

NEOMER

Blue M[®]

146 Series Clean Room Mechanical Convection Ovens

The Blue M Clean Room Mechanical Convection Oven is designed for a number of laboratory and 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 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 flow meter.
- Safety air flow switch
- Exclusive Blue M Re-circulating HEPA Filtered Air Delivery System
 - Easily removable HEPA filter
 - All re-circulated air is continuously re-filtered; no use of cleanroom air
 - Hermetically sealed from the environment to eliminate risk of infiltration contamination



Condensed Specifications				
Model	206 (Bench model)	256 (Bench model)	336 (Floor model)	1406 (Floor model)
Interior Volume	3.4 cu. ft.	4.9 cu. ft.	11 cu. ft.	21.6 cu. ft.
Interior Dimensions WxDxH in(mm)	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)	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	8.1 sq. ft.	9.8 sq. ft.	13.9 sq. ft.	16.9 sq. ft.
Electrical Service				
208 VAC 1 Ph 50/60 Hz Line current	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	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	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	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	9.0 kW 12	12.0 kW 16	18.0 kW 23	24.0 kW 31

► General Mechanical Convection Industrial Oven Specifications

- Temperature range: 15°C above ambient to 250°C
- Uniformity: +/-2% of setpoint
- Control Accuracy: +0.5°C
- Resolution: +/-0.1°C

Empty chamber performance 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
- Casters
- Comm-Link RS-485 to RS-232 converter
- Oxygen Analyzer

► Engineered Oven Options

- Redundant over-temperature protection
- All stainless steel exterior construction
- Special control systems
- Space-saving stack oven design
- Flanged for through-the-wall mounting
- Class 1000 clean room assembly and packaging
- High temperature HEPA filter for operation to 350°C



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