</td>
<td>0-1200°C</td>
<td>0-1200°C</td>
<td>0-1200°C</td>
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<tr>
<td>Maximum Current/zone (Amps)</td>
<td>30</td>
<td>60</td>
<td>20-30-20</td>
</tr>
<tr>
<td>Voltage</td>
<td>208/240</td>
<td>208/240</td>
<td>208/240</td>
</tr>
<tr>
<td>Zones</td>
<td>1</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Hertz</td>
<td>50/60</td>
<td>50/60</td>
<td>50/60</td>
</tr>
<tr>
<td>Overall Size HxWxD inches (cm)</td>
<td>10 x 14 x 19 (25.4 x 35.6 x 48.3)</td>
<td>10 x 14 x 19 (25.4 x 35.6 x 48.3)</td>
<td>14 x 17 x 19 (35.6 x 43.2 x 48.3)</td>
</tr>
<tr>
<td>Shipping Weight lbs.</td>
<td>30</td>
<td>30</td>
<td>60</td>
</tr>
</tbody>
</table>

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