

TF420

Light & Weather Fastness Tester

This Weatherometer is equipped with calibrated lamps, specific filters, very accurately monitored irradiance, purified water, controlled atmosphere (humidity and temperature) and predefined light, dark and rain cycles durations to simulate a lighting exposure environment (both light and dark cycles), to determine color fastness to light, weather and light aging of various colored textiles and other materials, as for these applications, you can call this weatherometer a light fastness tester or fadeometer.



Features

humidity sensors, ultrasonic humidifier are imported from USA, Japan, Germany, etc.

Blackboard Thermometer (BPT), the Standard Blackboard Thermometer (BST), Irradiance detector and samples placed in the same position, a true reflection of the sample under test conditions, the data displayed as figures, charts, curves on the large color screen, no need to stop for observation.

Detection and wireless transmission using light energy conversion technologies for energy, not the other home power supply.

Sample holders can be timed independently to achieve different tests simultaneously in the same machine

Rated 2500W long arc xenon lamp simulate daylight spectrum.

Industrial temperature control (cooling) system offers quickly and smoothly control

Set of Sample Holders, set of Blue Wool Fabric (L1~L8), Gray Scale (Changing), Arc xenon Lamp and other

Standards:

ISO 105-B02, GB/T 8427,
ISO 105-B04, GB/T 15102-2006

Specifications

Working modes: To simulate and reinforce the impact of the nature of the measured object, providing light and dark, temperature and humidity, raining and other quantitative indicators.

Irradiance: 0.80 ~ 1.50W/m² @ 420nm (340nm, 300~400nm, 300~800nm is offered on request), Digital set, automatic closed-

loop compensation

Irradiance accuracy: ± 0.02W/m² @ 420nm

Light source: 2500W air-cooled long-arc xenon lamp

Sample holder: ISO / GB 16 Pcs, can hold samples 135 x 45mm

AATCC 8 Pcs, can hold samples 140 x

75mm

Temperature range: 25 ~ 50 °C, Resolution 0.1 °C

Humidity range: Bright cycle 10 ~ 70% RH,

Dark cycle 30 ~ 95%, R. H.

resolution 0.1%

Test time control: ≤ 10000h

Rotation speed of sample holder: 5 rpm

BPT Range: (40 ~ 80) +/- 2 °C

BST Range: (40 ~ 85) +/- 1 °C

BST: (40 ~ 85) +/- 1 °C

Power: 220 V 50 Hz 6.5KW

Weight: 250kg

Dimensions: 1050 x 660 x 1680 mm

TESTEX INSTRUMENT LTD

TESTEX is one of the leading developers and textile testing equipment manufacturers since 2010, focusing on developing and manufacturing instruments used in textile industry all over the world.

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TF422

Water-cooled Light & Weather Fastness Tester

Light & Xenon Test Chamber (weathermeter), water-cooled type testing chamber, is to determine the color fastness, aging resistance of textiles, plastics, rubber products or materials after being exposed to the simulated conditions of nature weather (daylight, rain, temperature and humidity, etc.). This weatherometer is also called xenon arc test chamber since it adopts a water-cooled long-arc-xenon lamp and rack sprays to provide both light and dark cycles and nature weather conditions. Due to its final testing purpose is to check the color fading features, people also name it as Fadeometer. What's more, you can choose a Light & Weather Fastness Tester to test the textile's colorfastness test.



Features

- Sample holders can be timed independently to achieve different tests simultaneously in the same machine.
- Equipped with a Water-cooled rated 4500W long-arc-xenon-lamp truly simulates the daylight spectrum.
- Professional water circulation system, reduce operating costs.
- Industrial temperature control (cooling) system offers quickly and smoothly control.
- Ultrasonic humidifier, professional dehumidification system to ensure accurate and stable humidity conditions.
- Equipped with a self-circulation system and air filtration system, significantly reducing the environmental requirements.
- Cooled by circulating water chillers/water cooling, two options to choose from.
- Quality assurance of 1000 hours continuous running.
- Front and back sides spray pattern on samples.

Standards

AATCC 16.3, ISO 105-B02, ISO 105-B04,
GB/T 8430, GB/T 14576, GB/T 15102

Specifications

- Light source: 4500W Water-cooled long-arc xenon lamp
- Temperature range: 30~85°C +/- 2°C
- Humidity range: 20% ~ 95% RH +/- 5% RH
- Average lifetime: 1200 h
- Test time control: 1000h
- Rotation speed of sample holder: 1 rpm
- Independent timing of sample holder: ≤ 1000h
- BPT Range (40 ~ 80): +/- 2°C
- BST Range (40 ~ 85): +/- 1°C
- Irradiance range: (0.8 ~ 1.400) +/- 0.02 W/m² @ 420nm (35 ~ 55) +/- 1 W/m² @ 300 ~ 400 nm Other range can be digitally set and automatic compensation
- Sample holder: 210 x 45 mm, the max. The thickness of sample can be 8mm, 25 samples holders, 250 samples could be tested in the same time
- Working modes To simulate and reinforce the impact of the nature of the measured object, providing light, temperature, humidity, rain and other quantitative indicators.
- Weight: 550kg
- Power: 380 V 50 Hz 15 kw
- Dimensions: 1260 X 850 X 1880 mm
- Pure Water Filter: 650 * 870 * 1310 mm

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