



TPS
Thermal Product Solutions

»» Blue M ASTM Testing Convection Oven

ASTM Testing Mechanical Convection Ovens

The Blue M ASTM Testing Mechanical Convection Oven is ideal for a number of industrial oven applications, including ASTM testing, epoxy curing, moisture drying, UL testing, aging of electronic components and devices, and other processes and testing requirements.

▶ **General ASTM Testing Mechanical Convection Oven Specifications**

- Temperature range: 15°C above ambient to 343°C (650°F)
- Uniformity: +/-1% of setpoint
- Control Accuracy: +0.5°C
- Resolution: +/-0.1°C
- Performance data (typical): Run-up to 300°C 60 min. (or less)

▶ **Uniform, Accurate and Reliable Temperature Control**

- Available with profiling or single setpoint temperature controls.
- Horizontal air flow assures uniform thermal performance under all loading conditions.
- Double plenum design with removable doors for thorough inner chamber cleaning.
- Exclusive Blue M Eterna heating elements - the most reliable available, with heavy-gauge high-temperature nickel chromium wire, low-watt density for longer service life, standard air flow switch on three-phase models to protect oven and product, and premium alumina ceramic element insulators.
- Blue M one-pass air flow controls your profile, including cool down with infinitely variable control from full recirculation to full one pass, and optional motorized damper for automatic operation.
- Direct drive blower multi-blade centrifugal blower with high-volume air delivery, dynamically balanced for minimum noise.



Condensed Specifications

Model	146 (Bench model)	206 (Bench model)	256 (Bench model)	296 (Floor model)	136 (Floor model)	336 (Floor model)	1406 (Floor model)	1506 (Floor model)
Interior Volume	1.6 cu. ft.	4.2 cu. ft.	5.8 cu. ft.	9 cu. ft.	11.0 cu. ft.	11.0 cu. ft.	24.0 cu. ft.	20.0 cu. ft.
Interior Dimensions WxDxH in(mm)	14 x 14 x 14 (356 x 356 x 356)	20 x 18 x 20 (508 x 457 x 508)	25 x 20 x 20 (635 x 508 x 508)	25 x 25 x 25 (635 x 635 x 635)	38 x 20 x 25 (965 x 508 x 635)	25 x 20 x 38 (635 x 508 x 965)	48 x 24 x 36 (1219 x 610 x 914)	37 x 25 x 37 (940 x 635 x 940)
Exterior Dimensions WxDxH in(mm)	34 x 30 x 43 (864 x 762 x 1092)	40 x 34 x 49 (1016 x 864 x 1295)	45 x 36 x 49 (1143 x 914 x 1245)	50 x 36 x 74 (1270 x 914 x 1880)	58 x 36 x 62 (1473 x 914 x 1575)	45 x 36 x 75 (1143 x 914 x 1905)	68 x 40 x 73 (1727 x 1016 x 1854)	58 x 42 x 75 (1473 x 1067 x 1905)
Machine Footprint	7.1 sq. ft.	9.4 sq. ft.	11.0 sq. ft.	11.0 sq. ft.	15.0 sq. ft.	11.0 sq. ft.	19.0 sq. ft.	17.0 sq. ft.
Electrical Service								
208 VAC 1 Ph 50/60 Hz Line current (per ph)	2.2 kW 14	3.0 kW 17	4.5 kW 25	6.0 kW 33	6.0 kW 33	6.0 kW 33	6.8 kW 38	6.8 kW 38
240 VAC 1 Ph 50/60 Hz Line current (per ph)	3.0 kW 16	4.0 kW 20	6.0 kW 29	8.0 kW 35	8.0 kW 35	8.0 kW 35	9.0 kW 44	9.0 kW 44
208 VAC 3 Ph 50/60 Hz Line current (per ph)	N/A	6.8 kW 20	9.0 kW 27	13.5 kW 40	13.5 kW 40	13.5 kW 40	18.0 kW 53	18.0 kW 53
240 VAC 3 Ph 50/60 Hz Line current (per ph)	N/A	9.0 kW 23	12.0 kW 31	18.0 kW 46	18.0 kW 46	18.0 kW 46	24.0 kW 61	24.0 kW 61
480 VAC 3 Ph 50/60 Hz Line current (per ph)	N/A	9.0 kW 12	12.0 kW 16	18.0 kW 23	18.0 kW 23	18.0 kW 23	24.0 kW 31	24.0 kW 31

All specifications are subject to change without notice.

► General Mechanical Convection Industrial Oven Specifications

- Temperature range: 15°C above ambient to 343°C (650°F)
- Uniformity: +/-1% of setpoint
- Control Accuracy: +0.5°C
- Resolution: +/-0.1°C
- Performance data (typical): Run-up to 300°C 60 min. (or less)

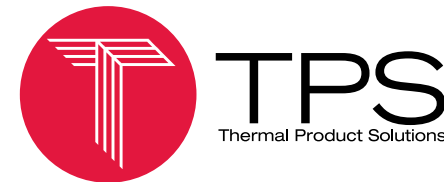
Empty chamber performance with exhaust closed and at rated voltage

► Standard Oven Options

- Nickel-plated wire rod or stainless steel slotted shelves
- Door switch
- 24-hour, 7-day digital process timer
- Circular chart recorder
- Reverse door hinge
- Glass observation panel(s)
- Floorstands
- Casters
- Comm-Link RS-485 to RS-232 converter

► Engineered Oven Options

- Additional lead-in ports
- Interior light
- Redundant over-temperature protection
- Rear access door(s)
- All stainless steel exterior construction
- Special control systems
- Space-saving stack oven design



Gruenberg, Blue M, Tenney

Mailing Address: P.O. Box 150 | White Deer, PA 17887-0150 | USA |

Phone: (570) 538-7200 | Fax: (570) 538-7380

Physical Address: 2821 Old Route 15 | New Columbia, PA 17856-9396

info@thermalproductsolutions.com

Specifications and Product Information are subject to change without notice.

THERMAL PRODUCT SOLUTIONS

» Blue M » Gruenberg » Lindberg/MPH » Tenney