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Xenon Lamp Aging Test Chamber

Product No: XD-80LS

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Xenon Lamp Aging Test Chamber Introduction

Description Download

Xenon lamp aging test chamber adopts xenon arc lamp which can imitate the full spectrum of sunlight to reappear destructive spectral wave that exists in different environment. It can provide the corresponding simulation environment and accelerated test for scientific research, product development and quality control. Xenon lamp aging test chamber can be used for the choice of new materials, improving of existing materials, or the test of evaluating the durability of material composition when it is changed. It can imitate different environmental conditions to observe changes of the materials which were exposed in the sun. Xenon lamp aging test chamber is designed according to ISO 4892-1, ISO 4892-3, GB/T16585-1996, GB14522-93, GB/T16422.3-97, D2565 ASTM D2565 and other relevant standards.

Technical parameters of climate test chamber for water-cooled Xenon lamp:

- Model: XD-80LS Working size: 800*800*800mm
- Temperature range: RT+10℃～80℃(Adjustable)
- Temperature deviation: ±2℃; Temperature fluctuation: ±0.5℃
- Humidity range: 65%-98%RH; Humidity fluctuation: ±3%
- Wind speed: ≤1.5m/s Sample rack speed: 5-12r/min(Adjustable)
- Rainfall time: 0～9999min(Adjustable)
- Xenon lamp source: Water-cooled lamp
- Quantity of Xenon lamps: 1 PCS
- Xenon Lamp Power: 6000W
- Distance between sample holder and lamp: 200~375 mm
- Illumination time: 1～9999h、m、s continuously adjustable
- Temperature control instrument adopts high precision digital microcomputer integrated controller; Accuracy: 1℃(Display range)
- Resolution: ±0.1℃
- Temperature sensor: PT100 platinum resistance thermometer
- Control Way: Heat balance temperature and humidity control way
- Temperature and humidity control adopts P.I.D+S.S.R system and channel coordinated control
- Equipment feature: with light, rain, temperature, humidity, wind, etc. climate
- Xenon lamp radiation intensity: 550w/m²; Wavelength: 290~800nm

Technical parameters of climate test chamber for air-cooled xenon lamp:

- Model: XD-150LF; Working size: 600*760*500mm(L*W*H)
- Temperature Range: RT+10～80℃(Adjustable); Blackboard temperature: 63℃ ±3℃
- Temperature fluctuation: ±0.5℃; Temperature deviation: ±2℃
- Humidity range: 50～95% R•H(Adjustable); Humidity deviation: ≤±2%
- Glass window filter: 1 PC
- Time of raining: 0～9999min; Cycle of raining: 1 ~ 240min, the interval can be adjusted
- Spray time: (Water spray time/no water spray time): 18min/102min or 12min/48min
- Rain water pressure: 0.12～15Mpa; Spray nozzle aperture: Φ0.8mm
- Xenon lamp source: Air-cooled lamp; Quantity of Xenon lamps: 3 PCS
- Xenon lamp power: 1.8KW/PC
- Heating Power: 3KW; Humidification power: 1.5KW
- Distance between sample holder and lamp: 230～280mm
- Sample rack tray: 1 layer turntable
- Wavelength: 290～800nm
- Illumination time: 1～9999h、m、s continuously adjustable
- Irradiance: 550W per square (optional for Radiometer)
- Total Power: 9.5KW