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TPS
Thermal Product Solutions



Blue M

Blue M 1200°C Small Tube Furnace

Blue M 1200°C split hinge tube furnaces are configurable for horizontal or vertical use. Choose from single zone models of 12", 18", 24", and 36" heated lengths, and three zone models of 24" to 36" heated lengths. Furnaces use independent digital temperature control modules (ordered separately) which are available in standard or programmable options.

The split hinge design permits easy observation, fast cooling, convenient placement of the process tube and overall ease of operation. All models can be used with a variety of ceramic, quartz, or alloy process tubes (customer supplied), diameters to 6" depending on model. One set of tube adapters is included with each model

Features

Single-Zone Models

- 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
- Superior radial and linear temperature uniformity, fast heat-up and cool-down
- Requires little or no maintenance

Three-Zone Models

- 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
- Superior radial and linear temperature uniformity, fast heat-up and cool-down
- Requires little or no maintenance
- Center zone uniformity achieved and operating length maximized

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Single Zone Tube Furnaces								
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

Three Zone Tube Furnace									
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

Furnace											
Moldatherm Tube Adapters Use with Process Tube OD		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	1-1200°C	0-1200°C	0-1200°C
Maximum Current/zone (Amps)	30	60	20-30-20
Voltage	208/240	208/240	208/240
Hertz	50/60	50/60	50/60
Overall Size (HxWxD, inches)	10 x 14 x 19	10 x 14 x 19	14 x 17 x 19
	(25.4 x 35.6 x 48.3)	(25.4 x 35.6 x 48.3)	(35.6 x 43.2 x 48.3)
Zones	1	1	3
Shipping Weight (lbs.)	30	30	60

Specifications and Product Information is subject to change without notice.

TPS
Thermal Product Solutions

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