

□ **Ozone Test Chamber**



OC-250

**Temperature**  
0°C ~ +100°C

**Humidity**  
30% -98%RH

**Ozone Concentration**  
1 ~ 1000PPHM



Rubber Tires



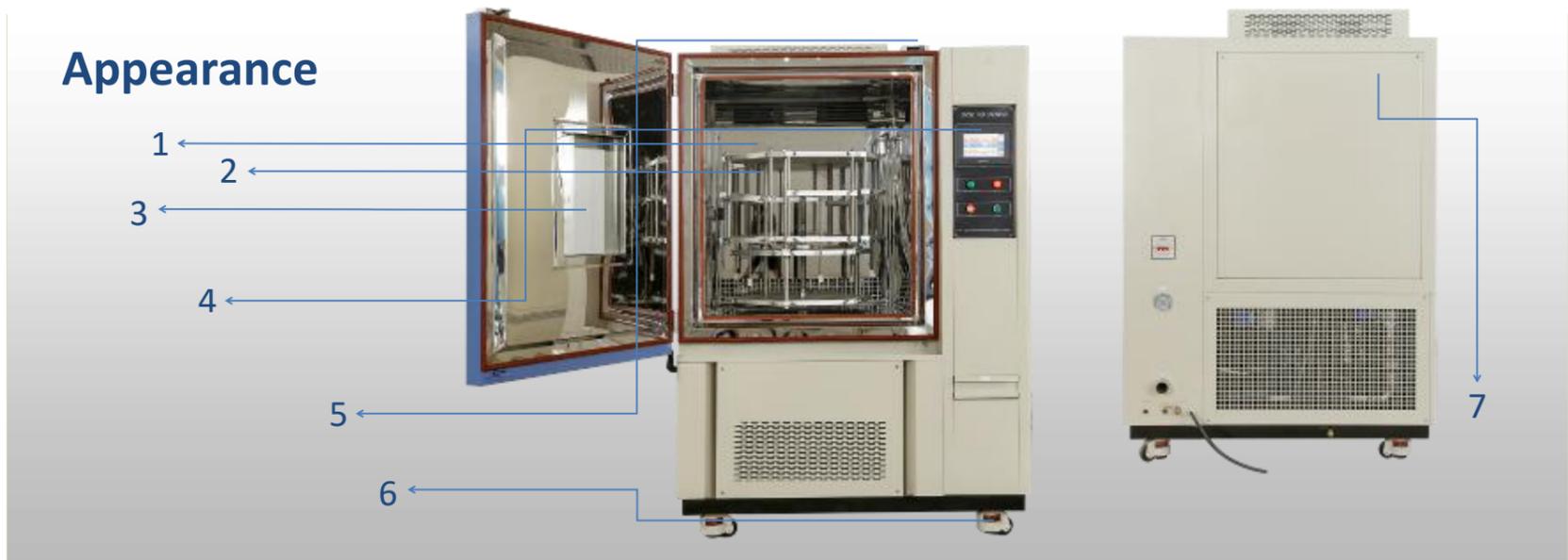
Cable

## 【Technical Parameter】

Model	OC-250	OC-500	OC-800	OC-010
Internal Dimension (mm)	600*600*700	700*800*900	800*1000*1000	1000*1000*1000
Overall Dimension (mm)	960*1150*1860	1180*1350*2010	1280*1550*2110	1500*1550*2110
Interior Volume (L)	250	500	800	1000
Parameter	Temperature Range	0℃ ~ +100 ℃		
	Temperature Fluctuation	± 0.5 ℃		
	Temperature Deviation	± 2.0 ℃		
	Humidity Range	30% ~ 98% RH		
	Humidity Deviation	± 2.5% RH		
	Cooling Rate	Ambient ~ 0℃ within 20 min		
	Ozone Concentration	1~1000PPHM		
	Sample Holder Rotate Speed	0~10 r/min		
	Airflow Rate	0 ~ 60L/min		
	Clamps Tensile Stretch	5%~35%		
Structure	Cooling	Cooling system	Mechanical compression refrigeration system	
		Refrigerating unit	French TECUMSEH compressor	
		Refrigerant	R404A, R23	
	Heating Element	Nichrome heater		
	Controller	Programmable color LCD touch screen controller		
		Ethernet connection, PC Link		
	Humidity	Water supply system	Automatic water supply	
		Water supply system	Water purification system	
		Humidifier	External isolation, stainless steel surface evaporation humidifier	
		Dehumidification	Evaporator	
	Sensor	Temperature Sensor	PTR Platinum Resistance PT100Ω/MV A-class, accuracy 0.001℃	
		Humidity Sensor	Dry and wet bulb sensor	
		Gas Sensor	Ozone gas sensor	
	Ozone Generator	Silent discharge type ozone generator		
	Build-in Water Tank(mm)	270*300*400	270*300*450	
View Window Size(mm)	250*280	300*330	330*370	
Air Circulation	Centrifugal wind fan			
Door Lock	Electromagnetic lock			
Sample Holder	Static + dynamic combined sample holder			
Safety Device	Humidifier Dry-combustion Protection; Over-temperature Protection; Over-current Protection; Refrigerant High-pressure Protection; Water Shortage Protection; Earth Leakage 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	380V 50Hz			
Standard	ISO1431;ASTM 1149; IEC 60903 ;IEC60811-403;JIS K6259;ASTM D1171			
Maximum Noise	65 dBA			
Environmental Conditional	5℃~+35 ℃ ≤85% RH			

□ Standard & customized

\*pay attention to the environmental condition during installing



## Appearance

### 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 Sample Holder

Static + dynamic combined sample holder can stretch samples. Rotating sample holder allows the sample to be evenly exposed to the ozone condition.



### 3. Viewing Window

Double layer insulating glass 8cm thick, 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 ;can clearly observe samples.  
The light control button is located below the controller.



### 4. 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.



### 5. 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.



### 6. Castor

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



### 7. Insulation

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



### 8. 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.

### 9. Ozone Sensor

Ozone gas concentration detection transmitter  
High accuracy, easy to exchange



### 10. Ozone Exhaust Device

The ozone exhaust device is equipped with an activated carbon to absorb ozone to make workplace clean and safe.  
Exhaust the gas after the test, automatic controlled on controller



## 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.



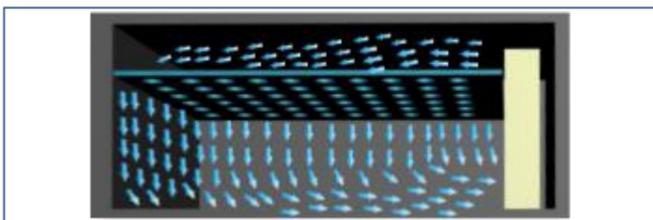
Humidity System

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.



Ozone Generating Unit

Use silent discharge type ozone generator, gas automatic generated It has low noise and high purity features.



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
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Protection System

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: 380kgs~  
 Package size: 2.5CBM

## 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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