



## Material Testing Systems



### Super Acceleration UV Weathering Chamber

- EYE Lighting/Iwasaki proprietary metal halide based high output UV lamp delivers 10 times acceleration of typical weathering chambers.
- Correlated acceleration factors up to 100 times natural solar UV irradiation provides efficient extended outdoor exposure evaluation testing.
- Spectral filtering cuts UV irradiation below 295nm to replicate natural sunlight.
- Electronic feedback system ensures constant energy to target material.
- Built in datalogger for data storage and simple transfer to common programs such as MS-Excel.
- Fully programmable including temperature, humidity, rainfall, UV power, and custom cycle setup.

#### Applications

- Pigment, Polymer, Development Testing
- Outdoor Product Material Life Testing
- PV Material Durability Testing
- Small PV Module Testing

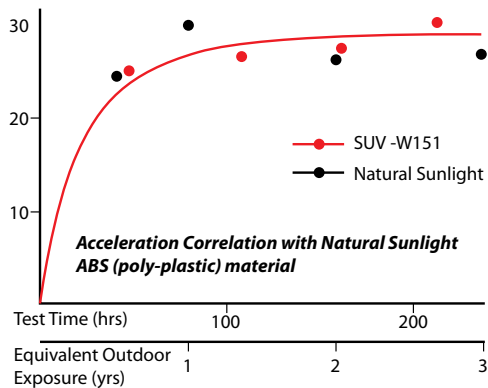


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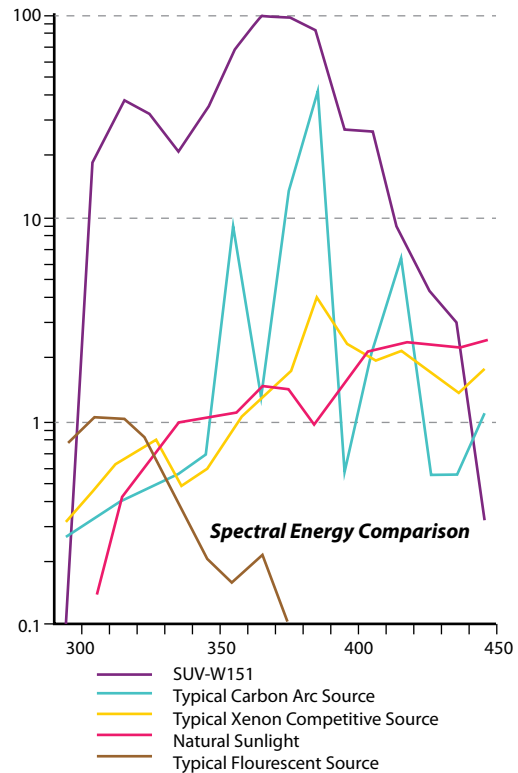
Part #	Description
93700	SUV-W151 Super UV Solar Simulation Weathering Chamber

#### Basic Specifications

- **UV Solar Lamp:** EYE/Iwasaki proprietary metal halide UV lamp with water cooling jacket
- **Spectrum Class:** Filtered UV 295nm – 450nm
- **Effective Irradiation Area:** 190mm (7.5in) x 422mm (16.5in)
- **Weathering Functions:** Irradiation Power, Temperature, Humidity, and Rainfall (shower); cycle and durations are programmable
- **Test Duration:** Programmable from 0.1hr to 9999.9hrs
- **Data Acquisition:** Built in datalogger with CF card for data transfer (csv) to MS-Excel or equivalent programs
- **UV Irradiation Power:** Programmable, up to 1500W/m<sup>2</sup>; feedback controlled by internal UV irradiation sensor
- **UV Irradiation Distribution:** Uniformity ratio ≥ 90%
- **Temperature Control:** Irradiation period 50°C to 85°C Pause period 35°C to 75°C (with ambient at 20°C)
- **Humidity Control:** 40-90% (dependent on BP temperature)
- **Cycle Control:** Continuous irradiation or programmable cycleoperation; (1) Continuous irradiation; (2) Irradiation > pause; (3) Irradiation > condensation; (4) Irradiation > condensation > pause; (5) Irradiation > pause > condensation
- **Lamp Life:** Approximately 1500 hours
- **Input Power (max):** Three phase 208V AC; 21kVA; max 65A
- **Dimensions:** 1800mm (70.8in)H x 1400mm (55.1in)W x 1200mm (47.2in)D
- **Weight:** Approximately 700kg (1540lbs)
- **NOTE:** chamber requires external water purifier (deionizer) and external chiller (approximately 3.5ton)



EYE Lighting/Iwasaki solar lighting experience provides the expertise to assist you in the development of solar simulation systems specific to your application requirements. We welcome the opportunity to work with you to solve your application requirements.



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