



## Ultra-Temp® Standard Convection Ovens

The Blue M Ultra-Temp® Standard, High-Temperature, Industrial Oven is ideal for annealing, heat treating, stress relieving and a number of other high-temperature processes that require temperatures above 350°C.



### ► General Ultra-Temp Oven Specifications

- Temperature range: 15°C (27°F) above ambient to 704°C (1299°F)
- Control Accuracy: +/- 1.0°C (+/- 1.8°F)
- Resolution: +/- 0.1°C (+/- 0.2°F)
- Workspace capacity: 1.6 to 24.0 cubic feet
- Uniformity: Blue M can provide varying levels of uniformity; if you have a specific tolerance or specification which must be met, please contact us with your requirements so we can ensure the equipment is designed, tested, and adjusted to meet those requirements

### ► Uniform, Accurate and Reliable Temperature Control

- Available with profiling or single set point temperature controls
- Horizontal air flow assures uniform thermal performance under most loading conditions
- Exclusive, adjustable, semi-pierced duct walls for tuning of air flow
- Exclusive Blue M Eterna heating elements – the most reliable available, with heavy-gauge high temperature nickel chromium wire and low-watt density for longer service life
- Air flow switch provided as standard to protect oven and product
- Adjustable one-pass air flow system – tempered air passes over heater(s) and through chamber only once if necessary readily adjusted to suit a broad range of product loads and operating requirements. Motorized damper available for automatic operation
- Multi-blade, centrifugal blower with high-volume air delivery and dynamically balanced for minimum noise

### ► Oven Features

- Fully welded and sealed construction
- Door switch (disables heat and circulation blower upon door opening)
- Heat shielded doors for minimal exterior temperature
- 6" of mineral wool insulation to ensure safe cabinet skin temperature and minimize heat loss
- Multiple shelf levels
- Heavy-duty door - double-wall, insulated construction
- Independent, over-temperature protection (high limit controller) included
- Corrosion resistant, stainless steel (type 304) interior
- All-welded, heavy-duty exterior with heavy-gauge, reinforced, cold-rolled steel
- Baked on white powder-coated enamel finish on exterior for long-lasting corrosion protection
- Every oven is fully assembled and individually factory tested
- Circuit breaker provided for ground fault protection as standard
- Three phase operation available in 50 Hz or 60 Hz
- Blue M fiberglass tadpole door gasket design for positive sealing of door
- Exclusive Blue M dual-gasket door seal design maintains seal integrity at temperatures to 704°C
- Full 1/2-inch steel front chamber mounting plate for strength and dimensional stability

Condensed Specifications					
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 inches (mm)	14 x 14 x 14 (356 x 356 x 356)	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 inches (mm)	40 x 33 x 64 (1016 x 838 x 1626)	46 x 37 x 70 (1168 x 940 x 1778)	51 x 39 x 70 (1295 x 991 x 1778)	64 x 39 x 75 (1626 x 991 x 1905)	100 x 43 x 78 (2540 x 1092 x 1981)
Machine Footprint	9.2 sq. ft.	11.9 sq. ft.	19.3 sq. ft.	17.4 sq. ft.	29.9 sq. ft.
Electrical Service					
208 VAC 3 Ph 60 Hz Line current	9.0 kW 30 FLA	12.0 kW 38	15.7 kW 47	18.8 kW 56	22.5 kW 72
240 VAC 3 Ph 60 Hz Line current	12.0 kW 34 FLA	16.0 kW 43	21.0 kW 53	25.0 kW 64	30.0 kW 82
480 VAC 3 Ph 60 Hz Line current	N/A	16.0 kW 20	21.0 kW 27	25.0 kW 32	30.0 kW 40

### ► Exclusive One-Year Warranty

Blue M warrants the equipment will be free from defects in material and workmanship for a period of one (1) year from the date of shipment (or from the installation date if this service is provided by TPS or a TPS approved partner and the date is approved by TPS). If a TPS Preventive Maintenance Plan is purchased before the end of the standard warranty period, these limited warranties shall be extended by one (1) additional year. If within the warranty period the original purchaser notifies Blue M in writing of an alleged non-conformity, and Blue M determines to its reasonable satisfaction that the product or service is in fact non-conforming, then Blue M shall, at its option and expense, repair or replace the non-conforming product or correct the non-conforming service, either at the original purchaser's facility, or Blue M's. Labor is only included for domestically installed units. Equipment installed outside of the United States (USA) will be one year parts only from date of shipment. For full details, exclusions, and other information on our warranty please go to: <https://www.thermalproductsolutions.com/support/blue-m>

### ► Available Oven Options

- Stainless steel slotted shelves
- Motorized intake damper (two-position or proportional)
- 24-hour, 7-day digital process timer
- Temperature recorders (paper or paperless)
- Reverse door hinge
- Swivel casters with leveling feet
- Programmable controller, Ethernet and USB communications
- Data logging and trending
- Variable frequency drive on circulation blower
- Lead-in ports (various locations available)
- Electro-mechanical or pneumatic door lock
- Emergency Power Off Pushbutton
- Emergency stop
- Light tower assembly with audible alarm
- Maintenance lock-out system
- Main power fused disconnect switch
- Redundant over-temperature protection (high limit controller)
- UL508A labeled control panel
- Alternative exterior finishes
- CE Mark

Please contact the factory to inquire on other available or engineered to order options.



**Baker Furnace, Blue M, Gruenberg, Lindberg/MPH,  
Lunaire, Tenney, Wisconsin Oven**

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Specifications and Product Information are subject to change without notice.