

Blue M Mechanical Convection Ovens

146 Series Convection Ovens

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

Features

- Heavy gauge steel exterior and stainless steel interior with all exterior panels are at least 16 gauge and interior features reinforced 304 stainless steel.
- Welded construction contributes to Blue M's legendary strength & reliability.
- Fiberglass insulation – 4 full inches minimizes heat loss.
- Baked on powder-coated enamel finish for long-lasting corrosion protection.
- Blue M silicone door seal design for positive sealing of door.
- 3-inch diameter lead-in port in the center of the right side wall for customer test connections.

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.



Blue M

Blue M 146 Standard Oven Specifications

Model	146 (Bench model)	206 (Bench model)	256 (Bench model)	296 (Bench model)	336 (Floor model)	1506 (Floor model)	1406 (Floor model)
Interior Volume	1.6 cu. ft.	4.2 cu. ft.	5.8 cu. ft.	9.0 cu. ft.	11.0 cu. ft.	20.0 cu. ft.	24.0 cu. ft.
Interior Dimensions WxDxH in(mm)	14 x 14 x 14 (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)	25 x 20 x 38 (635 x 508 x 965)	37 x 25 x 37 (940 x 635 x 940)	48 x 24 x 36 (1219 x 610 x 914)
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)	45 x 36 x 75 (1143 x 914 x 1905)	58 x 42 x 75 (1473 x 1067 x 1905)	68 x 40 x 73 (1727 x 1016 x 1854)
Machine Foot-print	7.1 sq. ft.	9.4 sq. ft.	11.0 sq. ft.	11.0 sq. ft.	11.0 sq. ft.	17.0 sq. ft.	19.0 sq. ft.
Standard Oven Options							
208 VAC 1 Ph 50/60 Hz Line current (per ph)				6.0 kW 33		6.8 kW 38	6.8 kW 38
240 VAC 1 Ph 50/60 Hz Line current (per ph)				8.0 kW 35		9.0 kW 44	9.0 kW 44
208 VAC 3 Ph 50/60 Hz Line current (per ph)				13.5 kW 40		18.0 kW 53	18.0 kW 53
240 VAC 3 Ph 50/60 Hz Line current (per ph)				18.0 kW 46		24.0 61	24.0kW 61
480 VAC 3 Ph 50/60 Hz Line current (per ph)				18.0 kW 23		24.0kW 31	24.0kW 31

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
- Control and Monitor Software

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 air flow
- Space-saving stack oven design
- Trace solvent safety package
- N2 gas systems