

The Blue M Inert Gas Ultra-Temp® High-Temperature Oven, pressure tested at operating temperatures, is suitable for all inert gases and non-flammable forming gases (maximum 8% hydrogen, balance nitrogen).

Features

- Heavy gauge steel exterior all exterior panels are at least 16 gauge
- All welded & sealed inner chamber construction eliminates fume migration into insulation.
- Interior constructed of 304 stainless.
- 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 temp. to 593°C.
- Standard safety door switch shuts down heaters and blowers when door is opened.

Uniform, Accurate and Reliable Temperature Control

- Available with profiling or single setpoint temperature controls
- Horizontal air flow assures uniform thermal performance under all loading conditions.
- Exclusive Blue M inert gas controls
 - purge timer to assure full chamber inerting
 - chamber pressure gauge & press. relief valve
 - adjustable flowmeter and purge bypass valve
- Exclusive Blue M air-cooled chamber design
 - forced air cooling surrounds sealed inner chamber to control cool down
 - prevents oxidation and contamination of product from outside air
- Exclusive Blue M gas delivery system
 - gas introduced at the blower shaft ensures proper mixing and eliminates the possibility of air being drawn into the chamber
 - maintains positive chamber pressure at all times
- High-temperature blower system
 - optimized for reliable high-temperature performance
 - multi-blade centrifugal blower with matched helical scroll
 - high-volume air delivery for uniform control at extreme temp.
 - dynamically balanced for minimum noise and maximum reliability
 - lifetime lubricated motor.

Blue M High-Temperature Convection Ovens

Ultra-Temp® Inert Gas



Blue M

Blue M Ultra-Temp® Inert Gas Oven Specifications

General Specifications

Temperature range: 15°C above ambient to 593°C (1100°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)
- Oxygen Analyzer
- Motorized exhaust damper
- Redundant overtemperature protection
- Comm-Link RS-485 to RS-232 converter
- Control and Monitor Software

Engineered Oven Options

- Lead-in ports
- Special control systems

Model	6680	7780	8880	9980
Interior Volume	4.2 cu. ft.	5.8 cu. ft.	11.0 cu. ft.	24.0 cu. ft.
Interior Dimensions WxDxH in(mm)	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)	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	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)				
	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)				
	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)				
	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.