

SKZ161A Solar radiation simulation Tester--(Wind cooling)

-- Color Fastness to Sunlight and Weather Tester



Used for testing the color fastness-to-light, color fastness-to-weather of various colored textiles in color fastness experiments and also for the testing of the color fastness-to-light, light aging of paint, pigment, coating, rubber, plastic, wood floor, paper and other materials.

Relevant Standards

GB/T8427 (national standards technical committees)

GB/T14576, GB/T15102-2006,

GB/T15104-2006

GB/T8430, AATCC TM16, ISO105-B04,

ISO105-B02



Instrument characteristics

1. Digital setting of light intensity , real-time monitoring, automatic adjustment, to meet the different standards for testing the stability of light source
2. The sample is tested with black plate thermometer(BPT),black plate standard thermometer(BST),irradiance detector at the same position(in equidistance) to really indicate measuring state of the sample, the tested data is transmitted synchronously by using technology of radio frequency and indicated on the color screen in the forms of digit, chart, curve, etc. after CPU process, without shutdown for observation.

3. Test and radio transmission are powered by using light conversion technology, no additional power supply is required.
4. 10.4 inch color touching screen display control and various test monitoring modules(animation, digit, chart) make operation easy, visual and clear
5. Individual timing of each sample clamp may enable different sample test in a same tester and facilitate test monitor and reduce operation cost
6. Rated 2500W long-arc xenon lamp technology adopted to real simulate sunlight spectrum
7. With industrial temperature control (refrigeration) system for smoothly and fast adjusting temperature in test chamber
8. Ultrasonic humidification and professional dehumidification system guarantee the accuracy and stability of testing humidity
9. Natural circulation system and air filter system inside reduces the environmental requirements greatly
10. One test can run for 1000 hour continuously with quality guarantee

Professional equipment, multi-measurement calibration, test data, scientific standards:



Temperature and humidity control:

1. With industrial temperature control (refrigeration) system for smoothly and fast adjusting temperature in test chamber
2. Ultrasonic humidification and professional dehumidification system guarantee the accuracy and stability of testing humidity
3. High-precision temperature and humidity sensors, temperature resolution of 0.1 °C; humidity resolution of 0.1%.



Control interface:

1. Select the test standard

Instrument equipped with common standards, with multiple options and an AATCC test from the configuration options, users can directly use, but also need to edit the test according to test conditions.



2. Test parameter

Users can also edit the test according to test conditions: temperature, including the standard blackboard, blackboard temperature, turning, alternating light and dark, rain, and experimental selection and set the time, cabin temperature and humidity, irradiance and other parameters set.



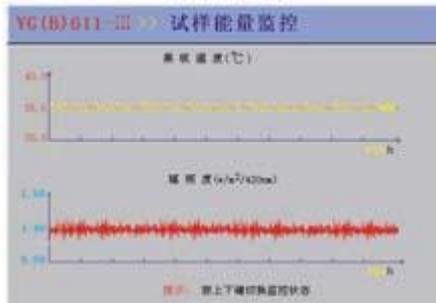
3. Experimental control Digital

During the test laboratory personnel monitor the status thus transferred, at a glance the observed value and the actual test setting values, and understand the work of the various components of the state apparatus.



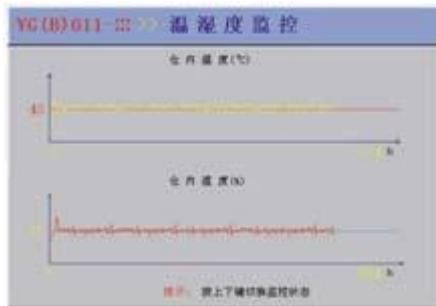
4.Experimental Monitoring -curve1

In this monitoring state, the instrument automatically records the blackboard according to the temperature($^{\circ}\text{C}$) and irradiance ($\text{w}/\text{m}^2/420\text{nm}$) monitor the whole value of the curve drawn, even if the laboratory personnel for a long time to leave, but also ready access to testing (light) the real process.



5.Experiments monitoring-Curve 2

In this monitoring state, the instrument automatically recorded according to the experimental compartment ($^{\circ}\text{C}$) and humidity (%) value to draw full control curve, even if the laboratory personnel for a long time to leave, but also ready access to testing(experimental position) of the real



process.

6.Experimental Monitoring -Legend

Monitor the state apparatus in this way the image of an animated representation of the rotation of the sample and the sample holder of the flip situation, but also time for each sample holder, respectively, in the case of non-stop test may be time for the sample holder



clear.

Technical parameters

1. Working pattern: Simulating and strengthen the effects of environmental factors on specimens, offering light, temperature, humidity, rain and other quantitative indicators
2. Light source: 2500W air-freezing xenon-arc light
3. Test chamber temperature control: 25~50°C; Distinguishability: 0.1°C
4. Test chamber humidity control: 10~95%RH, Distinguishability: 0.1%
5. Testing time control: 1000h
6. Irradiance: 1.00~1.50W/m²/420nm; Accuracy: ±0.03W/m²/420nm; Digital setting automatic compensation
7. Sample clamps: GB: 135×45mm, 10 pieces. AATCC: 100×75mm, 5 pieces both sides can clamp samples
8. Slewing speed of sample frame: revolution 5r/min, rotation 180°/rpm
9. Sample clamps time individually: ≤1000h
10. Black standard thermometer : 40~80°C, Distinguishability: 0.1°C
11. Power source: AC220V±10%, 50Hz, 5.5kW
12. External dimensions: 1000×550×1570mm
13. Weight: 220kg