

□ **Salt Spray Corrosion Test Chamber**



S-010

 **Temperature**  
Ambient ~ +60℃

**Salt Fog Deposition**  
1 ~ 2ml / 80cm<sup>2</sup> · h





# Salt Spray Test Chamber

## 【Technical Parameter】

Model		S-010	S-016	S-020
Internal dimensions (mm)		1000*1300*600	900*1600*720	1000*2000*800
Overall dimensions (mm)		1200*2200*1400	1300*2500*1600	1420*3000*1850
Interior Volume (L)		780	1030	1600
Parameter	Temperature Range	Ambient ~ +60 ℃		
	Temperature Fluctuation	± 0.5 ℃		
	Temperature Deviation	± 2.0 ℃		
	Humidity Range	95% ~ 98% RH		
	Salt Fog Deposition	1~2ml / 80cm2 · h		
	Spray Type	Continuous / Periodic		
Structure	Heating Element	Nichrome heater		
	Salt Fog Collected	Fog collector and fog measure cylinder		
	Air Preheating	Saturated air barrel (31Liter)		
	Spraying System	Atomizer tower and Spray nozzles		
	Sealing	Pneumatic seal		
	Controller	PID controller		
	Temperature Sensor	PT100Ω / MV A-class		
	External Water Solution Tank(mm)	340*230*230 (18L)		
	View window Size (mm)	800*300		
	Safety Device	Humidifier Dry-combustion Protection; Over-temperature Protection; Over-current Protection; Water Shortage Protection; Earth leakage Protection		
Material		Glass fiber reinforced plastics		
Standard Configuration		8 round bars and 7 V-shaped grooves		
Power Supply		380V 50Hz		
Maximum Noise		65 dBA		
Standard		ASTMB117, ISO9227		
Environmental Conditional		5℃~+35 ℃ ≤85% RH		

▣ Standard & customized

\* pay attention to the environmental condition during installing



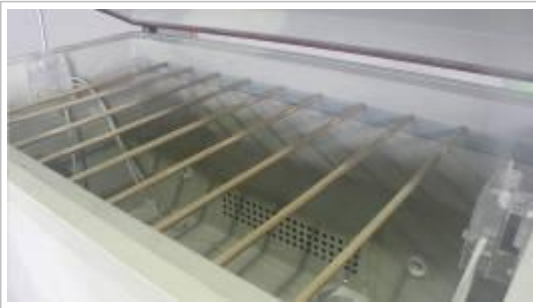


1.Workroom

The material is glass fiber reinforced plastics which has strong corrosion resistance, one-time forming, Reinforced design, long service life and high temperature resistance. Pneumatic switch lid.

The sample holder contains 8 round bars and 7 V-shaped grooves for different tests.

Pneumatic seal



3.Salt Water Tank

An external 18-liter salt solution tank is equipped with a brine mixing system to keep the solution even.



5.Controller

PID programmable touch screen controller, network connection computer.

Can edit 100 programs 20 segment.

The set system language is English for standard.



2. Salt Spray Device

The spray tower is adjustable in height and spray volume to meet different test standards.

Quartz nozzles are easy to clean and resistant to high temperatures, corrosion, and clogging.

Spray pressure is 83KPA according to the standard.



4.Saturated Barrel

The air is preheated in the saturated barrel, and the heating tube is perpendicular to the saturated barrel.

The saturated barrel has protection against dry burning. If the water level is low, the spray will stop, and the air source will not be supplied to avoid damage to the equipment.



6.Castor

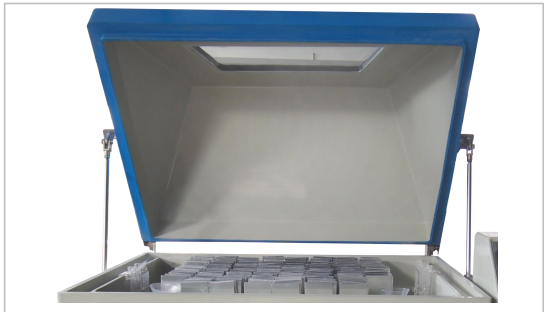
Install 4 castors for easily moving, and with brakes function.

Castor height is adjustable.



