



146 Series Clean Room Oven

Clean Room Mechanical Convection Oven

The Blue M Clean Room Mechanical Convection Oven is designed for a number of industrial oven applications, including curing polyamide coatings, moisture drying, baking photo resist coating and various pharmaceutical processes.

▶ Mechanical Convection Oven Features

- Heavy gauge steel exterior and stainless steel interior
- All exterior panels are at least 16 gauge.
- Fiberglass insulation - 4 full inches minimizes heat loss.
- Baked on powder-coated white enamel finish for long-lasting corrosion protection.
- Blue M silicone door seal design for positive sealing of door.
- Removable one-piece stainless steel interior interior features reinforced 304 stainless steel.
- All welded and sealed construction assures continuously low particle counts.
- Chamber vent port for exhausting of process by-products.
- Suitable for inert gas purge to eliminate moisture and vent out contaminants. adjustable inert gas flowmeter.



<i>Condensed Specifications</i>					
<i>Model</i>	146 (Bench model)	206 (Bench model)	256 (Bench model)	336 (Floor model)	1406 (Floor model)
Interior Volume	1.2 cu. ft.	3.4 cu. ft.	4.9 cu. ft.	9.4 cu. ft.	21.6 cu. ft.
Interior Dimensions WxDxH in(mm)	10.5 x 14 x 13.7 (267 x 356 x 348)	16.5 x 18 x 19.7 (419 x 457 x 500)	21.5 x 20 x 19.7 (546 x 508 x 500)	21.5 x 20 x 37.7 (546 x 508 x 958)	43.8 x 23.7 x 35.7 (1113 x 602 x 907)
Exterior Dimensions WxDxH in(mm)	29 x 29.2 x 45 (737 x 742 x 1143)	35 x 33.2 x 51 (880 x 843 x 1295)	40 x 33.2 x 51 (1016 x 843 x 1295)	40 x 34.6 x 77.2 (1016 x 879 x 1961)	63 x 38.6 x 75.2 (1600 x 980 x 1910)
Machine Footprint	5.9 sq. ft.	8.1 sq. ft.	9.8 sq. ft.	9.6 sq. ft.	16.9 sq. ft.
<i>Electrical Service</i>					
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	6.8 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	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	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	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	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 250°C
- Uniformity: ±1% of setpoint
- Control Accuracy: +0.5°C
- Resolution: ±0.1°C

Empty chamber performance with exhaust closed and at rated voltage

► Clean Room Oven Options

- Stainless steel slotted shelves
- 24-hour, 7-day digital process timer
- Circular chart recorder
- Reverse door hinge
- Floorstands
- Safety airflow switch on single-phase models
- Casters
- Comm-Link RS-485 to RS-232 converter
- ULPA filter

► Engineered Oven Options

- Lead-in pipes
- Redundant over-temperature protection
- Rear access door(s)
- All stainless steel exterior construction
- Special control systems
- Space-saving stack oven design
- Front and rear door interlocks
- Flanged for through-the-wall mounting
- Class 1000 clean room assembly and packaging



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