

UV Light Weathering Chamber - HMI Touch Screen



Product Info :

UV Light Weathering Chamber - HMI Model brings the latest generation testing modules to evaluate the effect of extreme weather conditions on a product. It is a superior and highly efficient equipment that is useful for assessing the damage caused to a product due to sunlight, rain and dew. The UV weathering tester reproduces real-life weathering or ageing conditions in an accelerated manner within the chamber and is designed to deliver results of years of ageing within a few hours of the test. It is popularly utilized for testing the resistant quality of moulded /extruded rubber materials against a wide range of environmental conditions using precision-based components like UV lamps, water sprayers and fluorescent light sources. The equipment is designed as per globally acclaimed test standards like ISO 4892-3:2012, ASTM D4329-13 for Plastic, ASTM D4587-11 for paints or coatings, and ASTM G-151-10 for

Nonmetallic Materials. Products made up of rubber, plastic or any non-metals make a huge portion of our daily life, ranging from household products like utensils, toothbrushes, and furniture to industrial products like equipment parts, tyres, etc. Most of these products are tend to be exposed to water, sunlight, or moisture air. These weather factors when surfaces on daily use product for long they lead to material cracking. If a manufacturer gets an idea about their product's resistant capacity against such environmental conditions they can make changes in the composition or categorize the materials as per their quality for further use.

In order to know the performance of any material way before they are used in the production line, one must conduct, Accelerated weathering test.

TECHNICAL DATA :

- Display: HMI Based Touch Screen
- Chamber Temperature Range: $\pm 5^{\circ}\text{C} \sim 80^{\circ}\text{C}$
- Chamber Temperature Least Count: 0.1°C
- Chamber Temperature Repeatability: $\pm 2^{\circ}\text{C}$
- Timer Range (Test Temperature): 1-99999 hour
- Timer Range (Spray Period): 1-99999 Min
- Timer Range (Spray): 1-99999 Min
- Life of lamp: 1600 hour
- Max. Irradiance: UVA lamps: 0.7 W/m^2
- UVB lamps: 0.4 W/m^2
- Speed of sample rotating frame: 3.7 rpm
- Temperature Control: Pt-100 Sensor
- The flow of water pump: 7 L/min
- Inlet supply of water pressure: 2 kg/cm^2
- Power Requirement: 220V, Single phase, 50 Hz, 15 A

FEATURES :

- The Latest HMI touch screen brings complete system controls in a single touch.
- Display touchscreen allows the user to set Temperature, Preset Timer, Program profile for test parameters.
- One can view the current test running status on the display screen along with test time, chamber temperature, spray time, and accumulated time.
- Allow fully automatic test once the parameters are set.
- Automated rapid resumption of UV Lights, water spray and humidity during continuous circulation
- Corrosion Resistant PT-100 sensors to ensure higher precision in the test
- Robust Construction of test chamber allows higher performance for a long time
- Rotating test fixtures allow easy sample placements inside the test chamber

Our Valuable Customer



Pacorr Testing Instruments Pvt. Ltd.