



# XI'AN LIB ENVIRONMENTAL SIMULATION INDUSTRY

Climatic Test Chamber Manufacturer and Supplier

## Xenon Arc Test Chamber

## Model XL-S-750





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## Climatic Test Chamber Manufacturer and Supplier

### Standard Features

- ◆ 1 piece of 4500 W water-cooled Xenon Lamp with inner quartz and outer borosilicate filter
- ◆ Programmable color display touch screen controller to control and display test parameters
- ◆ Measurement and control of Irradiance 300-400 nm
- ◆ Measurement and control of Black Panel Temperature( BPT)
- ◆ Measurement and control of Chamber Temperature
- ◆ Measurement and control of Chamber humidity
- ◆ Water spray system with build-in 50L water reservoir
- ◆ Control panel located on right side of test chamber
- ◆ Safety protection system
- ◆ 380V, 50Hz

### Main Technical Parameter

Model	XL-S-750
Internal dimensions D*W*H	950*950*850 mm
Overall dimensions D*W*H	1300*1420*1800 mm
Specimen Capacity	34pcs
Specimen holder size	90*200mm
Irradiation Source	1 piece of 4500 W water-cooled Xenon Lamp with inner quartz and outer borosilicate filter
Irradiance Range	35 ~ 150 W/m <sup>2</sup>
Bandwidth Measurement	300-420nm
Chamber Temperature Range	Ambient ~100°C±2°C
Black Panel Temperature	BPT 35 ~85°C±2°C
Relative Humidity Range	50~98% R.H±5% RH
Water Spray cycle	1~9999H59M, adjustable
Controller	programmable color display touch screen controller, PC Link, RS-232 interface
UV Radiometer	Tolerance: ±5%
Heating system	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
Water supply system	Automatic water supply; Water purification system
Safety device	Humidifier dry-combustion protection; over-temperature protection; over-current protection; Refrigerant high-pressure protection; Water shortage protection, Earth leakage protection;
Interior material	SUS304 stainless steel
Exterior material	Steel Plate with protective coating
Thermal insulation	Polyurethane foam
Observation window	Interior lighting , double-layer thermo stability silicone rubber sealing
Power Supply	AC380V 50HZ
Standard	ISO 105-B02/B04/B06, ISO4892-2, ISO11341. AATCC TM16, TM169, ASTM G155-1/155-4, JIS L0843, SAEJ1960/1885, JASOM346, PV1303, IEC61215, IEC62688



## Design and Construction

### ● Test Area and Sample Holder

Test area is made of stainless-steel.

Standard sample holder, size is 80\*150mm, can mount 34 pieces of specimens.

### ● Irradiation Source - Xenon Arc Lamp

Irradiation Source with 1 piece of 4500 W water-cooled xenon lamp with inner quartz and outer borosilicate filter

Average Lamp Life is 1600hours.

### ● Control Panel

Programmable color display touch screen controller, PC Link, R-232 interface

Program: 100 groups in 999 sections

### ● Cooling System

Mechanical compression refrigeration system

Refrigerating unit is French TECUMSEH compressor.

Two cascade compressor

Environment friendly refrigerant R404a for first stage,

R23 for the second stage

### ● Humidity System

External isolation, stainless steel surface evaporation humidifier

### ● Water Spraying

Automatic water supply, water purification system, water saving.

Water reservoir 50 Liter

### ● Radiometer & Sensors

Temperature sensor PT-100 A class, Resolution:  $\pm 0.001$  °C

Humidity sensor Dry and wet bulb, Resolution:  $\pm 1\%$ RH

UV Irradiance Radiometer, Tolerance:  $\pm 5\%$

Black panel thermometer.

### ● Safety Protection

Humidifier dry-combustion protection

Independent over-temperature protection,

Water shortage protection

Over-current protection

Refrigerant high-pressure protection switch

Earth leakage protection and so on

### ● Power Supply and Wiring

380V, 50 Hz 10% +/-

Three-phase five little system





**Package with Export Standard Wooden Box**

Can be used for Sea, Air, Railway, Truck transportation.



**Installation**

Operation manual and video available for installation & operation

**Warranty & Service**

3 Years Warranty, Lifelong Follow-up Services.

**Environment conditions**

Temperature: 5 °C --35 °C , Relative humidity: ≤85%,  
 pressure: 86kPa—106 Kpa

**Space conditions**

Chamber shall be installed on flat floor, with good ventilation  
 No combustible material, explosive material or strong vibration around.  
 No direct sunlight or other heat sources direct radiation.  
 No strong airflow around.  
 No strong electric field around.

**After-Sales Service**

3 Years Warranty, Lifelong Follow-up Services.

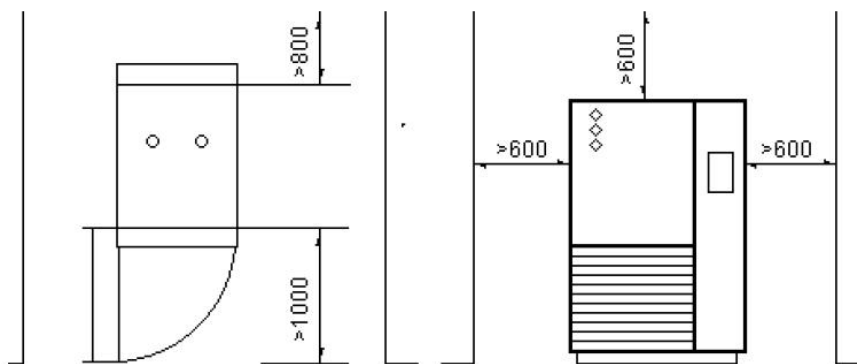
Training how to install and operate the machine.

Training how to maintain the machine.

Response within 24 hours once got questions from customers.

Send spare parts within 2 days after got notice.

Engineers available to service machines overseas to install and commissioning.

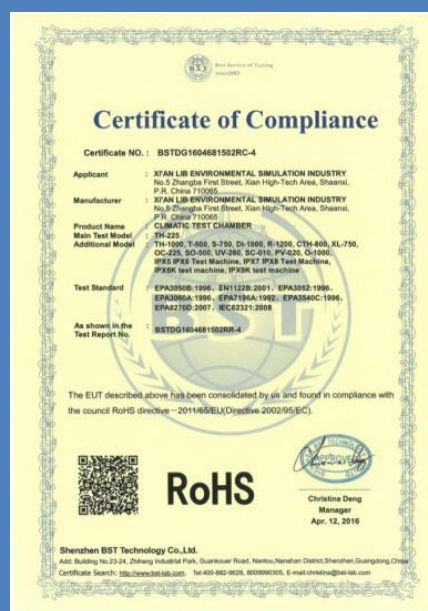


Xi'an LIB environmental simulation industry is a manufacture and exporter of climatic test chambers in China, and have over 8 years overseas market in test chambers to more than 25 countries.

We provide various climatic chambers and service to accredited laboratories, manufacturing industry, institute, university, companies and other partners. And got testimonials from many of our esteemed companies.

To provide better service for customers, we have assembled a team of experienced and motivated people to provide service as

- An extensive range of standard and custom climatic test chambers
- Services, Maintenance & Calibration for all kinds of environmental chambers
- Provide test solutions



## Xi'an LIB Environmental Simulation Industry

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