

CINSUN

Stable Reliable Consistent



Air-cooled light fastness tester
SI220



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Air-cooled light fastness tester — test of material color fastness to sunlight

The tester adopts argon arc lamp to simulate the control of optimal natural climate and sunlight and other experimental conditions to test the color and performance changes of textile dyes. It can also test the aging resistance of materials, can accurately test product life on the basis of ensuring good repeatability and reproducibility.

SI 220 Air-cooled light fastness tester

1. The tester simulates natural climate and artificial daylight with the xenon lamp by changing the temperature, humidity and spray, and is used for textile and dye color and performance change test. It can reliably simulate full-spectrum daylight and test the aging resistance of materials. The SI220 series is an air-cooled solar testing machine with light energy loop control, irradiation energy monitoring, humidity loop control, blackboard temperature loop control, multi-point energy monitoring, reliable ion-free water system, and combinations of different optical filters.
2. Through the test environment provided by the 2200w xenon lamp and ultrasonic humidification device, the tester can perform simulation test under different solar spectra and various climatic conditions, so as to achieve the stability of the test process and the high repeatability of the test results in a short time.



Standards compliant

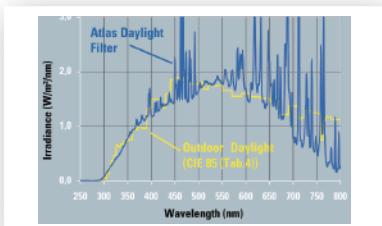
AATCC TM16-2004、AATCC TM169、ISO 105-B04、
M&S C9、M&S C9A、GB/T 8427

SI 220 Air-cooled light fastness tester —Several Major Features



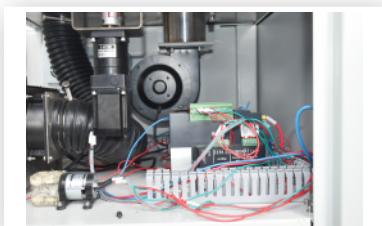
Smart touch screen control panel

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



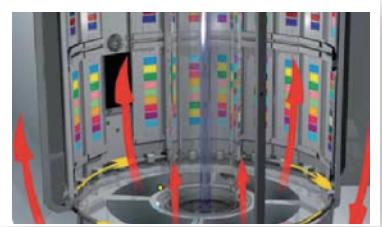
Powerful software features

The enhanced control system can handle complex custom programs and simple pre-programmed tests. The simple icons on the operation page are clear and easy to understand; the irradiance, temperature and humidity can be programmed to change step by step to meet various test requirements of users.



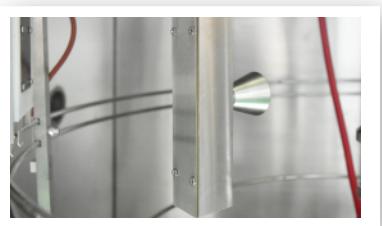
Multi-directional protection design

The instrument is equipped with irradiance monitoring, lamp power monitoring, water quality monitoring, temperature monitoring, water level limit, water flow monitoring, dry burning protection, leakage protection, etc. to ensure the safety of equipment and personnel.



large test area

Imported xenon lamp, new Air-cooled xenon lamp cooling system, good cooling effect, low cooling water consumption, large experimental box, can test up to 38 samples at a time, the sample rack can be rotated, improve the exposure consistency of all samples.



Irradiance closed-loop monitoring and automatic adjustment

The instrument can meet a variety of band light source tests, can be automatically calibrated periodically by the irradiance calibration device. The irradiance calibration device is certified by an authoritative metrology agency.



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SI 220 Air-cooled light fastness tester — Field Application



Air-cooled light fastness tester is widely used in plastics, paint coatings, inks, packaging, automotive materials, actinic materials, pigment dyes and textiles, etc.



It is applicable to the performance verification of new products, quality control of the production department, and the 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 220 Air-cooled light fastness tester — Configuration parameter

Standard configuration



22001

Filter



22002

Irradiance 420nm



22003

Blackboard temperature monitoring



22004

Black label series thermometer monitoring



22005

Test spare parts package



22006

Sample holder / set



22010

ultrapure water machinepure



22011

filtration system for 320nm UV
rear window glass test



22012

American standard color
gray card 1 piece

SI 220 Air-cooled light fastness tester — Configuration parameter

Optional Accessories



22013

European standard color
gray card 1 piece



22014

American standard
blue wool 1 set



22015

European standard
blue wool 1 set



22016

air compressor

Technical Parameters

Operating mode: automatic	Type of sample holder: two layers
Exposure area: 2310cm ²	Rotation speed of sample holder: 1RPM / adjustable
Optical filter: Replaceable optical filter	Test position: 38
Irradiance control: 420 or 300-400nm select single point automatic control, optional second point monitoring	Sample size: 13.5cm × 4.5cm
Box temperature: 25-100 °C	Humidity range (light cycle): 20-85%
Relative humidity control: automatic	Irradiation intensity range (300-400nm): 30-50W/m ²
Humidity range: bright period: 10-75%, dark period 10-100%	Humidification: deionized water 0.12l/min
Temperature control: automatic	Sample spray: deionized water 0.7l / min / optional
Blackboard or black label temperature: BPT 40-95 °C / BST 40-100 °C	Sample holder spray: deionized water 0.7l/min
Simultaneously control BPT or BST and tank temperature: standard BPT/BST	Light source: 2200W air-cooled xenon lamp
BPT/BST dual control: optional	Water tank capacity: 60L
	Air flow: 0.11m ³ /min
	Power supply: 380V/220V 50Hz
	Weight: 350kg
	Appearance size: 800mm×800mm×1900mm



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