

QINSUN

Stable Reliable Consistent



Water-cooled Light & Weather Fastness Tester **SI4000**



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Water-cooled Light & Weather Fastness Tester

— Test for color fastness to sunlight of material

SI4000 water cooled sunlight fastness tester -The color and properties change of textile dyes can be tested by using argon arc lamp to simulate and control the most ideal natural climate and daylight experiment conditions. The aging resistance of materials can also be tested, and the service life of products can be accurately tested on the basis of good repeatability and reproducibility.

SI4000 Water-cooled Light & Weather Fastness Tester

1.The instrument simulates natural climate and artificial daylight by changing temperature, humidity and spraying, and is used for testing the change of color and performance of textiles and dyes.Reliable simulation of full spectrum sunlight, testing the aging resistance of materials. SI series is water-cooled insolation testing machine, with light energy loop control, irradiation energy monitoring, humidity loop control, blackboard temperature loop control, multi-point energy monitoring, reliable ionless water system, different filter combination.

2.The test environment provided by 6500w xenon lamp and ultrasonic humidifier is used to carry out simulation tests under different solar spectra and various climatic conditions, so as to achieve the stability of the test process and high repeatability of test results in a short time .



Standards compliant

GB/T 2424.14-1995 Environmental Tests for Electrical and Electronic Products -- Part 2: Test Methods -- Guidelines for Solar Radiation Tests

GB/T 8427-2008 Color Fastness and Color Fastness to Artificial Light Tests of Textiles: Xenon Arc

GB/T 8430-1998 Color Fastness and Color Fastness to Artificial Weather Tests of Textiles: Xenon Arc

GB/T 2423.24-1995 Environmental Tests for Electrical and Electronic Products -- Part 2: Tests-- Simulation of Solar Radiation on the Ground

GB/T 16422.2-1999 – Test Method of Exposure for Light Sources in Plastics Laboratory - Part 2: Xenon Arc Lamps

GB/T 18652009 Artificial Climate Aging of Paints and Varnishes and Xenon Arc Radiation Filtered by Artificial Radiation Exposure

GB/T 12831-1991 Test Method for Aging of Vulcanized Rubber in Artificial Climate (Xenon Lamp)

GB/T 5137.31996 Test Method for Radiation, High Temperature, Moisture, Combustion and Simulated Climate Resistance of Automotive Safety Glass

GB/T 162591996Test Method of Accelerated Color Aging of Colored Building Materials under Artificial Climate

ASTMG155、ISO10SB02/B04 Design and Manufacture of Relevant Standards



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SI 4000 Water-cooled Light & Weather Fastness Tester —Several Major Features



Intelligent touch screen control panel

Microcomputer control system, more efficient and more reliable, programmable 7 inch color LCD touch screen, control, detection, calculation, data display and other functions.



powerful software function

Enhanced control system can handle complex custom procedures and simple pre-programming test, simple operation page icon is clear and easy to understand;Irradiance, temperature and humidity are adjustable.



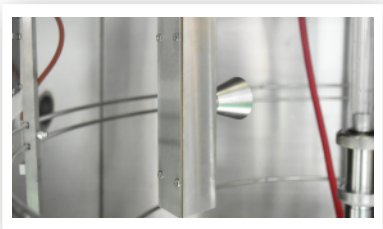
Multidirectional protection design

Instrument with irradiance monitoring, lamp power monitoring, water quality monitoring, temperature monitoring, water level to limit, lack of protection, water flow monitoring, dry burning protection, leakage protection



large test area

Imported xenon lamp, new water-cooled xenon lamp cooling system, good cooling effect, low cooling water consumption, large experimental box, can test up to 65 samples at a time, the sample rack can be rotated, improve the exposure consistency of all



Irradiance closed-loop monitoring and automatic regulation

The instrument can meet a variety of band light source testing, can be regularly through the irradiance calibration device automatic calibration, irradiance calibration device through the certification of the authority of the metering institutions.



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SI 4000 Water-cooled Light & Weather Fastness Tester — Field Application



SI4000 water cooled sunlight fastness tester is widely used in plastics, paint coating, ink, packaging, automotive materials, photochemical materials, pigment dyes and textiles and other industries.



It is applicable to the performance verification of new products, quality control of the production department, and the of material properties for the third-party testing organization, the product performance verification laboratory, and the quality and technical supervision department, etc.



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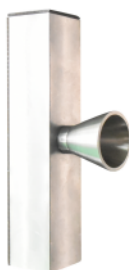
SI 4000 Water-cooled Light & Weather Fastness Tester — Configuration parameter

Standard configuration



400001

Filter element



400002

Irradiance 340nm



400003

Blackboard temperature monitoring



400004

Black label thermometer monitor



400005

4000 hours spares kit

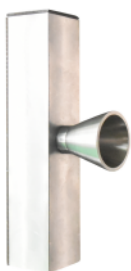


400006

Sample fixture /set

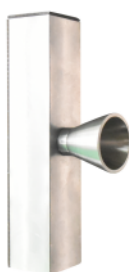
SI 4000 Water-cooled Light & Weather Fastness Tester — Configuration parameter

Optional Accessories



400007

Irradiance 300-400nm



400008

Irradiance 420nm



40009

Sample brake sack (100pcs/pack)



400010

ultrapure water machinepure



400011

water chiller (3KW)



400012

American standard color gray card 1 piece

SI 4000 Water-cooled Light & Weather Fastness Tester — Configuration parameter

Optional Accessories



400013

European standard color
grey card 1 piece



400014

One suit of blue wool of
American standard



400015

One suit of blue wool of
European standard



400016

air compressor

Technical Parameters

Operation mode: automatic	The full diameter of sample rack : 648 ± 6 mm
Service life(1 solar standard):1200H	The minor diameter of sample rack : 511 ± 6 mm
filter:internal and external filters can be replaceable	The oblique angle of sample rack : 28 ± 2 angle
Irradiance control:340/420 or300-400nm select single point automatic control, optional second point monitoring	the rotate speed of sample rack : 1RPM/adjustable
Box temperature:25-100 °C	pressure:38-345kPa (20-50psi)
Relative humidity control:automatic	Humidification:deionized water0.12l/min
Humidity range :lightcycle:10-75%, dark cycle10-100%	Sample spray:deionized water0.07l/min
Temperature control:automatic	Sample rack spray:deionized water 0.07l/min
blackboard and black label temperature: BPT 40-110 °C / BST40-120 °C	Light source:6500W water-cooled xenon arc lamp
At the same control BPT or BST and the	HVAC-MJ/h (BTU/h)(max):
box temperature:standardBPT/BST	26.06MJ/h (24703BTU/h, 275CFM)
specimen frame type:three layer	air flow:0.11m ³ /min
	Power:380V/220V 50Hz
	weight:550kg
	Dimension:1500mmX1400mmX2200mm



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