



UV Weathering Chamber Accelerated

We all know polymers are used in different industries to design products. It is important for polymer testing manufacturers to test the effects of polymers against different environmental conditions.

Hence, we at Testronix have designed high-quality laboratory testing equipment known as UV testing chamber that will simulate the effects of weather on plastics and polymers. This quality testing instrument is provided with a uniformly rotating sample rack for uniform reception of irradiance to the samples.

By exposing materials to controlled UV radiation, researchers can simulate the effects of long-term exposure in a much shorter period, allowing them to quickly identify weaknesses or failure points in materials, and make improvements or modifications to their design or formulation as needed. This can help improve the overall quality, safety, and longevity of materials used in a wide range of products. It has been made in accordance with industry standards that include **ISO – 4892-3:2013**, **ASTM D 4329-13**, **ASTM D 4587-11**, and **ASTM G-151-10**. This will ensure accuracy in test results.

MODEL NO. TX-UV ACC W





FEATURES

- The instrument is provided with a uniformly rotating sample rack for uniform reception of irradiance to the samples.
- The instrument consumes very low power.
- Best for simulation of natural environments with great accuracy.
- Economic testing instrument with low maintenance cost.
- Incorporated with components made from stainless steel that makes it rust proof.
- Adheres to all the international and national standards.
- The machine offers latest touch screen features to operate the instrument easily.
- The instrument ensures that every specimen will get the same amount of irradiance energy. Hence, enhances the repeatability and comparability of the test outcomes.
- The tester helps to compare the actual specimen and the tested product easily.
- The machine helps to find out the damage that formed on the specimen in a very short span of time.
- The instrument offers highly convenient and friendly windows to view the test results.
- Fluorescent UV lamps as testing light source
- Irradiance controlled automatically (within closed loop system)
- Alarm and protection feature: Creep-age, water breaking, overloading, over temperature
- Real-Time data collection

SPECIFICATION

- The instrument operates on a power voltage of 220+22 V/50+0.5 Hz
- The settable range of temperature for test is RT +5°C ~80°C
- UV A - 340nm Wavelength
- UV B 313nm Wavelength
- The timing range of the testing procedure can range from 1 hour to 99999 hours. The spray timing can be adjusted from 1 minute to 99999 minutes.
- The maximum irradiance that is offered by the instrument is 0.1 W/m² to 1.0 W/m². The distance between the lamp wall and the test sample is 50 mm.
- The speed of the rotation of the sample frame is 3.7 rpm.
- The flow of the water pump is ≤7 liters per minute.
- The specifications of the test sample are 150 mm x 70 mm.

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