



Low Temperature Xenon Arc Weathering Test Chamber



XL-S-750

Temperature Range

-40~+100°C±2°C

Humidity Range

30%~98% RH

Irradiance

35~150W@300~400nm

BPT

35°C~85°C±2°C



Paintings & coatings



Plastic



Textile

【Technical Parameter】

Model	XL-S-750C	
Internal Dimension (mm)	950*950*850 mm	
Overall Dimension (mm)	1300*1420*1800 mm	
Specimen Holder Size(mm)	95*200	
Specimen Capacity	42pcs	
Sample holder	Adjustable speed, 1r/min	
Chamber Type	Rotating Holder	
Irradiation Source	1 piece of 4500w water-cooled xenon arc lamp with inner quartz and outer borosilicate filter	
Parameter	Irradiance Range	150W/m ²
	Bandwidth Measurement	300~400nm
	Chamber Temperature Range	-40 ~ 100 °C ±2°C
	Black Panel Temperature	BPT 35 ~ 85 °C ±2°C
	Humidity Range	30% ~ 98% RH
	Humidity Deviation	± 5% RH
	Water Spray Cycle	1~9999H59M (Adjustable)
Constructure	Controller	Programmable color LCD touch screen controller
	Water supply system	Automatic water supply
		Water purification system
	Build-in Water Tank(mm)	270*300*900
	View Window Size(mm)	250*330
	Air Circulation	Centrifugal wind fan
	Radiometer	UV Radiometer, Tolerance: ±5%
	Heating Element	Nichrome heater
	Cooling System	Mechanical compression refrigeration system
	Refrigerating Unit	French TECUMSEH compressor
	Humidification System	External isolation, stainless steel surface evaporation humidifier
	Air Circulation	Centrifugal wind fan
Safety Device	Over-temperature Protection; Over-current Protection; Water Shortage Protection; Earth leakage Protection; Phase Sequence Protection	
Material	Exterior Material	Steel plate with protective coating
	Interior Material	SUS304 stainless steel
	Thermal Insulation	Polyurethane foam and insulation cotton
	Observation Window	Interior lighting, double-layer thermo stability silicone rubber sealing
Power Supply	AC380V 50Hz	
Maximum Noise	65 dBA	
Test standard	DSHD 605 S2	
Environmental Conditional	5°C ~ +35 °C ≤85% RH	

DSHD 605 S2

Test samples	2 batches, each batch with 6pcs samples 1 batch with 5 days test cycles, 1 batch keep in atmosphere	
Test cycles	Day 1	light radiation in a humid atmosphere, (relative humidity $\geq 85\%$), at the temperature of $(25 \pm 2)^\circ\text{C}$ with sprinkling; (sprinkling of demineralized water lasts 3 min per period of 20 min)
	Day 2	The hot-cold or cold-hot transfers $(50 \pm 2)^\circ\text{C}$ and $(-25 \pm 2)^\circ\text{C}$ for three one-hour periods.
	Day 3, Day 4	light radiation in a dry atmosphere during which the temperature is kept at $(70 \pm 2)^\circ\text{C}$ and the relative humidity is less than 30 %
	Day 5	exposure 8 h with 667ppm of sulphur dioxide, kept at a temperature of $(40 \pm 3)^\circ\text{C}$ with saturating humidity, For the last 16 h

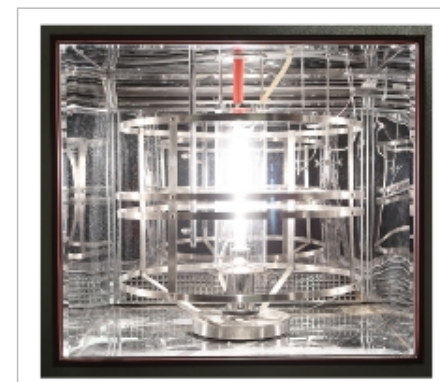
Structures

Xenon Arc Test Chamber



1. Workroom

- The internal material is 304 stainless steel, mirror surface
- Rust-proof to high and low temperature and moisture corrosion resistance.
- Nice ruggedness and long life.



