

≫Blue M

146 Series Standard Oven

Mechanical Convection Standard Ovens

The Blue M Standard 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 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)

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.



			Cor	densed Specific	cations			
Model	146	206	256	296	136	336	1406	1506
	(Bench model)	(Bench model)	(Bench model)	(Floor model)	(Floor model)	(Floor model)	(Floor model)	(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	14 x 14 x 14	20 x 18 x 20	25 x 20 x 20	25 x 25 x 25	38 x 20 x 25	25 x 20 x 38	48 x 24 x 36	37 x 25 x 37
WxDxH in(mm)	(356 x 356 x 356)	(508 x 457 x 508)	(635 x 508 x 508)	(635 x 635 x 635)	(965 x 508 x 635)	(635 x 508 x 965)	(1219 x 610 x 914)	(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)	45 x 40 x 63 (1143 x 1016 x 1600)	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 Servi	ce			
208 VAC 1 Ph	2.2 kW	3.0 kW	4.5 kW	6.0 kW	6.0 kW	6.0 kW	6.8 kW	6.8 kW
60 Hz Line current	14	17	25	33	33	33	38	38
240 VAC 1 Ph	3.0 kW	4.0 kW	6.0 kW	8.0 kW	8.0 kW	8.0 kW	9.0 kW	9.0 kW
60 Hz Line current	16	20	29	35	35	35	44	44
208 VAC 3 Ph	N/A	6.8 kW	9.0 kW	13.5 kW	13.5 kW	13.5 kW	18.0 kW	18.0 kW
60 Hz Line current		20	27	40	40	40	53	53
240 VAC 3 Ph	N/A	9.0 kW	12.0 kW	18.0 kW	18.0 kW	18.0 kW	24.0 kW	24.0 kW
60 Hz Line current		23	31	46	46	46	61	61
480 VAC 3 Ph	N/A	9.0 kW	12.0 kW	18.0 kW	18.0 kW	18.0 kW	24.0 kW	24.0 kW
60 Hz Line current		12	16	23	23	23	31	31

All specifications are subject to change without notice.

General Mechanical Convection Industrial Oven Specifications

- \bullet 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
- Motorized intake damper (two-position or proportional)
- Welded and sealed inner chamber
- 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
- Oversized one-pass air flow system for faster cool down
- Redundant over-temperature protection
- Rear access door(s)
- All stainless steel exterior construction
- Special control systems
- Vertical air flow
- Space-saving stack oven design
- Trace solvent safety package
- N2 gas systems



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