

Accelerated Weathering Testers



Will Your Product Last Outdoors?

Find out fast with the QUV. Nearly every product exposed to outdoors is subject to damage from the elements. Will your product last outdoors? The QUV can help give you answers.

The QUV uses alternating cycles of UV light, moisture and high temperature to simulate the effects of sunlight, rain and dew. But unlike Mother Nature, the QUV does not make you wait months for results.

Sunlight Simulation

Although UV makes up only about 5% of sunlight, it is responsible for most of the sunlight damage to polymer materials exposed outdoors. Therefore, it is not necessary to reproduce all the wavelengths of sunlight for testing polymer degradation. For most durable materials, it is only necessary to reproduce the shortwave UV.

Affordable & Easy to Use

The QUV's system of alternating UV with moisture allows exceptional realism and control in a design that is easy to install, easy-to-use, and almost maintenance free. The QUV operates completely automatically, 24 hours per day, 7 days a week.

The QUV is surprisingly economical to purchase and operate. You'll find that it will quickly pay for itself by saving in operating costs.



All models of QUV use condensing humidity to simulate the effects of rain and dew on your specimens. In addition, the QUV/spray allows direct water spray for thermal shock and erosion.

QUV Models

Model QUV/se features the Solar Eye® Irradiance Controller for precise control of UV light intensity. This assures more reproducible test results and allows compliance with ISO calibration requirements. With Solar Eye, you can increase the irradiance to 1.75 times noon summer sunlight.

Model QUV/spray is the same as the QUV/se, except it also is equipped with direct water spray.

Model QUV/basic provides UV light and moisture testing, but does not have precise, adjustable control of light intensity. The QUV/basic is the ideal choice for labs where economy is critical.



Test specimens are mounted in convenient snap-ring holders.

All the Features You Need

Whether you choose the QUV/se, QUV/spray, or QUV/basic, these testers offer the features you need.

- Fast, Realistic Results
- Easy-to-Use
- Solar Eye® Irradiance Control*
- Condensation System Uses Tap Water
- Quick & Easy Calibration with AutoCal*
- ISO, ASTM, SAE Compliance
- User Serviceable
- Small Footprint
- Self Diagnostics
- Automatic Shut-down Timer

*Not available in QUV/basic

QUV

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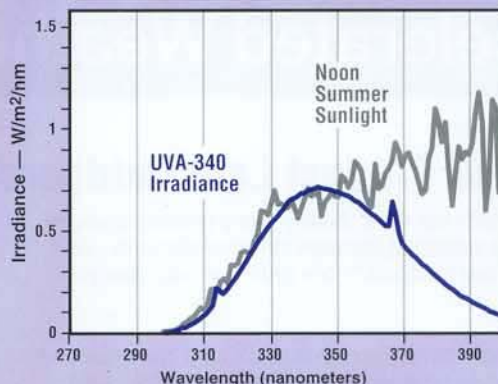
QUV Advantages



In a few days or weeks, the QUV can reproduce the damage that occurs in months or years outdoors. Q-Lab Florida provides natural and accelerated contract weathering services.

- Simulate Years of Damage in Days or Weeks
- Programmable UV, Temperature & Moisture
- Easy-to-Use & Affordable
- Complies with ISO & ASTM

UVA-340 vs. Sunlight



The UVA-340 is the best available simulation of sunlight from 365 nm down to the solar cut-off of 295 nm.

Fluorescent Lamps

Several types of UV lamps are available, all of which produce mainly ultraviolet light rather than visible or infrared. The lamps differ in the total amount of UV energy emitted and in their wavelength spectrum. For example, UVA-340 is the best available simulation of sunlight UV, while UVB-313 offers maximum acceleration by utilizing short-wave UV that is more severe than normally found on the earth's surface. Different lamps will usually give different test results. The exposure application dictates which lamps should be used. See Q-Panel Technical Bulletin LU-8016 "Choice of Lamps" for application guidelines.

Fluorescent Lamp Advantages

- Fast Results
- Easy Simplified Irradiance Control
- Stable Light Spectrum
- Minimal Maintenance
- Low Price and Operating Cost

The QUV is the World's Standard Weathering Tester.

Thousands of labs in hundreds of countries trust QUV to provide realistic and reproducible research results. It conforms to numerous national and international specifications and test methods including ISO 4892, ASTM G151, G154, D4329, D4587, D4799, and SAE J2020.

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