2. Rotating Specimen Holder

- Xenon arc lamp located in center of testing room, vertically.
- With rotary sample holders, adjustable speed.
- With water spray nozzles around sample holders.
- Total can mount 42 pieces of specimen.



3. Irradiation Source

- Irradiation source with 1 piece of 4500 W lamp
- Water-cooled xenon lamp.
- Lamp with inner quartz and outer borosilicate filter
- Average Lamp Life is 1600 hours.
- Easy to change and clean



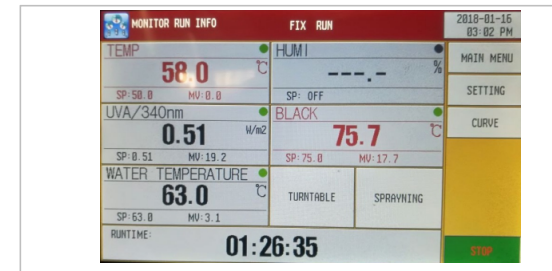
4.Viewing Window

- Double layer insulating glass 8cm thickness, made of tempered glass.
- The conductive film is located on the interior glass to prevent window frosting.
- Built-in LED light for the work room lighting.
- Door with big view window, can clearly observe samples.
- The light control button is located below the controller.



5.Controller

- PID programmable color touch screen controller.
- Can connect machine to PC, save data and curve to PC.
- Can edit 100 programs 20 segment.
- LIB also can preset program into the controller based on user testing requirements.
- The set system language is English for standard.



6.Water Re-circulation

- Water purifier: mainly purification from water source to water tank.
- The filter element is suggested to be replaced once a year.
- LIB provided filter element shipping with machine
- Water re-circulation system



7.Automatic Water Inlet

- Automatic control of the water intake of equipment, the customer can be directly connected to the laboratory faucet, so as to achieve automated testing;
- Automatic inlet diameter 1/2 inch;
- High and low water level alarm, water shortage lights and sound.
- Standard 2 meter drain pipe provided



8.Castor

- Install 4 castors for ease moving, with brakes function.
- Caster height adjustable.



9.Insulation

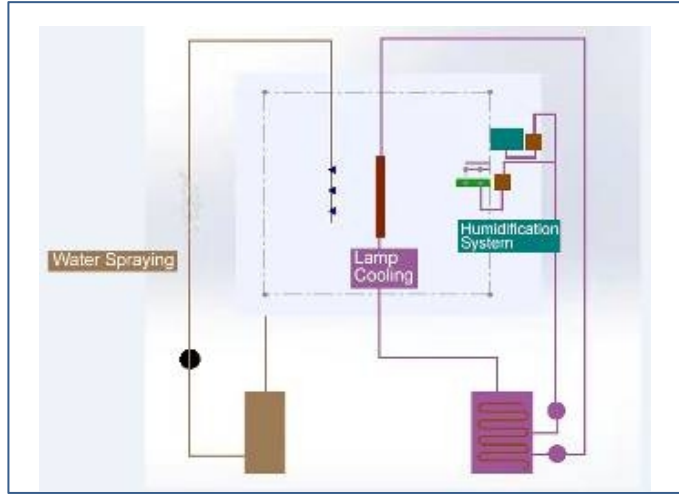
- 10cm thick polyurethane foam and insulation cotton;
- Better insulation performance, degradation resistance, environmental protection, noise reduction.



10.External Materials

- A3 steel plate with galvanized coating;
- Electrostatic treatment;
- High and low temperature corrosion resistance;
- High hardness, anti - impact
- Very high safety factor;
- Color can be customized.

Core Function



Two independent water way systems, one water tank supplies water to the lamp cooling and humidification system, and the other water tank supplies water to the water spray.

