

□ **Drying Oven**



O-100

**TEMPERATURE**  
Ambient ~ +300 °C



Automobile



Material



Electronics



Aerospace



Navigation



Commodity



Paintings



Battery



Pharmaceutical



Cable

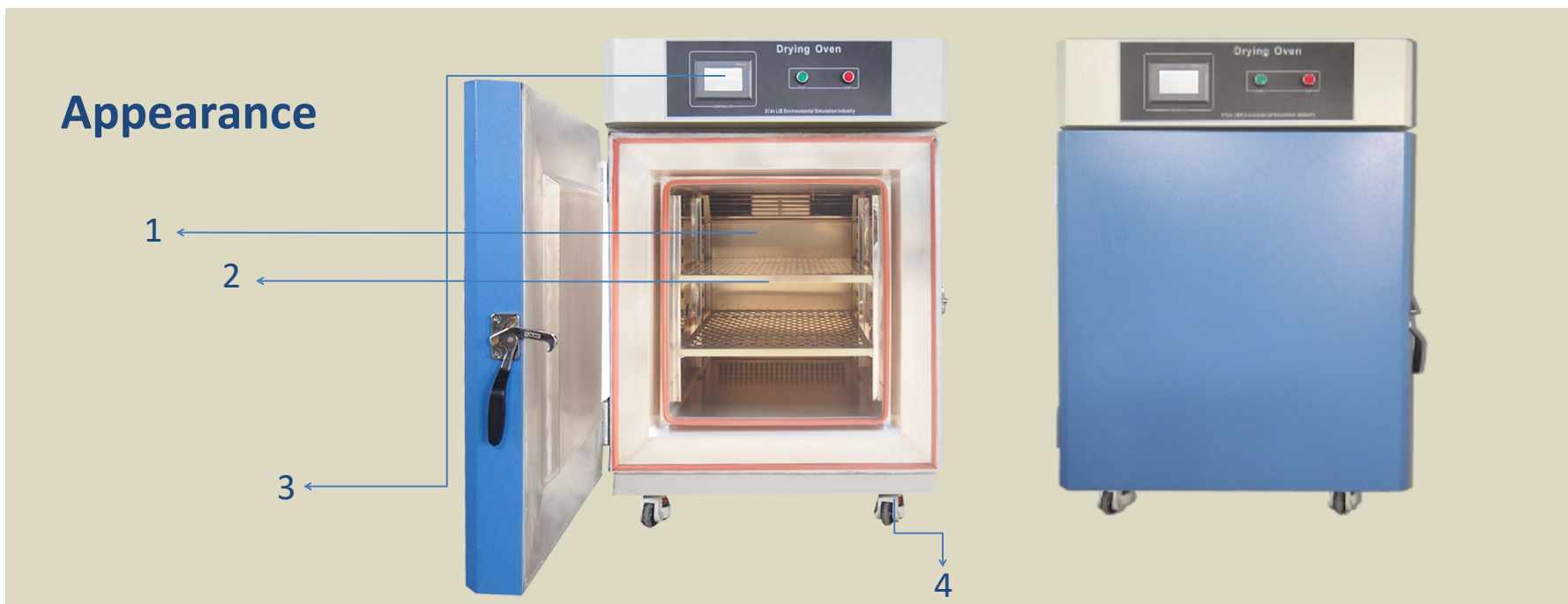
## 【Technical Parameter】

Model	O-100	O-225	O-500	O-800	O-1000
Internal Dimension (mm)	400*500*500	500*600*750	700*800*900	800*1000*1000	1000*1000*1000
Overall Dimension (mm)	750*880*850	800*950*1000	1100*1100*1300	1100*1450*1400	1300*1400*1400
Interior Volume	100L	225L	500L	800L	1000L
Parameter	Temperature Range	A: Ambient ~+250 °C B: Ambient ~+400 °C C: Ambient ~+900 °C			
	Temperature Fluctuation	± 0.5 °C			
	Temperature Deviation	± 2.0 °C			
	Heating Rate	6 °C / min			
	Heating Element	Nichrome heater			
	Controller	PID color LCD touch screen controller			
		Ethernet connection, PC Link(Optional)			
	Temperature Sensor	PTR Platinum Resistance PT100Ω/MV A-class, accuracy 0.001°C			
	View Window Size(mm)	120*150			
	Air Circulation	Centrifugal wind fan			
Safety Device	Over-temperature Protection; Over-current Protection; Phase Sequence Protection; Earth leakage Protection				
Material	Exterior Material	Steel Plate with protective coating			
	Interior Material	SUS304 stainless steel			
	Thermal Insulation	Polyurethane foam (Refractory brick)			
	Observation Window	Interior lighting, double-layer thermo stability silicone rubber sealing			
Standard Configuration	2 shelves				
Power Supply	380V 50Hz				
Maximum Noise	65 dBA				
Environmental Conditional	5°C~+35 °C ≤85% RH				

- High temperature can up to 900°C.
- No window when the temperature exceeds 250 ° C,
- No cable hole when the temperature exceeds 250 ° C,

- Standard & customized.

