

▣ Salt Spray Corrosion Test Chamber



Temperature
Ambient ~ +60℃

Salt Fog Deposition
1 ~ 2ml / 80cm² · h

S-150



Automobile



Electronics



Battery



Paintings



Aerospace



Navigation



Salt Spray Test Chamber

【Technical Parameter】

Model		S-150	S-250	S-750
Internal dimensions (mm)		470*590*400	640*1000*500	750*1100*500
Overall dimensions (mm)		620*1400*1050	810*1800*1180	920*1900*1200
Interior Volume (L)		110	320	410
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	Hydrostatic hood seal		
	Controller	PID controller		
	Temperature Sensor	PT100Ω / MV A-class		
	Water Solution Tank(mm)	350*180*320	250*300*350	
	Safety Device	Humidifier Dry-combustion Protection; Over-temperature Protection; Over-current Protection; Water Shortage Protection; Earth leakage Protection		
Material		Glass fiber reinforced plastics		
Lid Material		Transparent resin		
Standard Configuration		6 round bars and 5 V-shaped grooves		
Power Supply		220V 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. The transparent lid of salt spray chamber is made of resin, and is manually opened and closed

The sample holder contains 6 round bars and 5 V-shaped grooves for different tests.

Hydrostatic seal.



3.Salt Water Tank

Built-in 30 liter salt solution tank with a brine mixing system to keep the brine even.



5.Controller

PID control system, set the test parameters by button type. Continuous /periodic spray type can be operated according to test conditions.

Equipped with a timer for complete recording of spray time.



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.



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.



6.Castor

Install 4 castors for easily moving, and with brakes function. Castor height is adjustable.

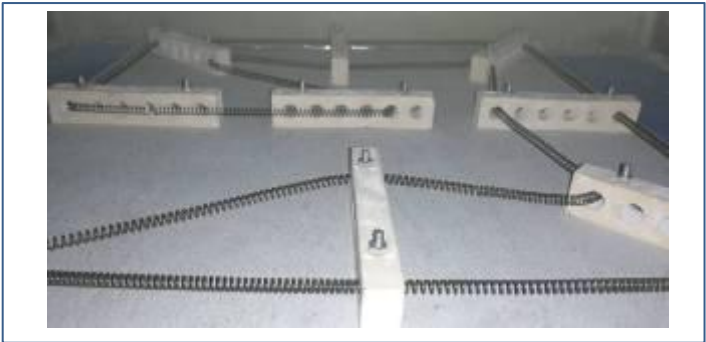


Core Function



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 an 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 System



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

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

Touch Screen Controller

Workroom Cleaning System

External Salt Solution Tank

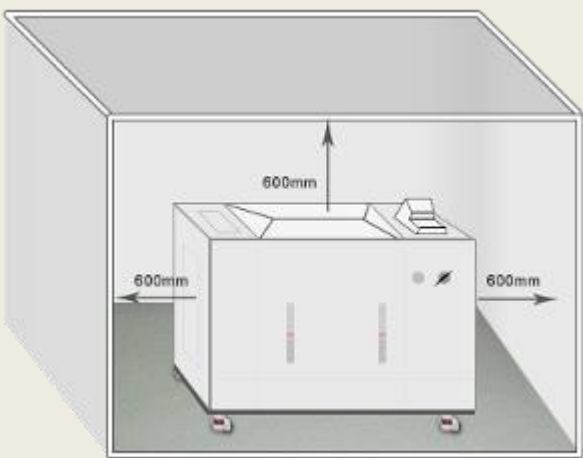
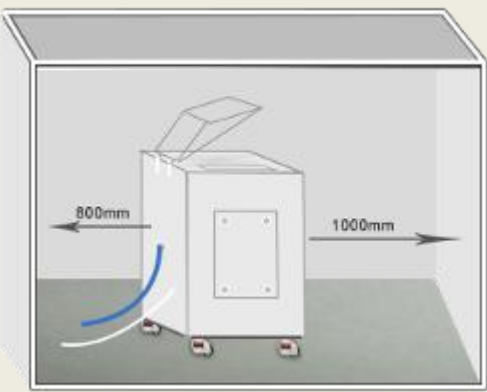
Install Condition

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: 200kgs~
Package size:1550*870*1390 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 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 Industry®

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