

Air-cooled Light & Weather Fastness Tester

Air-cooled Xenon Lamp Weatherproof Test Chamber: Utilizing a xenon lamp as the light source, this chamber is designed for conducting aging tests on specimens. The specimens are exposed to xenon arc lamp light and thermal radiation to evaluate their resistance to high-temperature light sources, assessing both light and weather resistance. This chamber finds applications in the testing of paints and coatings, rubber, plastics, pigments, waterproof materials, adhesives, fabrics, and more. chemicals, building materials, medical, aerospace and other products quality testing.



Features:

Superior performance, advanced light source The instrument uses a powerful 2.5 kW long arc xenon lamp that faithfully mimics the solar spectrum. Cutting-edge wireless transmission and detection technology, using light energy conversion to provide energy directly, without external power supply. Optical filters are made of high-quality fluorine material.

Superior energy efficiency and longer test durability High transmittance filters with over 95% light transmittance are an environmentally friendly solution that reduces energy consumption. 1000 hours of continuous testing.

Intelligent control and real-time monitoring: Digital irradiance settings, real-time monitoring and automatic closed-loop adjustment with a choice of control bands (340 nm, 420 nm, 300-400 nm and 300-800 nm). A standard black panel thermometer, synchronised RF transmission for accurate sample status and an intelligent multi-stage ultrasonic humidification control system ensure stable and precise test conditions.

Versatile and easy to use: Multiple operating modes (spray, alternating, rotating and rotating) simulate real climatic conditions. All sample racks have a timer function to facilitate testing of different samples, reduce operating costs and provide power failure protection.

User-friendly interface for easy control:

Equipped with a large 10.4-inch colour touch screen to minimise membrane panel failures. Provides various test monitoring modes (animation, digital, curve) for easy and clear control.

Standards:

Meets the following criteria but is not limited to
GB/T 8427 ISO 105 B02 AATCC 16.3

Specification:

Blackboard Standard temperature control range: 50~130°C, resolution 0.1°C.

Blackboard panel temperature control range: 45~125°C, resolution 0.1°C

Testing chamber temperature control range: 30~85°C, resolution 0.1°C.

Testing chamber humidity control range: 10~95%RH (Bright cycle≤70%RH, Dark cycle≤95%RH), resolution 0.1%RH.

Time control of test range: 0~9999hours59min; precision±1min.

Control of irradiance range: 0.8~2.20W/m² @420nm, ±0.02W/m² @420nm; (@340nm, @300-400nm, @300-800nm) digital setting, automatic compensation.

0.2~0.8W/m² @340nm ±0.01W/m² @340nm;

30~80 W/m² @300-400nm ±2W/m² @300-400nm;

400~1100 W/m² @300-800nm ±10W/m² @300-800nm;

Light source: Rated power of xenon arc lamp: 4.5KW.

Specimen: a. Rotation speed of specimen holder: adjustable between 1-7rpm.

b. Dimensions and amount of specimens to be mounted and clamped: 35 pieces of 145×75mm sample plates or 46 pieces of 145×45mm sample plates.

c. Individual timing for each specimen gripper≤10000h.

d. Specimen thickness≤4mm.

Power source: 3-phase 4-wire system. The ground wire needs to be external.

External dimensions: 1260×850×1880mm(L×W×H)

Weight: 400kg

ChiuVention INSTRUMENT LTD

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