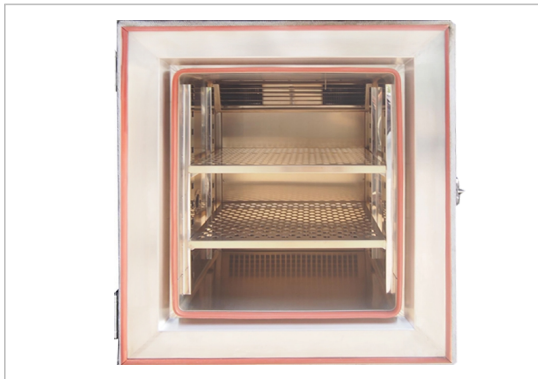
\* pay attention to the environmental condition during installing



## Appearance

### 1.Workroom

The internal material is 304 stainless steel, mirror surface, rust-proof to high and low temperature and moisture corrosion;  
Nice ruggedness and long life.



### 3.Controller

PID color touch screen controller, control and display temperature, time and other parameters.  
The set system language is English for standard.



### 5.Insulation

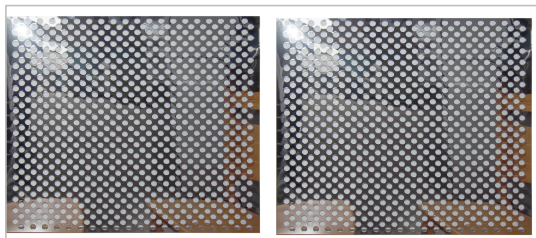
10cm thick polyurethane foam and insulation cotton;  
Better insulation performance, degradation resistance, environmental protection, noise reduction.



### 2.Sample Shelf

SUS304 stainless steel punching sample shelf 2pcs;  
Standard load of 50KGS for each layer of sample shelf;  
The height of the shelf is adjustable and can be removed directly to facilitate the various sizes of test samples.  
Conducive to the air circulation.

Special sample shelf can be customized



### 4.Castor

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



### 6.External Materials

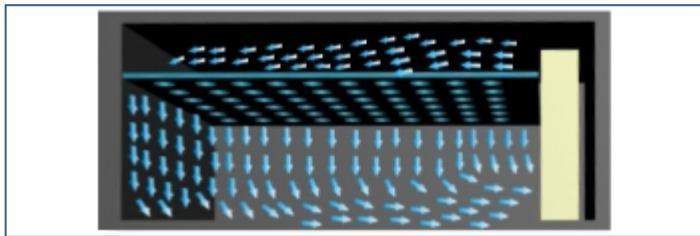
A3 steel plate with galvanized coating;  
Electrostatic treatment; High and low temperature corrosion resistance; High hardness, anti - impact  
Very high safety factor;  
Color can be customized.

## Core Function



**Heating System**

Heating element is Nichrome heater, and after energization, the resistance becomes larger and the temperature rises.



**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.



**Controller System**

The PID controller as the main control unit to command, operate, detect and redistribute the various components of the equipment to achieve maximum effective use.

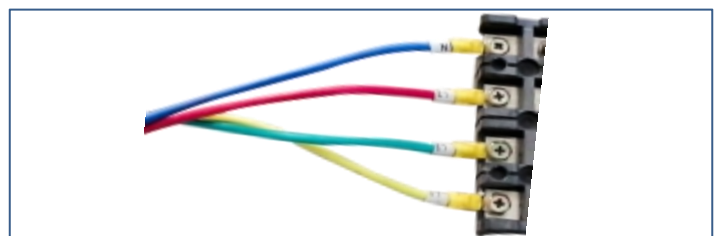
The temperature control adopts P.I.D. S.S.R. system synchronous coordinated control, which can improve the stability and life of the control components and interface.

Screen display function: LCD display, which can display test conditions (including temperature section, cycle number, running time and remaining time



**Temperature Sensor**

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



**Wiring System**

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

Over Temperature Protection	Over Current Protection Earth Leakage Protection Phase Sequence 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: 206kgs~  
 Package size: 1120\*890\*1250 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 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 solutions. Standard and customized products to meet different customer needs.

By 2018, global market has spread to 51 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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## PARTNER

### LIB Industry®

LIB became a registered trademark of our company since 2017 year.



## CE ROHS

