



Q-SUN Xe-1 and Xe-3 Xenon Test Chambers

Sunlight, heat and moisture cause millions of dollars in product damage every year. This damage includes the fading, color change, strength loss, cracking, crazing, embrittlement and gloss loss. Products exposed to direct sunlight, sunlight through window glass or harsh indoor lighting are most at risk.

The Q-SUN® Xenon Test Chamber can be used to simulate and accelerate outdoor or indoor service conditions. It is useful for both R&D and quality control applications.

Full Spectrum Sunlight

Xenon lamps provide the most realistic simulation of full spectrum sunlight including UV, visible and infrared wavelengths.

Optical Filters

The xenon light is filtered to achieve various spectra such as direct daylight, or sunlight behind window glass. The Q-SUN tester's optical filters maintain the required spectrum and, unless broken, never need replacement.

Irradiance Control

The SOLAR EYE® Irradiance Control System continuously monitors and precisely maintains the set point by automatically adjusting power to the lamps.

Moisture

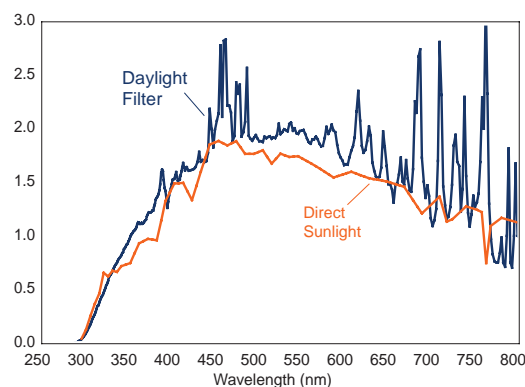
The Q-SUN machine's water spray cycle is useful for thermal shock and mechanical erosion. Water spray periods are programmable.

AUTOCAL

Use the Q-SUN chamber's radiometer to calibrate the SOLAR EYE Irradiance Control System. The patented AUTOCAL® system automatically transfers the calibration measurements to the controller, eliminating operator error and costly service visits. Regular calibration is recommended for compliance with ISO.



Q-SUN models range from an entry level, bench-top model to a full-featured tester with humidity control, water spray, and chiller.



Daylight filters provide the closest match to the full spectrum of sunlight.



Outdoor moisture attack is simulated by spraying pure water onto specimens.

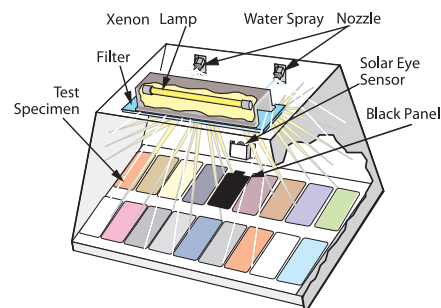


Calibrating your Q-SUN tester's irradiance and temperature is simple using the Universal Calibrator system.

Q-SUN Xe-1

- Bench-top size
- Economical
- Available with chiller, water spray & more

This is an economical, single lamp model with full capabilities. Its small scale is perfect for a lab that has a limited budget or a limited amount of lab space. Installation is simple, and you can vent the Q-SUN tester into the room. Models are available with water spray and/or chiller for room temperature exposures.

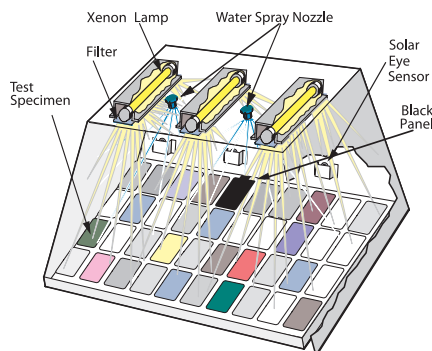


A diagram of the parts of the Q-SUN Xe-1.

Q-SUN Xe-3

- Full-size tester
- Easy to operate & maintain
- Models with chiller, water spray, dual spray & more

Our full-featured, full-sized tester represents a breakthrough in xenon pricing. It uses three lamps and has a large specimen capacity. Models are available with relative humidity control, water spray and/or chiller for room temperature exposures. Dual spray is also available for applications such as acid rain testing.



A diagram of the parts of the Q-SUN Xe-3.



3-D specimens can be placed directly on the specimen tray and in most cases do not require a specimen holder.

Two Sizes, Many Options

Choose the economical, table-top Q-SUN Xe-1 or the free-standing, larger capacity Q-SUN Xe-3.

- Back Spray available with Xe-3
- Dual Spray available with Xe-3
- Chiller available with Xe-1 & Xe-3
- 3-D specimen mounting
- Large selection of optical filter



Lower temperature testing is possible with the optional chiller which can serve as the base of the Xe-1.

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