



APPLIED OPTIX™

Weathering Test Chamber



Super Xenon Weathering Chamber

- Designed for compliance testing to international test standards (ASTM, ISO, JASO, JIS, SAE, etc.)
- Xenon arc lamp produces full spectrum solar compliant light with optical filter combinations
- Standard and high irradiance options
- Irradiance, temperature, spray, dew/dark, and humidity control
- Large sample capacity rotating specimen holder
- Internal UV calibration and control circuits, 340nm, 300-400nm and 420nm bandwidths



Applications

- Most common test methods
- Pigment, Polymer, Material Testing
- Outdoor Product Material Life Testing
- PV Material Durability Testing
- Small PV Module Testing



Super Xenon Weathering Chamber

Model	XER-W83	
Lamp type	Water-cooled 7.5kW xenon-arc lamp	
Filter	Inner: Quartz glass Outer: Borosilicate glass	
Test Variable Options	Irradiance, Temperature, Spray (front/back), Dew/Dark, and Humidity Control	
Temperature control range	Light cycle	BPT: 40°C to 110°C BST: 40°C to 120°C
	Dark cycle	Tank internal temperature: 25°C to 95°C
Humidity	Light cycle	10%Rh to 75%Rh
	Dark cycle	95%Rh ±5%Rh
	Dew cycle	Dark + Back Shower
Separate sample and ambient temperature control	Examples: Maintain chamber interior at 65°C with BPT at 89°C, Maintain chamber interior at 38°C with BPT at 63°C	
Irradiance (standard intensity)	20 W/m ² to 70 W/m ² (at 300 nm to 400 nm)	
Irradiance (high intensity)	60 W/m ² to 180 W/m ² (at 300 nm to 400 nm)	
Sample capacity	Standard intensity: 108 pieces (70 mm × 150 mm) High intensity: 54 pieces (70 mm × 150 mm)	
Drum rotation speed	1 rpm, 2 rpm, 3 rpm, 6 rpm, 12 rpm	
Sample thickness	1 mm to 10 mm	
Irradiation intensity sensor	One sensor (standard) Up to three sensors possible (optional)	
Data recording	USB flash drive	
External dimensions	1,400 mm (W) × 1,600 mm (D) × 1,850 mm (H)	
Installation environment condition	Ambient temperature: 5°C to 35°C relative humidity: 40%RH to 90%RH (no con-densation)	

