

SKZ161D/E/F Solar radiation simulation Tester -(Water cooling)

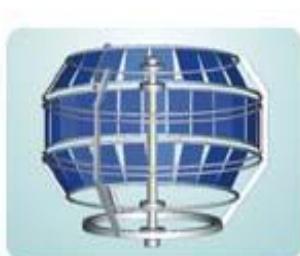
---- Water-cooling Color Fastness To Sunlight Tester



Used for testing the performance of discoloring, fading, aging, transmissibility, peeling, hardening, softening, of the products and materials in the industries of rubber, plastic, paint, petrochemicals, auto, fabric, for solar radiation simulation test(illumination, raining, temperature, humidity,)

Relevant Standards

ISO4892, ISO03917, ISO11341, ISO105, AATCC M16, AATCC169, ASTM G26, ASEJ1885KJ, ASEJ1960KJ, GJB 150.7.



structure sample shelf



Water-xenon arc lamps



hitech-kflow

Operation

interface pandect



Spectral analysis and energy

demarcate



Instrument features:

1. an advanced computer controller and multi-channel temperature and humidity control system.
2. easily create complex test procedures to facilitate the choice and control light, temperature, humidity and spray conditions.
3. menu-driven display guides the user through the button to select the test

parameters.

4. button to select the database standard or user-defined test procedures.
5. using a short arc, high light intensity, water-cooled xenon arc lamp and professional double-filter system simulate the real source of sunshine.
6. European imports of fixed-band spectrum traceable calibration systems, digital set light intensity, real-time monitoring, automatically adjusted to meet different standards for light stability testing requirements.
7. superconducting fiber imported, exported by the whole band monitoring light source, light detector at warehouse outside monitoring, no drift, no decay, high precision, life permanently.
8. hybrid water cooling system, greatly reducing water consumption and power consumption.
9. large experimental warehouse design, to maximize the exposure area.
10. the board thermometer (BPT), the standard blackboard Thermometer (BST) and sample the same station (isometric) testing, a true reflection of the sample under test conditions, the measured CPU processing digital data, charts, graphs, etc. displayed on the color screen, do not stop observing.
11. ultrasonic atomizer and PTC double humidification mode, professional dehumidification system to ensure accurate and stable humidity test.
12. equipped with self-circulation system and air filtration system, significantly reducing the environmental requirements.
13. 10.4-inch touch screen display control, monitoring a variety of test modes (animation, digital, graphics), easy manipulation, clear and intuitive.
14. sample holder to achieve all the time, respectively, can be machine experiments with different samples, to facilitate monitoring of the test.
15. front and back of the spray model.
16. the instrument is equipped with parallel communication interface, can provide Chinese A4 printing (optional).
17. a test run of 1000 hours of continuous quality assurance.

Technical parameters

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| Model | SKZ161D |
| Test compartment temperature control | 30~70°C, Resolution: 0.1 °C |
| Storage humidity control test | Ming period :10-75% RH, humidity fluctuations ± 3% RH; dark cycle :10-95% RH, humidity fluctuate ± 5% RH; |
| Time control experiments | 0min~999:59h, Accuracy ± 1min |
| Irradiance control | 1.00-1.30W/m ² /420nm Accuracy: ± 0.02 W/m ² /420nm;digital set, automatic compensation. |
| Control and monitoring wavelength | Optional 340nm, 420nm ,300-400nm ,300-800nm |
| Xenon arc lamp rated power | 4.5KW |
| Sample holder rotation speed | 1rpm can be set |
| Diameter distribution of sample clip | φ500mm |
| Maximum exposure area | 3500cm ² |
| Sample holder can be mounted with the number of dimensions | 145 × 75mm model 25; 145 × 45mm model 35 |
| Timing of each sample holder, respective | ≤10000h |
| Photoperiod | ≤10000h |
| Spray cycle | ≤10000h |
| Blackboard temperature range | (BPT) 30-90°C±2°C; (BST) 35-95°C±2°C |
| Display control | 10.4-inch touch screen |
| Data Output | Digital color display (A4 print in English optional) |
| Sample holder type | Single |
| External circulating water requirements | Water pressure :140-1345kPa Flow: 1.0L/min |
| Requirements within the recycled water | High water flow: 0.5L/min |
| Power supply | AC380V±5% 50Hz 10KW |
| Dimensions | 1250×830×1800mm |
| Weight | 350kg |

Technical parameters

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| Model | SKZ161E |
| Test chamber temperature control | 30~70°C, Distinguishability:0.1 °C |
| Test chamber humidity control | light cycle : 10-75%RH, humidity fluctuation ±3%RH; shade cycle : 10-95%RH, humidity fluctuation ±5%RH; |
| Testing time control | 0min~999:59h, Accuracy:±1min |
| Irradiance | 0.8~2.5W/m ² /420nm Accuracy:±0.03W/m ² /420nm, Digital setting automatic compensation |
| Control and monitoring wavelength | Optional 340nm, 420nm, 300-400nm, 300-800nm wave band |
| Rated power of xenon lamp | 4.5KW |
| Slewing speed of sample frame | 1-10rpm settable |
| Distribution diameter of sample clamp | φ550mm |
| Maximum exposure area | 3500cm ² |
| size and number of sample clamps | 145×75mm template 35 block;145×45mm template 48 pieces |
| Each sample folder times respectively | ≤10000h |
| Illumination cycle | ≤10000h |
| Spraying cycle | ≤10000h |
| Blackboard temperature range | (BPT) 30-90°C±2°C; (BST) 35-95°C±2°C |
| manipulation showing | 10.4 inch touch screen |
| Data output | Digital color display (A4 print in English optional) |
| Sample holder type | Double |
| External circulating water requirements | Water pressure :140-1345kPa Flow: 1.3L/min |
| Requirements within the recycled water | High water flow: 0.6L/min |
| power source | AC380V±5% 50Hz 10kW |
| external dimensions | 1250×1000×1800mm |
| Weight | 400kg |

Technical parameters

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| Model | SKZ161F |
| Test compartment temperature control | 20~93°C, Resolution: 0.1 °C |
| Storage humidity control test | Light cycle:10-75% RH, humidity fluctuations ± 3% RH; dark cycle :10-95% RH, humidity fluctuate ± 5% RH; |
| Time control experiments | 0min~999:59h, Accuracy ± 1min |
| Irradiance control | 0.8 ~ 2.5W/m ² /420nm Accuracy: ± 0.03W/m ² /420nm;digital set, automatic compensation |
| Control and monitoring wavelength | Optional 340nm, 420nm ,300-400nm ,300-800nm |
| Xenon arc lamp rated power | 6.5KW |
| Sample holder rotation speed | 1-10rpm can be set |
| Diameter distribution of sample clip | φ650mm |
| Maximum exposure area | 6900cm ² |
| Sample holder can be mounted with the number of dimensions | 145 × 75mm model 68; 145 × 45mm model 90 |
| Timing of each sample holder, respective | ≤10000h |
| Photoperiod | ≤10000h |
| Spray cycle | ≤10000h |
| Blackboard temperature range | (BPT) 30-100°C±2°C; (BST) 35-105°C±2°C |
| Display control | 10.4-inch touch screen |
| Data Output | Digital color display (A4 print in English optional) |
| Sample holder type | Three |
| External circulating water requirements | Water pressure :140-1345kPa Flow: 1.5L/min |
| Requirements within the recycled water | High water flow: 0.8L/min |
| Power supply | AC380V±5% 50Hz 12kW |
| Dimensions | 1350×1050×1900mm |
| Weight | 460kg |