

Xenon Test Chamber

XD-21-860



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Standard : GB/T 1865, GB/T 16422.1, GB/T 16422.2 GB/T 16259, GB/T 8427, GB/T 12831, GB/T 16991, GB/T 14576, GB/T 15104, GB/T 2423.24, ISO 11341, ISO 4892 ASTM G151, ASTM G155

XD-21-860 Xenon Test Chamber can meet with all standards requirements from different fields, it can hold 22 pieces samples, not only has spray function, but also can control the relative humidity of working room.

Product Details

I . Introduction:

XD-21-860 is a powerful, highly cost-effective, easy to use and convenient to maintain xenon test chamber. It uses a air-cooled xenon lamp and relevant daylight filter (both are imported from America),to simulate more real and much better the full spectrum sun light of outdoor, ensure the test results obtained from laboratory have a perfect correlation

with outdoor application. Furthermore, the samples holder is designed with a special rotating drum to ensure each sample can obtain the same and uniform irradiance during the whole test.

XD-21-860 Xenon Test Chamber can meet with all standards requirements from different fields, it can hold 22 pieces samples, not only has spray function, but also can control the relative humidity of working room. Operator can set all required test parameters Irradiance, test time, BPT, BST etc through the touch screen, and can check its running status at any time. All running parameters can be exported to computer directly through the USB interface.



II . Standards compliant :

GB/T 1865	GB/T 16422.1	GB/T 16422.2
GB/T 16259	GB/T 8427	GB/T 12831
GB/T 16991	GB/T 14576	GB/T 15104
GB/T 2423.24	ISO 11341	ISO 4892
ASTM G151	ASTM G155	

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III. Characters :

- Xenon lamp and relevant filter imported from America can ensure the test results have a good repeatability and comparability.
- Special rotating-drum design for samples holder ensure each sample can obtain the same and uniform irradiance during the whole test.
- Irradiance energy can be accurately controlled. The "Sun Eye" control system can automatically compensate the change of light intensity caused by ageing or other factors.
- Can choose narrow band (at 340nm or at 420nm) or broad band (from 300nm 400nm) to control irradiance.
- Affordable air-cooled xenon lamp, the lifetime can reach 1,500 hours.
- Can choose three different filters (Daylight, Window glass, Extended UV) to meet different test requirements.
- The test procedures can be programmed freely; can set 9 programs and save 6 predetermined programs in one time. Every program includes up to 10 segments for setting parameters.
- Can set and control precisely and automatically the relative humidity of working room.
- Can set the cumulative energy (total irradiance energy) obtained by sample to finish a test procedure.
- With spray function, can set spray time and spray interval time.
- Users can easily calibrate and adjust the irradiance or the blackboard temperature by themselves.
- With High precision Pt100 Temperature sensor. BPT (black panel temperature) , BST (black standard temperature) and working room temperature can be set and controlled precisely and automatically during the whole process.
- Alarm and protection function : Over temperature (BPT,BST, working room, cooling water) , over heating load, big error for irradiance, over standard of pure water conductivity, auto shut-down protection when opening door.

- Touch screen and user-friendly operation interface allow operator to set the test parameters and monitor all the test process easily.
- Real-time data can be collected and recorded. The incidental USB connector allow users to download the test data (EXCEL format) directly, achieving unattended operation.

IV. Main Technical Parameters :

Xenon Lamp	One 1.8KW xenon lamps (imported from America)
Filter	Daylight filter (Also can choose extended UV filter or window glass filter)
Adjustable Irradiance Range	<p>0.3 ~ 0.75 W/m² (@ 340nm)</p> <p>0.50 ~ 1.35W/m² (@ 420nm)</p> <p>30 ~ 90 W/m² (@ 300 ~ 400nm)</p>
Adjustable Black Board Temperature Range	RT+30°C ~ 90°C
studio Temperature settable range	<p>(RT+8°C) ~ 62°C</p> <p>(Slightly different depending on the external environment and the set irradiance)</p>
Adjustable relative humidity of working room	<p>20% ~ 75% (Light)</p> <p>50% ~ 95%(Dark)</p>
Exposure Area	2200cm ²

Standard template	Can put 22 pcs samples 150×70mm size (11 standard sample racks)
Overall Size	860×800×1740 (L×W×H)
Net Weight	200 Kg
Total Machine Power	4 KW (Instant power can reach 6KW)
Power Supply	380V 50/60HZ; 32A

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