

Water-Cooled Light & Weather Fastness Tester

Water-Cooled Light & Weather Fastness Tester, to simulate the effect of sunlight, and condensing humidity to simulate rain and dew, placing the material under test in a cyclic procedure of alternating light and moisture at a certain temperature for testing, and it takes days or weeks to reproduce the hazards that occur in the outdoors for months or even years, and artificially accelerates the weathering test data. It is suitable for testing the colour fastness of textiles. Tests include light, weathering and perspiration effects. And it provides a comprehensive colour fastness assessment for pigments, paints, rubber, plastics, flooring and paper.



Standards:

AATCC TM16-3
ISO 105-B04
GB/T14576
GB/T1685
AATCC TM16-4
ISO 105-B06
GB/T 8430
GB/T16991-2008
AATCC TM16-5
ISO 11341
GB/T 18102
GB/T15102-2006
ISO105-B02
GB/T8427-2008
GB/T 28998
GB/T15104-2006

Features:

Various functions to meet different testing needs
Meet the requirements of different standards on the stability of the test light source, with digital setting of light intensity, real-time monitoring and automatic adjustment function (monitoring band can be 420 nm, 340 nm or 300-400 nm).

Real-time display of test data
Blackboard panel thermometer (BPT) or blackboard standard thermometer (BST) can be selected. The machine is equipped with BST, which is tested at the same station with the specimen, reflecting the actual test conditions of the specimen. The test data is processed by the central processor and displayed on the colour screen in the form of figures, graphs and curves, so there is no need to stop the machine for observation.

Multi-purpose, simple and convenient operation
10.4-inch colour IPC display control, multiple test monitoring modes (digital, graphical), easy to operate, intuitive and clear.
Realise individual timing for each specimen gripper, different specimens can be tested on one machine, convenient for testing and monitoring.

Stable operation and intelligent temperature adjustment
Specialised water purification and circulation system reduces running costs. Intelligent air conditioning system regulates the temperature of the test chamber quickly and stably. The integrated self-circulation system and air filtration system greatly reduces environmental requirements.

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

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