

□ SO₂ Noxious Gas Corrosion Chamber



SO-010

Temperature 15°C ~ 80°C

Humidity

30% ~ 98%RH

SO₂ Concentration

25±5 ppm

Technical Parameter

		SO-100	SO-225	SO-500	SO-800	SO-1000
Internal Dimensions (mm)		450*450*500	500*600*750	800*700*900	800*1000*1000	1000*1000*1000
Overall Dimensions (mm)		1050*880*1440	1050*1020*2000	1320*1320*2170	1470*1520*2315	1670*1520*2315
Interior Volume (L)		100	225	500	800	1000
Parameter	Temperature Range	15 °C ∼ 80 °C				
	Temperature Fluctuation	± 0.5 °C				
	Temperature Deviation	± 2.0 °C				
	Humidity Range	30% ~ 98% RH				
	Humidity Deviation	±1% RH				
	SO2 Concentration	25±5 ppm				
	Air Change Rate	3~5 /h				
Structure		Cooling system Mechanical compression refrigeration system				
	Cooling	Refrigerating unit		French TECUMSEH compressor		
		Refrigerant		R404A		
	Heating Element			Nichrome heater		
		Humidifier External isolation, stainless steel surface evaporation humidi			ation humidifier	
	Humidity	Water Supply Sys	ctom	Water purification system		
		Water Supply Sys	sterri	Automatic water supply		
		Dehumidification	on	Evaporator		
	Controller	Programmable color LCD touch screen controller				
		Ethernet connection, PC Link				
	Sensor	Temperature Sensor		PT100Ω / MV A-class		
		Humidity Sens	sor	Dry and wet bulb sensor		
		Gas Sensor	Gas Sensor SO ₂ gas sensor			
	Build-in Water Tank(mm)	270*300*400		270*300*450		
	View Window Size (mm)	250*280		30	0*330	330*370
	Air Circulation	Centrifugal wind fan				
	Door Lock	Electromagnetic lock				
	Gas Exhaust Device	SO ₂ Exhaust Unit				
	Safety Device	Humidifier Dry-combustion Protection; Over-temperature Protection; Over-current Protection; Water Shortage Protection; Earth leakage Protection				
	Interior material	SUS304 stainless steel +Glass fiber reinforced plastics				
Exterior material		Steel Plate with protective coating				
Power Supply		380V 50Hz				
Maximum Noise		65 dBA				
Standard		IEC60068-2-42; IEC60068-2-60				
Environmental Conditional 5°C∼+35 °C ≤85% RH					RH	

[□] SO2 cylinder will be prepared by the user;



1.Workroom

The inner material is a double-layer material made of SUS304 stainless steel to ensure the robustness, and the outer layer is affixed with Fiber Reinforce Plastic for corrosion protection.

Standard configuration of two sample holders made of FRP.



2. Viewing Window

The door material is a double-layer material made of SUS304 stainless steel and the outer layer is affixed with Fiber Reinforce Plastic for corrosion protection.

The conductive film is located on the interior glass to prevent window frosting, built-in LED light for the work room lighting for clearly observing samples.



3.Controller

PID programmable color touch screen controller, network connection computer.

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.



4.SO₂ Exhaust Device

The SO2 exhaust device is equipped with an NAOH solution tank to dilutes SO2 to make workplace clean and safe.

Exhaust the gas after the test, automatic controlled on controller.



5.Water Re-circulation

Water purifier: mainly purification from water source to water tank

The filter element is suggested to be replaced once a year. Water re-circulation system that reduced water use and a series of water pipes.



6.Castor

Install 4 castors for easy to move, and with brakes function. Castor height is adjustable.



7.SO₂ Sensor

 $\ensuremath{\mathsf{SO}}_2$ gas concentration detection transmitter High accuracy, easy to exchange



8. Electromagnetic Lock

Door lock is an electromagnetic lock, which will generate a strong suction force and tightly attract the iron plate to lock the door

Unlocking is operated on the controller for safety and prevent malfunction.



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



Cooling 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.

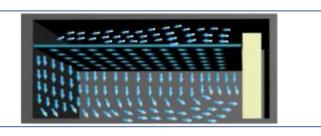
In this way, the refrigerant completes a refrigeration cycle through four basic processes of evaporation, compression, condensation, and throttling in the system



Humidity System

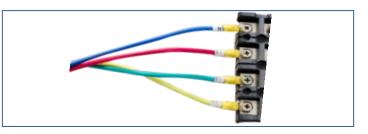
When the current humidity is less than the set point humidity, the equipment is automatically humidified. The humidification of is automatically heated by the humidification tank. When the water is heated, steam is generated, and then the steam is injected into the working room to increase the test humidity.

SO2 Control System



Air Circulation

The centrifugal fan is installed at the rear of the chamber body, and the air is uniformly distributed through the air outlet. Air circulation adopts air outlet at top and air return at bottom, and the wind speed and pressure are in compliance with the test standard, and the temperature is stabilized at the moment of switching. The high-quality centrifugal fan is used to strongly supply air circulation, making the temperature distribution in the test area uniform.



Wiring System

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

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

Shipping & Packaging



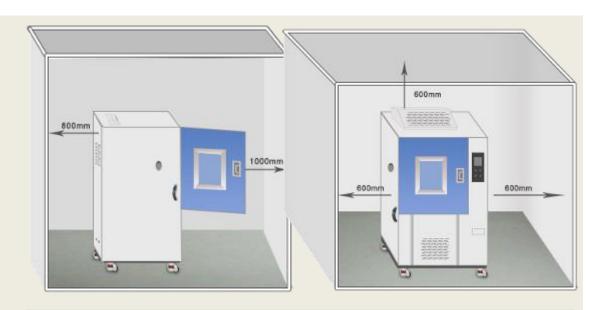
Install Condition

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: 342kgs~

Package size: 1110*1130*1800mm

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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PARTNER

























CE ROHS



