

Blue M stacked ovens have earned a long-standing reputation for exceptional performance, long service life and ease of operation over a broad range of applications. The STL series integrally stacked Blue M mechanical convection oven is suitable for curing, drying, and baking in semiconductor, electronic, and many other industrial applications.

## Features

### Heavy gauge steel exterior and stainless steel interior

- all exterior panels are at least 16 gauge.
- features reinforced 304 stainless steel.

### Removable stainless steel interior

- permits easy access for periodic cleaning.
- interior features reinforced 304 stainless steel.

### All welded and sealed construction

- assures chamber integrity.

### Fiberglass insulation

- 4 full inches minimizes heat loss.

### Baked-on powder-coated blue enamel finish

- for long-lasting corrosion protection.

### Blue M silicone door seal design

- for positive sealing of door.

### Chamber vent port

- for exhausting process by-products.

### Suitable for inert gas purge

- to eliminate moisture and vent out contaminants.
- adjustable inert gas flowmeter.

## Temperature Control

Available with profiling or single setpoint temperature controls

### Horizontal air flow

- assures uniform thermal performance under all loading conditions.

### Double plenum design

### All stainless steel cooling coil

- speeds cool down without risk of contamination.
- allows near ambient operation depending on cooling water temperature.

### Exclusive Blue M Eterna™ heating element

- most reliable available.
- low-watt density for longer service life.
- premium alumina ceramic element insulators minimize contamination.
- standard air flow switch to protect oven and product.
- Uniform, Accurate and Reliable Temperature Control

# Blue M STL-05 Stacked Ovens



# Blue M

## Blue M STL-05 Stacked Oven Specifications

### General Specifications

**Temperature range:** 15°C above ambient to 316°C (650°F)

**Uniformity:** ±1% of setpoint

**Control Accuracy:** +0.5°C

**Resolution:** ±0.1°C

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

### Oven Options

- 24-hour, 7-day digital process timer
- Circular or strip chart recorder
- RS232/RS485 communications converter
- Control and Monitor Software
- Light tower
- Emergency power off switch (EMO)
- SpecView data acquisition software
- NIST traceable certificate of calibration
- Dry box oven with N<sub>2</sub> gas system
- Redundant overtemperature protection
- Door interlocks
- Reverse door hinges

### Engineered Oven Options

- Lead-in ports
- All stainless steel exterior construction
- Special control systems
- Class 1000 clean room assembly and packaging
- Customer specified options as factory proposed and authorized
- 5-point thermocouple survey
- Temp. deviation alarms
- Filtered process air/atmosphere intake
- N<sub>2</sub> low flow switch alarm
- N<sub>2</sub> low pressure switch alarm

Model	STL-05 Stacked Oven
Interior Volume	5.8 cu. ft. (164 l)
Interior Dimensions WxDxH (inches)	25 x 20 x 20 inches 635 x 508 x 508 mm (per oven)
Exterior Dimensions WxDxH (inches)	52.3 x 49 x 74 inches 1328 x 1245 x 1880 mm (per oven)
Machine Footprint	17.75 sq. ft. 1.65 sq. meters
Electrical Service - per oven	
208 VAC 1 Ph 50/60 Hz Line current (per ph)	4.2 kW 25 Amps
240 VAC 1 Ph 50/60 Hz Line current (per ph)	6.0 kW 29 Amps
208 VAC 3 Ph 50/60 Hz Line current (per ph)	9.0 kW 27 Amps
240 VAC 3 Ph 50/60 Hz Line current (per ph)	12.0 kW 31 Amps
480 VAC 3 Ph 50/60 Hz Line current (per ph)	12.0 kW 16 Amps