Biuged

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Climate Chamber Type UV Light Accelerated Aging Tester

Conventional UV Light Accelerated Aging Test Chambers simulate the effects of moisture on materials via condensation or spray, while relative humidity inside the chamber cannot be controlled during the irradiation phase. To address this limitation, the latest ISO 4892:2024 introduces a climate chamber type UV light accelerated aging tester, together with Test Cycles 3, 4 and 5 featuring humidity control.

Independently developed by Biuged, the climate chamber type UV light accelerated aging tester fully meets the equipment requirements of this standard. It enables synchronous closed-loop regulation of chamber temperature and humidity during UV irradiation. Using chamber air temperature as the control reference, the tester reproduces the real outdoor service environment where materials are exposed to light under constant humidity conditions.

Features

◆ Original imported UVA, UVB or UVC lamps to ensure comparability of test data;
◆ Fully automatic irradiation energy control (closed-loop control system for accurate and stable energy values), reaching the top international level in the industry;
◆ Equipped with spray and steam humidification functions. Typical humidity conditions can be configured in accordance with ISO 4892-3:2024, e.g. 50℃ & 20 ± 10% RH; 70℃ & 5 ± 3% RH;
◆ Supports 85℃ / 85% RH temperature-humidity condition setup;
◆ Compliant with multiple domestic and international test standards; supports flexible configuration of various test programs;
◆ Real-time data acquisition and storage;
◆ Touchscreen menu operation and control with user-friendly interface for viewing any test parameter at any time;
◆ High-precision temperature and humidity sensors; automatic temperature control;
◆ Alarm protection function: the system automatically triggers alarms in case of low water level, over-temperature, electric leakage and heating overload.

Main Technical Parameters:
★ Light Source: UVA (340 nm wavelength), UVB (313 nm wavelength) or UVC (peak wavelength 254 nm);
★ Quantity of Lamps: 8 pcs × 40 W (nominal service life: 6000 hours);
★ Adjustable Irradiance Range: 0.3 W/m^2 ~ 1.15 W/m^2;
★ Inner/outer Chamber Material: 304 stainless steel sheet / powder–coated aluminum plate, rust–free;
★ Exposure Area: 7475 cm^2 / 1158 in^2;
★ Standard Specimens: 23 standard specimen racks (can hold 42 pieces of 150 mm × 70 mm specimens in one batch);
★ Overall Dimension (L × W × H): 1200 mm × 670 mm × 1930 mm;
★ Net Weight: 161 kg;
★ Maximum Rated power of the whole unit: 5 kW;
★ Power Supply: 220 V, 50 Hz (60 Hz available upon customization), maximum current 25 A.
★ **Ordering Information:**
BGD 857---Climate Chamber Type UV Light Accelerated Aging Tester



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