

The Blue M Standard Ultra-Temp® High-Temperature Oven is ideal for annealing, heat treating, stress relieving, binder burn-out, ceramic firing and a number of other high-temperature processes.

Features

- Heavy gauge steel exterior panels are at least 16 gauge.
- All welded and sealed inner chamber constructed of type 304 stainless steel eliminates fume migration into insulation.
- Full 1/2-inch steel front chamber mounting plate for strength and dimensional stability.
- All welded construction contributes to Blue M's legendary reliability and strength.
- Baked on powder coated enamel finish for long-lasting corrosion protection.
- Heat shielded doors for low skin temperature.
- Mineral wool insulation - 6 full inches to minimize heat loss.
- Blue M fiberglass tadpole door gasket design for positive sealing of door.
- Exclusive Blue M Pivot-Lock™ door latch assures optimal sealing of door gaskets at highest operating temperatures.
- Exclusive Blue M dual-gasket door seal design maintains seal integrity at temperatures to 704°C.
- Standard safety door switch shuts down heaters and blowers when door is opened.

Temperature Control

- Available with profiling or single setpoint temperature controls Horizontal air flow and assures uniform thermal performance under all loading conditions.
- Double plenum design is tuned for optimal uniformity and removable for cleaning.
- Exclusive Blue M Eterna™ heating elements
 - air flow switch for extra protection from burnout
 - low-watt density for longer service life.
- Original Blue M one-pass air flow to control your profile, including cool down
 - infinitely variable control for full recirculation to one full pass
 - optional motorized damper for automatic operation.
- Blower system is optimized for reliable high-temperature performance
 - multi-blade centrifugal blower with matched helical scroll
 - high-volume air delivery for uniform control at extreme temperatures
 - balanced for minimum noise and maximum reliability
 - lifetime lubricated motor

Blue M High- Temperature Convection Ovens

Ultra-Temp® Standard



Blue M

Blue M Ultra-Temp® Standard Oven Specifications

General Specifications

Temperature range: 15°C

above ambient to 704°C (1300°F)

Uniformity: +/- 2% of setpoint

Control Accuracy: +/- 0.5°C

Resolution: +/- 0.1°C

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

Ultra-Temp® Oven Options

- Stainless steel slotted shelves
- 24-hour, 7-day digital timer
- Circular chart recorder
- Reverse door hinge (6680, 7780)
- Motorized exhaust damper
- Redundant overtemperature protection
- Comm-Link RS-485 to RS-232 converter
- Control & Monitor Software

Engineered Oven Options

- Vycor® glass observation panel
- Lead-in ports
- Special control systems

Model	5580	6680	7780	8880	9980
Interior Volume	1.6 cu. ft.	4.2 cu. ft.	5.8 cu. ft.	11.0 cu. ft.	24.0 cu. ft.
Interior Dimensions WxDxH in(mm)	14 x 14 x 14 (355 x 355 x 355)	20 x 18 x 20 (508 x 457 x 508)	25 x 20 x 20 (635 x 508 x 508)	38 x 20 x 25 (965 x 508 x 635)	48 x 24 x 36 (1219 x 610 x 914)
Exterior Dimensions WxDxH in(mm)	44 x 32 x 61 (1117 x 812 x 1549)	52 x 36 x 67 (1321 x 914 x 1702)	55 x 38 x 67 (1397 x 965 x 1702)	77 x 39 x 72 (1956 x 991 x 1829)	91 x 45 x 77 (2311 x 1143 x 1955)
Machine Footprint	9.7 sq. ft.	12.5 sq. ft.	14.5 sq. ft.	24.0 sq. ft.	32.2 sq. ft.
208 VAC 3 Ph 50/60 Hz Line current (per ph)	9.0 kW 30	12.0 kW 38	15.7 kW 47	18.8 kW 59	22.5 kW 72
240 VAC 3 Ph 50/60 Hz Line current (per ph)	12.0 kW 34	16.0 kW 43	21.0 kW 54	25.0 kW 68	30.0 kW 82
480 VAC 3 Ph 50/60 Hz Line current (per ph)	N/A	16.0 kW 21	21.0 kW 27	25.0 kW 32	30.0 kW 41



Thermal Product Solutions

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Specifications and Product Information is subject to change without notice.