



科来梅特  
CLIMATE TESTER

XENON WEATHERING TEST CHAMBER

Address: NO.13 Xianfeng Road, Nancheng Dis., Dongguan City, Guangdong province, China

Lisa Zhong      Email: [support@climatetester.com](mailto:support@climatetester.com)





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## Product Introduction

Xenon Weathering Test Chamber simulates accelerated aging condition to reproduce the damage caused by full-spectrum sunlight and rain. In few days or weeks, it can reproduce the damage that occurs over months and years outdoor.

It is applicable for plastic, paint, coating, automotive interior components, textile, leather, electrical and electronic products.



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## XENON WEATHERIN WEATHERING TEST CHAMBER



### Temperature sensor

CLIMATE: Japan SANJAC temperature  
measuring range:  $-100 \sim +200^{\circ}\text{C}$



### Controller

CLIMATE: Siemens programmable  
touch screen controller



### Xenon lamp

CLIMATE: 3pcs air-cooled full  
spectrum xenon lamp (1.8KW \* 3pcs),  
1200 hours life time



### Irradiance meter

CLIMATE: German chip design: Intelligent  
irradiation induced circuit system. Full  
spectrum of 290-290nm, 575-1120 W/m<sup>2</sup>,  
UV 340nm band 0.5 1.2 W/m<sup>2</sup>



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## XENON WEATHERIN WEATHERING TEST CHAMBER (Water Cooled)



PLC controller



Sample rack



Irradiance meter



Black panel temperature sensor



Heater



Tecumseh compressor

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## XENON WEATHERIN WEATHERING TEST CHAMBER (Air Cooled)



PLC controller



Sample rack



Irradiance meter



Black panel temperature sensor



Heater



Tecumseh compressor

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## Technical Parameters

Type	Xenon Weathering Test Chamber (Air Cooled)			Xenon Weathering Test Chamber (Water Cooled)	
Model	CXA-225	CXA-512	CXA-1000	CXW-512	CXW-1000
Internal Dimension (W*D*H) mm	750*500*600	800*800*800	1000*1000*1000	800*800*800	1000*1000*1000
External Dimension (W*D*H) mm	1300*1000*1700	1450*1350*2150	1650*1550*2350	1450*1350*2150	1650*1550*2350
Light source	Air cooled long arc xenon lamp			Water Cooled Xenon Lamp	
Xenon lamp power	1.8KW * 3pcs = 5.4KW			6.5KW*1pc=6.5KW	
Sample holder	SUS 304Stainless steel, 1pc			Turntable Sample Rack, 1-5R/min(Adjustable); Max. Sample dimension: 200*90mm Thickness<20mm	
Internal material	Stainless steel 304 , anti-rust, easy to clean				
External material	Cold-rolled steel with spray/ Stainless steel				
Chamber humidity range	45%~ 95% RH (Light cycle) 30%~ 95% RH (Dark cycle)				
Humidity uniformity	± 5 %RH				
Chamber temperature	25℃~90℃, adjustable				
Black panel temperature	40℃~95℃, adjustable				
Temperature uniformity	≤ ±3℃				
Filter	Daylight filter				
Irradiance strength	550~1120W/m2@290~800nm, adjustable				
Control system	LCD programmable controller, auto display irradiance, capacity: 100 groups program, 99 cycles.				
Illumination time	1~999 hours, adjustable				
Water spray system	Water spray time 999 minutes settable Interval spray time, 1~240 minutes settable				
Water pressure	0.12 ~ 0.15kpa				
Water spray nozzle	Diameter: 0.8mm				
Distance from sample holder to lamp	250~300mm				
Power Supply	Three phase , AC380V 50/60HZ				

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## Design standard

The Xenon Weathering Test Chamber uses a xenon arc lamp that can simulate full sunlight spectrum to reproduce destructive light waves that exist in different environments. This enables the device to provide the corresponding environment simulations and acceleration tests for scientific research, product development and quality control.

## Design standard

ASTM G154, ASTM G155, IEC 60068-2-5, SAE J2412...



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We need test

When your products are exposed to intense sunlight during the day  
and drenched by dew at night, how long can you use them?

Is it one day, one week, one month, one year, or ten years ?

*It seems to be a secret before you test.*

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***TO BE THE WORLDWIDE LEADER OF  
ENVIRONMENTAL TEST CHAMBER FACTORY***

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