

Blue M Industrial Batch Ovens

The Industrial Batch Ovens have for years been meeting a variety of test and production applications. Their reliability and fine performance have made them the choice of many industries.

Features

- 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.
- Double-wall, insulated doors with Blue M silicone rubber seal with double doors on 48-inch and larger models.
- Side-mounted control compartment for easier control access (60, 75, 80 and 96 cu. ft. models only).
- Adjustable exhaust system offers rapid cool down or operation close to ambient.
- Wiring - complete and enclosed to meet N.E. code, as amended.

Temperature Control

- Available with profiling or single set-point controls
- Horizontal air flow assures uniform thermal performance under all loading conditions.
- EXCLUSIVE BLUE M Eterna heating elements with low waft density for longer service life, and cylinder type to assure years of reliable service.
- Blue M one-pass air flow controls your profile, including cool down, infinitely variable control from full re-circulation to full one pass, and optional motorized damper for automatic operation.
- Direct drive blower - designed especially for these models, with no bearings, pulleys or belts, motor overload protection, multi-blade centrifugal blower, high-volume air delivery and dynamically balanced for minimum noise and maximum reliability.



Blue M

Blue M Industrial Batch Oven Condensed Specifications

General Specifications

Temperature range:

15°C above ambient to 316°C (600°F)

Uniformity: ±1.5% of set point (up to 36 cu. ft.); 2% of set point (larger than 36 cu. feet)

Control Accuracy: +0.5°C

Resolution: ±0.1°C

Performance data (typical):

Run-up to 300°C 45 min. (60 cu. feet or less); or 60 min (larger than 60 cu. ft.)

- Empty chamber performance with exhaust closed & at rated voltage -

Standard Batch Oven Options

- **Extended range:** Available to 399°C (750°F)
- Stainless steel slotted shelves
- High-temperature capability of 750°F
- High-power for fast heat-up, high exhaust or large loads
- Door switch
- Motorized intake damper
- Welded and sealed inner chamber
- 24-hour, 7-day program timer
- Circular chart recorder
- Reverse door hinge
- Interior light
- Glass observation panel(s)
- Redundant over temperature protection
- Comm-Link RS-485 to RS-232 converter
- Control and monitor software

Engineered Oven Options

- Additional lead-in ports
- Oversized one-pass airflow system for faster cool down
- Rear access door(s)
- All stainless steel construction
- Special control systems
- Five-drawer and five-door configurations for process flexibility

Roll-In-Rack Options

- Cold-rolled or stainless steel roll-in-racks
- Roll-in-rack shelves
- Special truck channel or flat un-insulated floor for customer designed racks
- Custom designed roll-in-racks for product fixturing
- Pass-through "tunnel" design with front and rear doors

Model	166		246		326		366	
Interior Vol. ft ³ (l)	16.0 (453)		24.0 (680)		32.0 (906)		36.0 (1020)	
Interior Dims. WxDxH in. (mm)	24x24x48 (607 x 607 x 1219)		36x24x48 (914 x 607 x 1219)		48x24x48 (1219 x 607 x 1219)		36x36x48 (914 x 914 x 1219)	
Exterior Dims. WxDxH in. (mm)	51x39x85 (1295 x 991 x 2159)		63x39x85 (1600 x 991 x 2159)		75x39x85 (1905 x 991 x 2159)		63x51x85 (1600 x 1295 x 2159)	
Machine Footprint sq. ft. (sq. m.)	13.8 (1.28)		17.1 (1.59)		20.3 (1.88)		22.3 (2.07)	
Electrical Services	Standard	High Power	Standard	High Power	Standard	High Power	Standard	High Power
208VAC 3 Ph 50/60 Hz Line current (/phase)	9 kW 29	13.5 kW 44	11 kW 33	16 kW 51	14 kW 42	20 kW 61	14 kW 42	20 kW 61
240VAC 3 Ph 50/60 Hz Line current (/phase)	12 kW 33	18 kW 50	14 kW 38	21 kW 58	18 kW 47	27 kW 70	18 kW 47	27 kW 70
480VAC 3 Ph 60 Hz Line current (/phase)	12 kW 17	18 kW 24	14 kW 19	21 kW 29	18 kW 24	27 kW 35	18 kW 24	27 kW 35

Model	606		806		966	
Interior Vol. ft ³ (l)	60.0 (1700)		80.0 (2266)		96.0 (2720)	
Interior Dims. WxDxH in. (mm)	36x48x60 (914 x 1219 x 1524)		48x48x60 (1219 x 1219 x 1524)		48x48x72 (1219 x 1219 x 1829)	
Exterior Dims. WxDxH in. (mm)	80x63x93 (2032x1600x2362)		92x63x93 (2339x1600x2362)		92x63x104 (2032x1600x2362)	
Machine Footprint sq. ft. (sq. m.)	35.0 (3.25)		40.2 (3.7)		40.2 (3.7)	
Electrical Services	Standard	High Power	Standard	High Power	Standard	High Power
208VAC 3 Ph 50/60 Hz Line current (/phase)	19 kW 59	26 kW 84	21 kW 67	30 kW 93	24 kW 76	NA
240VAC 3 Ph 50/60 Hz Line current (/phase)	24 kW 68	34.5 kW 92	28 kW 76	40 kW 106	32 kW 87	NA
480VAC 3 Ph 60 Hz Line current (/phase)	24 kW 34	36 kW 48	28 kW 38	40 kW 53	32 kW 43	48 kW 62