



XI'AN LIB ENVIRONMENTAL SIMULATION INDUSTRY

Climatic Test Chamber Manufacturer and Supplier

Temperature Test Chamber





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Standard Features

- ◆ Temperature control and display unit
- ◆ French TECUMSEH compressor cooling unit
- ◆ Environment friendly refrigerant R404A & R23
- ◆ Heating element is Nichrome heater
- ◆ Circulation with cold resistance and low noise centrifugal fans
- ◆ Temperature sensor PT-100 , Resolution: ± 0.001 °C
- ◆ Programmable color LCD touch screen controller
- ◆ Viewing window with interior lighting.
- ◆ Viewing window size is 30*35cm .
- ◆ Test hole with silicone screw plug.
- ◆ 2 pieces of adjustable and removable shelving.
- ◆ Bottom install 4 castors for ease moving, and with brakes function
- ◆ RS-232 (RS-485) interface, PC Link, communication with LAN network interface
- ◆ Programs reach to 999 groups and 999 sections
- ◆ Safety protection system
- ◆ Interior material is high quality SUS304 stainless steel
- ◆ Exterior material is steel plate with protective coating, color is blue
- ◆ Thermal insulation is Polyurethane foam
- ◆ Silicon seal for door
- ◆ 240V, 50Hz +/- 10% , three-phase-five-wire system





Temperature Test Chamber

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
Temperature range	A: -20℃ ～+150 ℃; B: -40℃ ～+150 ℃; C: -70℃ ～+150 ℃; D: -86℃ ～+150 ℃;				
Temperature fluctuations	± 0.5 ℃				
Temperature deviation	± 2.0 ℃				
Heating rate	3 ℃ / min				
Cooling rate	1 ℃ / min				
Controller	Programmable color LCD touch screen controller				
	PC Link, R-232 interface				
Temperature Sensor	PTR Platinum Resistance PT100Ω/MV A-class				
Heater	Nichrome heater				
Cooling system	Mechanical compression refrigeration system				
Refrigerating unit	French TECUMSEH compressor				
Refrigerant	R404A, R23				
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				
Interior material	SUS304 stainless steel				
Thermal insulation	Polyurethane foam				
Observation window	Interior lighting , double-layer thermo stability silicone rubber sealing				
Standard configuration	1 Cable hole (Φ 50) with plug; 2 shelves				
Timing Function	0.1~999.9 (S、M、H) settable				
Power Supply	380V 50HZ				
Environmental conditional	5℃～+40 ℃ ≤85% RH				



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Design and Construction

● Test Area

Material of the test cabinet is high quality SUS304 stainless steel.

Test hole (Φ 50mm, Φ 125mm), sealed with silicone screw plug.

Temperature sensor Pt100 platinum

2 pieces of adjustable and removable shelves



● Air Circulation

Air circulation fans in the workroom of the chamber.

The real wall of test area equipped with chip-type wind board.

Air flowing from top of wind board which control air direction return to air inlet to achieve air circulation.



● Cooling System

Mechanical compression refrigeration system

Refrigerating unit is French TECUMSEH compressor.

Two cascade compressor

Environment friendly refrigerant R404a for first stage,

R23 for the second stage



● Control Panel

PLC controller

Programmable color display touch screen controller.

Programs reach to 999 groups and 999 sections

RS-232 /RS-485 interface, PC Link, LAN network



● Large Viewing Window

Interior lighting

Window coated with conducting film to protect it from frost.

Size is 300*350mm W*H.



● Safety Protection

Over temperature protection,

Refrigerant high pressure protection

Over current protection

Earth leakage protection

● Power Supply and Wiring

380V 50HZ 10% +/-

3-phase



XI'AN LIB ENVIRONMENTAL SIMULATION INDUSTRY

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Package with Export Standard Wooden Box

Can be used for Sea, Air, Railway, Truck transportation.



Installation

Operation manual and video available for installation & operation

Warranty & Service

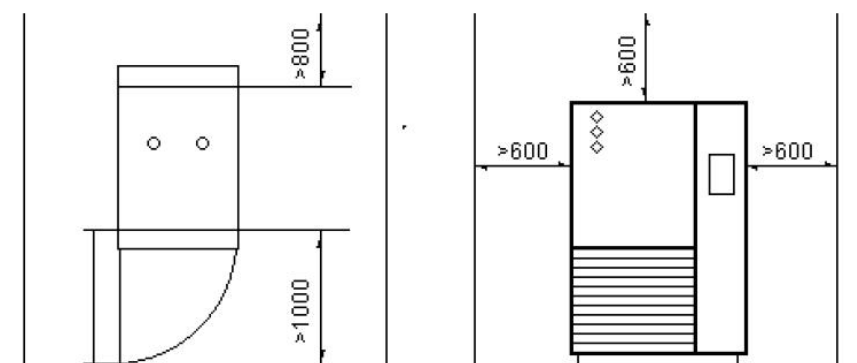
3 Years Warranty, Lifelong Follow-up Services.

Environment conditions

Temperature: 5 °C --35 °C , Relative humidity: ≤85%,
pressure: 86kPa—106 Kpa

Space conditions

Chamber shall be installed on flat floor, with good ventilation
No combustible material, explosive material or strong vibration around.
No direct sunlight or other heat sources direct radiation.
No strong airflow around.
No strong electric field around.



After-Sales Service

3 Years Warranty, Lifelong Follow-up Services.

Training how to install and operate the machine.

Training how to maintain the machine.

Response within 24 hours once got questions from customers.

Send spare parts within 2 days after got notice.

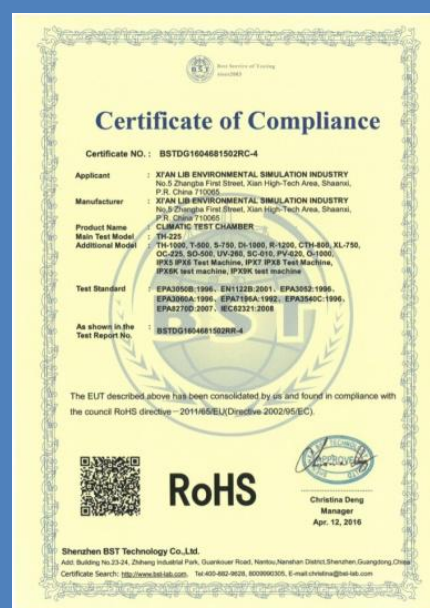
Engineers available to service machines overseas to install and commissioning.

Xi'an LIB environmental simulation industry is a manufacture and exporter of climatic test chambers in China, and have over 8 years overseas market in test chambers to more than 25 countries.

We provide various climatic chambers and service to accredited laboratories, manufacturing industry, institute, university, companies and other partners. And got testimonials from many of our esteemed companies.

To provide better service for customers, we have assembled a team of experienced and motivated people to provide service as

- **An extensive range of standard and custom climatic test chambers**
- **Services, Maintenance & Calibration for all kinds of environmental chambers**



Xian LIB Environmental Simulation Industry

www.lib-industry.com/

Add: No.5 Zhangba First St, Xian High-Tech Area, Shaanxi Province P.R.China 710065

Tel: +86 29 68918976

Skype: serena_lib

Email: serena@lib-industry.com ; sales@lib-industry.com