



Blue M

146 Series Standard Oven

Mechanical Convection Standard Oven

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 350°C (650°F)
- Uniformity: $\pm 1\%$ of setpoint
- Control Accuracy: $+0.5^\circ\text{C}$
- Resolution: $\pm 0.1^\circ\text{C}$
- Performance data (typical): Run-up to 300°C 60 min. (or less)
- Safety airflow switch on single-phase models

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 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 356)	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

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 - 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

Specifications & Product Information is subject to change without notice.
Images for reference only.
Options and accessories may not be included with all models.



Gruenberg, Blue M, Tenney

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► 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 airflow system for faster cool down
- Redundant overtemperature protection
- Rear access door(s)
- All stainless steel exterior construction
- Special control systems
- Vertical airflow
- Space-saving stack oven design
- Trace solvent safety package
- N2 gas systems