Water Way System



The water spray pipe is equipped with three nozzles, the diameter of the nozzle is 0.5mm, the settlement is 0.8 ~ 1.0mm / 80cm² / H, and the flow rate is 0.3L / min, which simulates the outdoor moisture damage to the material. Can be customized to front and rear spraying.

Water Spray System



After the liquid refrigerant absorbs the heat of the cooled object in the evaporator, it is vaporized into low-temperature and low-pressure steam, sucked by the compressor, compressed into high-pressure high-temperature steam, discharged into the condenser, and radiated to the cooling medium in the condenser, condensed into a high-pressure liquid, throttling through a throttle valve into a low-pressure low-temperature refrigerant, and again entering the evaporator to absorb heat and vaporize, to achieve the purpose of cycle refrigeration.

In this way, the refrigerant completes a refrigeration cycle through four basic processes of evaporation, compression, condensation, and throttling in the system.

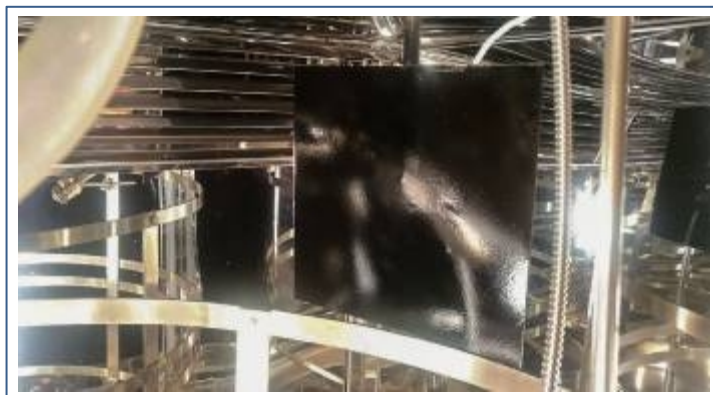
Cooling System



UV Irradiance Radiometer is available for xenon test chamber.

The radiometer is a photoelectric sensor with fast response, reliable performance and high accuracy.

Radiometer



The blackboard thermometer is composed of a stainless steel flat plate with a length of 150 mm, a width of 70 mm, and a thickness of 1 mm. The side of the board facing the light source should be coated with a black flat lacquer to absorb at least 90% of the total incidence. The temperature measurement of the blackboard is made by a platinum resistance sensor located in the center of the plate.

Black Panel Thermometer

Over Temperature Protection
Water Shortage Protection

Over Current Protection
Earth Leakage Protection
Phase Sequence Protection

Humidifier Dry Combustion Protection
Refrigerant High Pressure Protection

Protection System

Specimen Holder

- Special specimen holder can be customized

Radiometer

Demineralized Water Device

Reverse Osmosis Unit

Controller

- WiFi connection
- Mobile APP control
- Multi-language controller interface: Russian, French, Polish, Romanian, German

Install Condition

Environment Conditions
 Temperature: +5°C ~ +35°C
 Relative humidity: ≤85%;
 Pressure: 86 KPa—106 KPa

Space Conditions
 Sufficient space for ventilation

***Safety Instruction:**

1. Prohibited to test explosive, inflammable and high corrosive substance
2. Chemical exposure to the equipment is prohibited
3. Equipment must be safety on the ground to avoid electrostatic induction

Packaging



First, seal chamber with waterproof plastic film. Protect chamber from seawater corrosion. Second, buffer foam is placed in the four corners of the chamber. It is used for fixing equipment to prevent shaking and damaging chamber during transportation.



Plywood: standard wood export packaging. The wooden box is fixed by sheet metal to prevent damage during transportation.

Warranty Condition

Our company will repair the product, if the product, the material of the parts, the design and manufacturing of the products raised hardware problems caused by product itself rather than human error within three years warranty period since the date of dispatching by the customer.