7.Pneumatic Open/Close Lid

The equipment is equipped with air source diverting device to distribute the compressed air to the opening system to realize the electrification opening/closing control of the lid

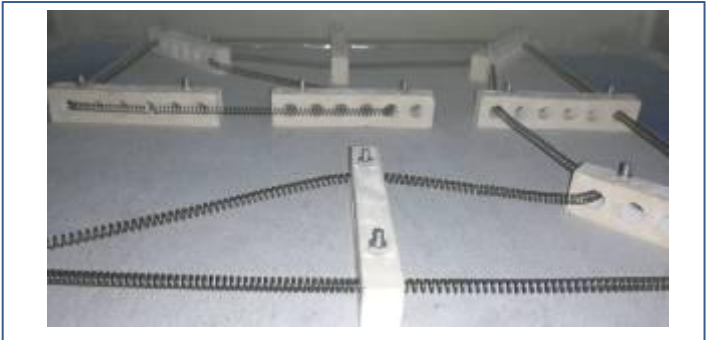


Core Function



It is tower salt spray system. The air generated by the air compressor is purified, preheated, and depressurized, and then enters the nozzle. The solution replenishment system supplies the solution to the nozzle suction pipe. When spraying, the compressed air rushes out of the nozzle, creating a negative pressure above the suction pipe. Under the action of negative pressure, the salt water flows toward the glass nozzle to the tip cone and spreads to the entire working space to form a diffuse state, simulating the salt spray environment.

Spraying System



The bottom of the chamber is equipped with heating wire. When the resistance wire is heated, the air temperature of the chamber rises.

Heating System



The equipment needs a air compressor hole (diameter 13MM), air pressure balance system and water vapor separation system ensure that the pressure during spraying is uniform and constant.

Air Compressor Control



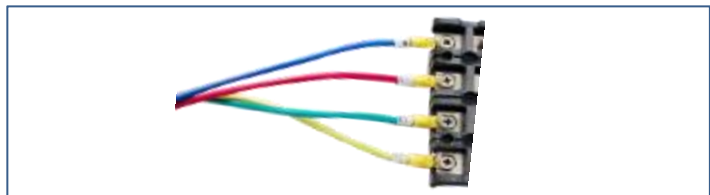
PT-100 Class A sensor, real-time accurate detection and display of temperature changes at 0.001 degrees.

Temperature Sensor



After the test, the fog of the studio can be quickly removed, and the observation window can be quickly moved to view the change of the measuring pieces.

Exhaust System



Voltage 380V 50Hz 3 phase.  
L1, L2, L3, PE, N, grounding protection.  
Standard 2m long cable

Wiring System

Over Temperature Protection	Over Current Protection	Humidifier Dry Combustion Protection
Water Shortage Protection	Earth Leakage Protection	

Protection System

## Option

## Salt Spray Test Chamber

**Air Compressor**

**Salt for Salt Spray Testing**

**Ultrasonic Spray System**

**Salt Solution Tank Temperature Control**

**Workroom Cleaning System**

**Special Sample Holder**



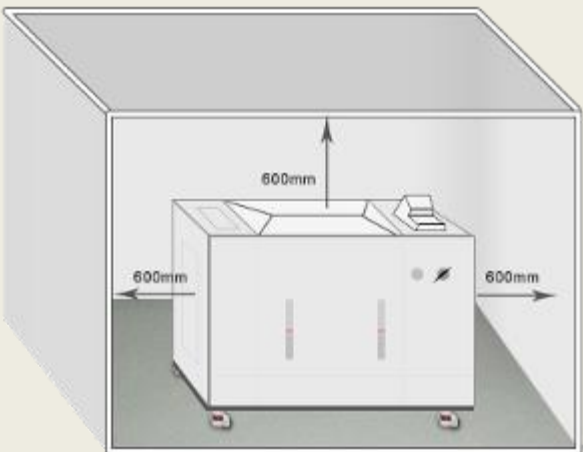
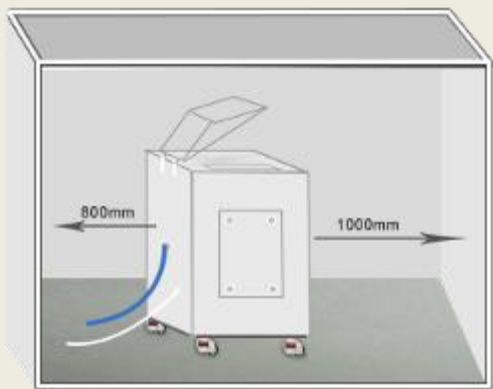
## Install Condition

### 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.

Gross weight: 520kgs~  
Package size: 2070\*1430\*1730 mm

## 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

### 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 SO<sub>2</sub> H<sub>2</sub>S 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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