



# Q-SUN Xe-2 Xenon Arc Test Chamber

The Q-SUN Xe-2 rotating rack xenon arc chamber reproduces the damage caused by full-spectrum sunlight and rain. In just a few days or weeks, the Q-SUN Xe-2 tester can reproduce the damage that occurs over months or years outdoors.

The Q-SUN Xe-2 tester is a full-featured weathering, lightfastness and photostability chamber at a breakthrough price. It provides precise control of critical test parameters including spectrum, irradiance, relative humidity, chamber temperature and black panel/black standard temperature. Water spray is also an option. The versatile Q-SUN Xe-2 tester is the simplest, most reliable, and easiest to use rotating rack xenon arc tester available.

## Features

- Full spectrum sunlight simulation
- Rotating rack design with large specimen capacity
- Air-cooled for ultimate reliability and ease of maintenance
- Small floor space requirement
- Lowest operating costs in the industry



Featuring a rotating drum design, reliable air-cooling and a full range of optical filters, the Q-SUN Xe-2 xenon tester is the newest standard in lightfastness and weathering testing.

## Full Spectrum Sunlight Simulation & Optical Filters

Xenon arc lamps give the best reproduction of full-spectrum sunlight. Q-SUN lamps are air-cooled (not water-cooled), which makes them more economical, highly efficient and very low maintenance.

The Q-SUN Xe-2 model's optical filter lanterns are designed to meet the spectra specified in a wide variety of global weathering and lightfastness test standards. Xe-2 lanterns consist of an outer borosilicate or quartz glass cylinder and two sets of 7 inner filters, arranged in a two-tier heptagon.



The Xe-2 lantern.



The Xe-2 allows for precise irradiance and temperature control.

## Precision Irradiance & Temperature Control

The patented SOLAR EYE® irradiance control system continuously monitors and precisely maintains the irradiance set point in the Q-SUN Xe-2 tester by automatically adjusting power to the lamps.

Temperature control is important because it affects the rate of degradation. Specimen exposure temperature is precisely controlled in the Xe-2 using insulated or uninsulated black panel and chamber air temperature sensors.



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

## Humidity & Optional Water Spray

Relative humidity (RH) control is standard in the Q-SUN Xe-2 tester. It allows the user to simultaneously display and control RH, black panel temperature, and chamber air temperature.

Outdoor moisture attack is simulated via an optional pure water spray in the Xe-2 tester. A spray nozzle located in the top of the chamber can be programmed to operate during either the dark or light cycle. Note that purified water is required for proper operation of the water spray and RH features in the Xe-2 tester.

## AUTOCAL Calibration & User Interface

Calibration of the Q-SUN Xe-2 chamber's on-board sensor is quick and easy. The patented AUTOCAL® system automatically transfers the calibration measurements from the CR20 handheld radiometer to the Xe-2 controller, eliminating operator error and costly service visits. Regular calibration is recommended for ISO compliance.

Designed to be both functional and easy to use, the Q-SUN Xe-2 controller can be programmed in five user-selectable languages. The controller constantly monitors the status and performance of all systems. It also displays simple warning messages, routine service reminders or performs safety shutdowns, as needed.



**The Q-SUN Xe-2 controller is remarkably simple to program.**



**The Q-SUN Xe-2 has a large specimen capacity, supporting 31 specimens.**

## Large Specimen Capacity & Small Footprint

The Q-SUN Xe-2 tester has a large specimen capacity, supporting 31 specimens of 46 mm x 122 mm each. Its vertically mounted specimen holders are very easy to install and remove, with both open and solid-back holders available. ISO and AATCC textile masks are also available.

The Q-SUN Xe-2 tester also has a smaller footprint when compared to competitive weathering and lightfastness testers. Typical maintenance items can be readily accessed through the front or top of the machine, further minimizing floor space requirements. The tester also fits through a standard doorway.

## Lowest Operating Costs in the Industry

The Q-SUN Xe-2 tester was specifically designed to meet the requirements of most international weathering standards, while minimizing operating costs. The Xe-2's low purchase price, low lamp prices, and low operating and maintenance costs set a new standard for lightfastness testers. Now even the smallest lab can afford rotating rack xenon lightfastness testing.

Q-Lab also offers an optional advanced water repurification system to further minimize operating costs. Unlike competing systems that simply recirculate dirty water, Q-Lab's advanced repurification system repurifies water, in addition to conserving up to 1,000 liters of expensive, purified water per day.



**Q-Lab's water repurification system takes up minimal lab space.**

## Q-Lab Corporation

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