



TESTRONIX[®]
INSTRUMENTS

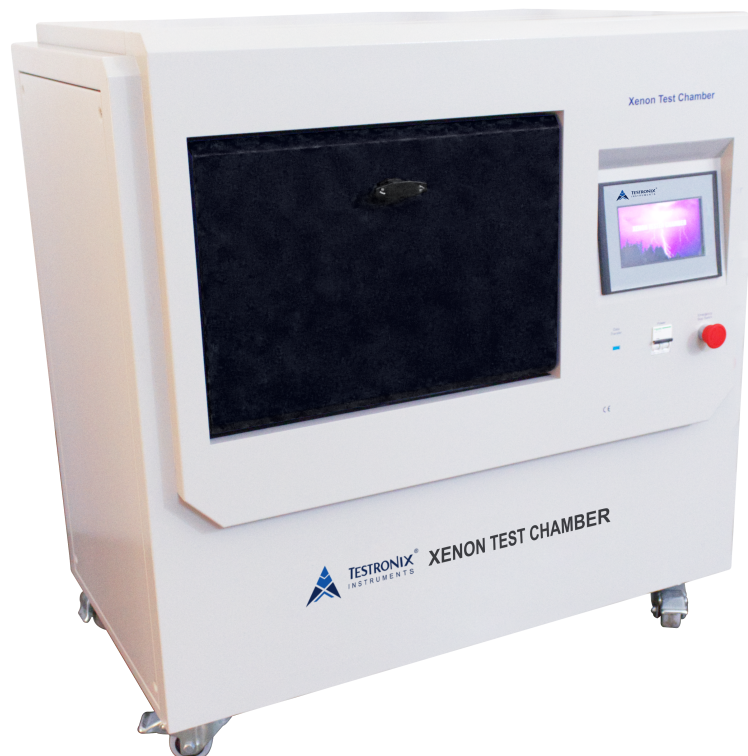


Testronix Xenon Weathering Test Chamber

The Testronix Xenon Weathering Test Chamber is a high-performance, compact testing solution designed to simulate real-world sunlight exposure using a xenon arc light source. This advanced test system enables accurate prediction of product durability under environmental stresses such as UV radiation, temperature fluctuation, moisture, and rainfall simulation.

Powered by a 1.8 kW air-cooled xenon lamp imported from the USA, the chamber offers precise control over irradiance, temperature, and humidity to meet international standards for lightfastness and material aging tests. Its small footprint makes it ideal for QA labs and R&D centers with limited space, while still delivering powerful performance and highly repeatable results.

Model No. : TX XTC 100





Key Technical Features & Functions

Feature	Details
Programmable Test Profiles	Store up to 16 custom test procedures; each procedure allows 10 segmented conditions.
Irradiance Energy Control	"Closed-loop" feedback system automatically compensates for lamp aging, ensuring consistent light output.
Cumulative Energy Mode	Allows tests to terminate automatically after the set total energy exposure is achieved.
Spray Function	Programmable spray duration and interval to simulate dew and rain effects.
Temperature Control	High-precision Pt100 sensor controls black panel temperature (BPT) automatically; adjustable from RT+20°C to 90°C.
Humidity Monitoring	Display real-time relative humidity within the test chamber.
Calibration Friendly	Manual calibration of irradiance and BPT is quick and user-accessible.
Alarm & Safety Functions	Over-temp (BPT), irradiance error, door-open shutdown, and low air pressure protections included.
Touchscreen Interface	Intuitive touch panel allows easy operation, real-time monitoring, and test setup.
Data Export	USB port for exporting logged data directly; supports long-duration unattended testing.
Specimen Handling	Unique slide-out specimen tray makes loading/unloading fast and safe.

Applications

Ideal for quality control, material validation, and R&D, the Testronix Xenon Chamber serves diverse industries:

Paints & Coatings Accelerated aging, color fading, gloss reduction

Plastic & Polymers UV degradation, discoloration, brittleness

Automotive Interior/Exterior- SAE J2412 / J2527 compliance

Textiles & Inks Light fastness and print durability assessment

Packaging Materials Shelf-life simulation under UV/moisture stress





Technical Specification

Parameter	Specification
Xenon Lamp	1.8 kW (Air-cooled, imported from USA)
Filter Options	Daylight filter (Optional: Extended UV or Window Glass filter)
Lamp Life	Approx. 1.500 hours
Exposure Area	1,000 cm ² (Fits 9 samples of 150 mm x 70 mm)
Irradiance Range	30-100 W/m ² (300-400 nm) 0.3 0.8 W/m ² (@340 nm) 0.5-1.5 W/m ² (@420 nm)
Irradiance Control Points	340 nm, 420 nm, 300—400 nm (simultaneous display)
Black Panel Temp. Range	RT + 20°C to 90°C (depending on ambient and irradiance)
Interior Chamber Material	SUS 304 Stainless Steel
Chamber Size (LxWxH)	1000 mm x 650 mm x 1020 mm
Net Weight	135 kg (Gross: 176 kg)
Power Supply	220V, 50/60 Hz (Single phase)
Max. Current / Power	12 A/ 2.5 kW

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OUR OTHER PRODUCTS :-

Salt Spray Chamber FRP	Humidity Chamber	Vibration Table	COF Tester	Muffle Furnace	CMC - Asia

