

Ozone Exposure Chamber

TEST INSTRUMENTS



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Ozone levels will challenge the colorfastness of common fabrics as those used in products from denim clothing to home interior fabrics. SDL Atlas now offers a more accurate and reliable way of testing. The Ozone Exposure Chamber allows for accelerated testing to evaluate these effects using precise closed-loop control of ozone concentrations.

M287A & M287B

Ozone Exposure Chamber & Ozone Exposure Chamber *plus*

The SDL Atlas Ozone Exposure Chambers determine the resistance of the color of textiles to the presence of ozone in the atmosphere at room temperature with relative humidities not exceeding 67 percent.

The instrument offers a high output ozone generator, touch screen controller, closed-loop ozone concentration control and a rotating sample rack that can hold up to 24 specimen. Easy set-up features allow both set and current test parameters to display on the screen, providing increased control and accuracy in test results.

Two models are available.

The **Ozone Exposure Chamber *plus*** offers higher ozone concentrations and a more precise control, while the **Ozone Exposure Chamber** is the economical model capable of performing a basic test.





ONE

Ozone Concentration

Both instruments feature a high output ozone generator. The higher level **Ozone Exposure Chamber plus** is equipped with an UV Absorption Sensor capable of control accuracy of +/-5% at ozone levels up to 10 ppm, allowing for high ozone concentration testing. The economical **Ozone Exposure Chamber** comes with an HMOS sensor capable of a control accuracy of +/-20% at ozone levels up to 5 ppm. Both testers are equipped with a life time counter for the ozone generator. A fully-loaded chamber can reach a 5 ppm ozone concentration set point in about 5 minutes.

TWO

Touch Screen Controller

The ozone tester's display features a 7" touch screen panel with large icons and bright sharp color, creating an easy control interface with clear set-up instruction. The instrument can be programmed to warm up hours before a test is performed.



THREE

Test Chamber

A stainless steel test chamber features a large UV-blocking glass viewing window and closed-loop ozone concentration control. The rotating sample rack has capacity to hold up to 24 specimen. An LED chamber light with auto-off function offers improved viewing.

FOUR

Safety

For added safety, the instruments feature a door safety interlock system, exhaust with ozone scrubber and negative chamber pressure design with exhaust monitoring.



FIVE

Calibration & Service

An on-site, annual calibration is available for peace of mind or the more precise UV Absorption Sensor can be sent to SDL Atlas for calibration. Both methods of calibrations are NIST traceable. The instruments also feature service reminders for replacing the ozone scrubbers as well as the ozone generators.



OZONE EXPOSURE CHAMBERS

STANDARD CONFIGURATION

M287A – with Economical HMOS Sensor
 M287B – with Precise UV Absorption Sensor

CONSUMABLES

HMOS Sensor (Lifetime: about 2 years, M287A only)
 Scrubber Catalyst

CALIBRATION

UV Absorption Analyzer – On-site or returned, annual and NIST traceable
 HMOS – On-site, annual and NIST traceable

SPECIFICATIONS	M287A Ozone Exposure Chamber	M287B Ozone Exposure Chamber plus
Control	7" LCD Touch Panel	
Ozone Sensor	HMOS (Heated Metal Oxide Semiconductor)	UV Absorption Analyzer
Range	2 - 5 ppm	2 - 10 ppm
Accuracy	+/- 20% at 5 ppm	+/- 5% at 2 - 10 ppm
Capacity	24 Samples	
Chamber Size	358L x 328W x 280H (mm)	
External Size	780L x 480W x 500H (mm)	
Power	230 VAC or 120 VAC, 50/60Hz, 5A	
Testing Standards	AATCC 109	ISO 105-G03



SDL Atlas LLC
 3934 Airway Drive Rock Hill, SC 29732-9200,
 USA
 Telephone: +1 803 329 2110
 Facsimile: +1 803 329 2133
 Internet: <http://www.sdlatlas.com>

SDL Atlas Ltd
 1/F (South-East) & 2F, Shenjian Mansion,
 Central District (West), Hi-Tech Park, Nanshan,
 Shenzhen, 518057, P.R.C.
 Telephone: +86 (755) 2671 1168
 Facsimile: +86 (755) 2671 1337
 Internet: <http://www.sdlatlas.com>

SDL Atlas Ltd
 3J, Garment Centre, 576 Castle Peak Road,
 Kowloon, Hong Kong.
 Telephone: (852) 3443 4888
 Facsimile: (852) 3443 4999
 Internet: <http://www.sdlatlas.com>

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