



UV Accelerated Weathering Tester GT-C29



Application:

GT-C29 UV Accelerate Weathering Tester use UVA-340 fluorescent UV lamp as light sources which can simulate the harm of sunshine, rain and dew. The operating principle of this machine is combined the ultraviolet rays, rain, high-temperature, condensation and darkness as a circulation and repeat the circulation automatically. We can get the weathering test result of specimen by these circulations. The UV Accelerate Weathering Tester can reproduce the months and years harm in several days or weeks. The harm

includes color fading, discoloring, chalkiness, cracking, muddy, bubble, embrittlement, intensity, recession, oxidation etc.

Dimensions

External Dimension:
1300*550*1480 mm(L*W*H)
Package Dimension:
1540*580*1500 mm(L*W*H)
Gross Weight:
180KG
Net Weight:
150KG



Feature

1. The case is made from numerical control equipment, which is with advanced technology, smooth lines, beautifully designed.
2. Material of the cabinet is thickness 1.2mm, SUS304# advanced stainless steel.
3. Air channel in the cabinet applies single-cycle system and a import axial flow fan improves the air flow ability of light, heating ability, and also significantly improves the temperature uniformity in the test chamber.
4. Lamp: the dedicated ultraviolet, UVA-340 or UVB-313 (option), 8 lamps, 4 on each side with a total of 2 sides, 40W/1
5. Lamp lifetime: above 1600h
6. Water source and consumption: about 8 L tap water or distilled water every day.
7. Type of heating: water channel heating with quick warming and uniformity temperature distribution.
8. The specimen holder is made of stainless steel and aluminium alloy.
9. Bottom of unit is fixed by high quality PU running wheel.
10. Drainage system drains water with U type deposition device.
11. The test sample surface is in parallel with UV light plane.
12. Installation of automatic sprinkler inside the spray system, water pressure can be adjusted.
13. The power uses the residual current circuit-breaker for control loop, overload and short circuit alarm, over temperature alarm, water shortage protection.

Key Specifications

Model	GT-C29
Control Mode	PLC+Touch Screen Control
Temperature Range	RT+10°C~70°C
Humidity Range	≥75%RH
Temperature Uniformity	±3°C
Temperature Fluctuation	±0.5°C
Test Chamber Space	500 ×1140×400mm
Center Distance Inside Lamp	65~70mm
Center Distance Between Specimen and Lamp	55mm
Irradiance	0.3~1.3W/m ² , (Set irradiance on the touch screen)
Irradiance Control	Imported irradiance intelligent control, real-time feedback of irradiance value was real-time detected by irradiance sensor, compared with the set irradiance on the touch screen, and then the lamp ballast is controlled by the output voltage of the PLC, finally control the brightness of the lamp. in order to adjust the irradiance PID setting, to automatically compensate the set value.
Irradiance Calibration Hole	Reserve one
Curve	Temperature and irradiance curve display
Test cycle of Illumination, Condensation, and Water Spray Test	Can be adjusted
Lamp	L=1200mm /40W, 8 (UVA/UVB, lifetime above1600h)
Black Panel Thermometer Testing Range	30~80°C
Black Panel Thermometer Monitoring	Standard Pt-100 black panel thermometer sensor
Specimen Dimension	75×150mm
Specimen Holder Number	21
Depth of Water Channel	25mm

Ultraviolet Wavelength	UVA	315-400nm
	UVB	280-315nm
Test Time	0~999H (can be adjusted)	
Spray	Automatic Spray Function	
Safety Protection	Protective door lock, over-temperature, low water level alarm, leakage, short circuit, Over current protection	
Power Supply	AC 220V 50/60HZ	
Dimension(L×W×H)	1400×660×1550mm	
Weight	200 kg	
Standards	GB/T 14522-93, ASTM G 154, ISO 4892-1, ISO 11507, ASTM D 4329	

Accessories

Standard accessories	1pc	Specimen Fixture
	1pc	UVA-340
Optional accessories	Optional	UVB-313
	Optional	luminometer

Application Industry