Our company repairs the products, but will collect the basic costs of the spare parts after the warranty period, but service is free always.

Shipping



Material: Export standard wooden box

*Can be used for Sea, Air, Railway, Truck and multimodal transport.

Warranty & Service

- 3 Years Warranty, Lifelong Follow-up Services

Professional After-sales Team
 If you have any questions during operation, we will supply solution to you with 24 hours.

How to Service

1. At first, our test chambers are produced based on 20 years product lifetime.

Normally once test chambers have problems, we judge the problems, and send spare parts to our customers, and teach them how to change new parts on by email or video, all spare parts and shipping cost (by DHL, TNT, and FedEx) paid by LIB.

2. If the customer needs our engineer on-site service, they only need pay the ticket accommodation to our Engineers, service is for free.

3. If products still can't use after our engineers repair, we will produce a new test chamber (same as the old one) to our customers with no charge.

PROVIDING TEST SOLUTION, PROVIDING TEST EQUIPMENT

Xi'an LIB Environmental Simulation Industry is a lead provider of environmental test chamber in China, with its own brand (LIB) design, production, sales and service since 2009. We continually update technology and develop new products for customer's needs.

Our main products included temperature and climate test chambers, corrosion chambers, weathering testers, IP dust and rain chambers, ozone test chamber, noxious gas SO2 H2S chamber, walk-in chambers. We provide test chamber, we provide test solution. Standard and customized products to meet different customer needs.

By 2018, global market has spread to 53 countries to USA, Canada, Mexico, Brazil, Peru, Russia, German, UK, France, Finland, Netherlands, Poland, Switzerland, Thailand, Philippines, Singapore, Malaysia, Australian, South Africa etc. and the market continues to expand.

At present 7 Tier-one agents around the world provide LIB products, installation and maintenance service for customers. Make things simple and convenient.

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LIB

LIB became a registered trademark of our company since 2017 year.

PARTNER

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CE
ROHS

CERTIFICATE OF CONFORMITY

Certificate No.: BKC-170902828C

Certificate of Conformity

Applicant: Xi'an LIB Environmental Simulation Industry
 No.5 Zhangba First Street, Xian High-Tech Area, Shaanxi, P.R. China

Manufacturer: Xi'an LIB Environmental Simulation Industry
 No.5 Zhangba First Street, Xian High-Tech Area, Shaanxi, P.R. China

Trademark: LIB

Product: Xenon Accelerated Weathering Test Chamber

Model: XL-S-600, XL-S-600, XL-750, XL-S-750

Test Standard: EN ISO 12100:2010
 EN 60504-1:2006+A1:2009+AC:2010

The certificate of conformity is based on an evaluation of a sample of the above mentioned products. It does not imply an assessment of the whole production. It is possible to use CE marking to demonstrate the compliance with the EMC Directive 2004/108/EC and LVD Directive 2014/35/EU. It is only valid in connection with the test report number: BKC-170902828R

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 E-mail: bkc@bkc-lab.com Certificate Search: <http://www.bkc-lab.com>

CERTIFICATE OF CONFORMITY

Certificate No.: BKC-170902827C

Certificate of Conformity

Applicant: Xi'an LIB Environmental Simulation Industry
 No.5 Zhangba First Street, Xian High-Tech Area, Shaanxi, P.R. China

Manufacturer: Xi'an LIB Environmental Simulation Industry
 No.5 Zhangba First Street, Xian High-Tech Area, Shaanxi, P.R. China

Trademark: LIB

Product: Xenon Accelerated Weathering Test Chamber

Model: XL-S-600, XL-S-600, XL-750, XL-S-750

Test Standard: IEC 62321-1:2013

The EUT described above has been consolidated by us and found in compliance with the council RoHS directive 2011/65/EU. It is possible to use CE marking to demonstrate the compliance with this RoHS Directive. It is only valid in connection with the test report number: BKC-170902827R.

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