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LINDBERG/MPH

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

| 1200°C Small Tube Furnace - THREE ZONE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Model | Heated Length inches (cm) | Zone Length inches (cm) | Wattage | Voltage | Overall Dimensions inches (cm) | Bore Diameter inches (cm) | Use with Control Model | Use with Vertical Stand | Shipping Weight lbs. |
| 55347 | 24 (61) | 8-8-8 (20.3-20.3-20.3) | 5,355 | 240 | 17x16x35 (43.2x40.6x88.9) | 1 to 3 (2.5 to 7.6) | 58434 | 553-VFS | 175 |
| 55367 | 36 (91.4) | 12-12-12 (30.5-30.5-30.5) | 8,025 | 240 | 17x16x47 (43.2x40.6x119.4) | 1 to 3 (2.5 to 7.6) | 58434 | 553-VFS | 235 |
| 55647 | 24 (61) | 8-8-8 (20.3-20.3-20.3) | 7,840 | 240 | 21x20x37 (53.3x50.8x94) | 3 to 6 (7.6 to 15.2) | 58434 | 556-VFS | 285 |
| 55667 | 36 (91.4) | 12-12-12 (30.5-30.5-30.5) | 11,760 | 240 | 21x20x49 (53.3x50.8x124.5) | 3 to 6 (7.6 to 15.2) | 58434 | 556-VFS | 380 |

All specifications are subject to change without notice.

TPS
Lindberg/MPH is a brand of Thermal Product Solutions, LLC

Lindberg/MPH P.O. Box 131, 3827 Riverside Road Riverside, MI 49084
Phone: (269) 849-2700 • Fax: (269) 849-3021 • lindbergmph@lindbergmph.com
www.lindbergmph.com

# 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

| Moldatherm Tube Adapters Use With Process Tube OD | Furnace | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 55122 | 55322 | 55322 | 55432 | 55642 | 55662 | 55347 | 55367 | 55647 | 55667 |
| Blank | 59519 | 59529 | 59529 | 59529 | 59539 | 59539 | 59529 | 59529 | 59539 | 59539 |
| 3/4″ | 59510 | | | | | | | | | |
| 1″ | 59511 | 59521 | 59521 | 59521 | | | 59521 | 59521 | | |
| 1.5″ | | 59522 | 59522 | 59522 | | | 59522 | 59522 | | |
| 2″ | | 59523 | 59523 | 59523 | | | 59523 | 59523 | | |
| 2.5″ | | 59524 | 59524 | 59524 | | | 59524 | 59524 | | |
| 3″ | | 59525 | 59525 | 59525 | 59535 | 59535 | 59525 | 59525 | 59535 | 59535 |
| 4″ | | | | | 59536 | 59536 | | | 59536 | 59536 |
| 5″ | | | | | 59537 | 59537 | | | 59537 | 59537 |
| 6″ | | | | | 59538 | 59538 | | | 59538 | 59538 |
| Kits | | | | | 59539 | 59539 | | | 59539 | 59539 |

| Model | 58114 | 58124 | 58434 |
|---|---|---|---|
| Preset TC Input | Platinel II | Platinel II | Platinel II |
| Preset Control Range | 0-1200°C | 0-1200°C | 0-1200°C |
| Maximum Current/zone (Amps) | 30 | 60 | 20-30-20 |
| Voltage | 208/240 | 208/240 | 208/240 |
| Zones | 1 | 1 | 3 |
| Hertz | 50/60 | 50/60 | 50/60 |
| Overall Size HxWxD **inches (cm)** | 10 x 14 x 19 (25.4 x 35.6 x 48.3) | 10 x 14 x 19 (25.4 x 35.6 x 48.3) | 14 x 17 x 19 (35.6 x 43.2 x 48.3) |
| **Shipping Weight lbs.** | 30 | 30 | 60 |

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