





XI'AN LIB ENVIRONMENTAL SIMULATION INDUSTRY Climatic Test Chamber Manufacturer And Supplier

Temperature Test Chamber





[Technical Parameter]

Model		T-100	T-225	T-500	T-800	T-1000	
Internal Dimension (mm)		400*500*500	500*600*750	700*800*900	800*1000*1000	1000*1000*1000	
Overall Dimension (mm)		860*1050*1620	960*1150*1860	1180*1350*2010	1280*1550*2110	1500*1550*2110	
Interior Volume		100L	225L	500L	800L	1000L	
Heat load							
Parameter	Temperature Range	A : -20 °C ~ +150 °C B : -40 °C ~ +150 °C C: -70 °C ~ +150 °C					
	Temperature Fluctuation	± 0.5 ℃					
	Temperature Deviation	± 2.0 ℃					
	Cooling Rate	1 ℃ / min					
	Heating Rate	3 °C / min					
	Cooling	Cooling system Mechanical compression refrigeration system					
		Refrigerating unit	Refrigerating unit French TECUMSEH compressor				
		Refrigerant R404A, R23					
	Heating Element	Nichrome heater					
ស	Controller	Programmable color LCD touch screen controller					
Structure		Ethernet connection, PC Link					
lre	Temperature Sensor	PTR Platinum Resistance PT100 Ω /MV A-class, accuracy 0.001 $^\circ$ C					
	View Window Size(mm)	250*280		300*330		330*370	
	Air Circulation	Centrifugal wind fan					
	Safety Device	Over-temperature Protection; Over-current Protection; Refrigerant High-Pressure Protection; Earth leakage Protection					
	Exterior Material	Steel Plate with protective coating					
Material	Interior Material	SUS304 stainless steel					
erial	Thermal Insulation	Polyurethane foam and insulation cotton					
	Observation Window	Interior lighting, double-layer thermo stability silicone rubber sealing					
	Standard Configuration	1 Cable hole (Φ 50,) with plug; 2 shelves					
	Power Supply	220V 50Hz / 380V 50Hz					
	Maximum Noise	65 dBA					
E	nvironmental Conditional	5°C∼+35 °C ≤85% RH					

^D Low temperature can down to -86 $^{\circ}C$.

 The Refrigerant can be replaced by R449A/R508B. Standard & customized.

* pay attention to the environmental condition during installing

• The heat load can absorb 1000W in -20 $^{\circ}$ C.

Structures

Temperature Test Chamber



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.



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.



3.Cable Hole

A standard test hole, located at the left side of the work room, is provided with a sleeve inside to prevent moisture from entering the insulation layer. Equipped with flange.

4.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.



5.Controller

PID programmable color touch screen controller, network connection computer.

Can create120 programs 100 segment

LIB also can preset program into the controller based on user testing requirements.

The set system language is English for standard.



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.

The standard inner hole diameter is 50mm. Soft silicone plug seal; Metal enclosure closed, beautiful designed.



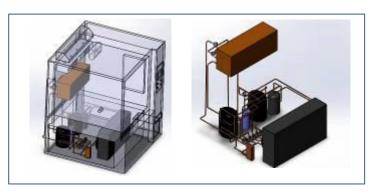
6.Castor

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



Structures

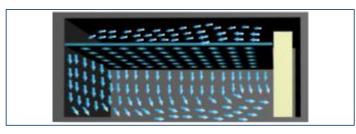
Core Function



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.



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, etc.).



Temperature Sensor



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

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

Protection System

Sample Shelf	 Quantity can be increased Special sample shelf can be customized 			
Cable Wire	 2.5m 3m 			
Test Hole	 Diameter 100mm Diameter 125mm Shape and size can be customized 			
Capacitive Temperature Sensor	VAISALAROTRONIC			
Observation Window	 Size can be customized Inner glass door Hand-in ports 			
Controller	 WiFi connection Mobile APP control Multi-language controller interface: Russian, French, Polish, Romanian, German 			

Shipping & Packaging

Environment Conditions

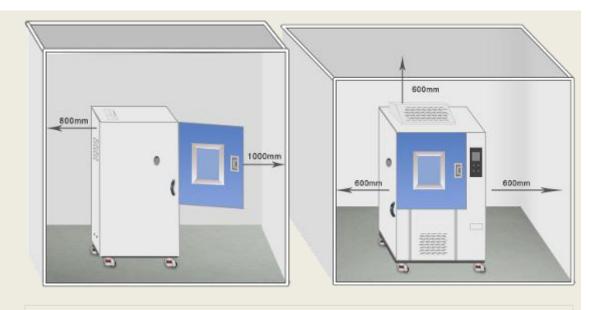
Temperature: +5°C ~ +35°C Relative humidity: ≤85%; Pressure: 86 KPa—106 KPa

Space Conditions

Sufficient space for ventilation



Install Condition



*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: 329kgs~ Package size: 1330*1050*1500mm

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.

Contact Us

PARTNER

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