



XI'AN LIB ENVIRONMENTAL SIMULATION INDUSTRY

Climatic Test Chamber Manufacturer and Supplier

Benchtop Temperature Test Chamber





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.
- ◆ Test hole with silicone screw plug.
- ◆ 2 pieces of adjustable and removable shelving.
- ◆ Bottom install 4 castors for ease moving, and with brakes function
- ◆ Programs reach to 999 groups and 999 sections
- ◆ PC Link, communication with Ethernet interface
- ◆ 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
- ◆ 220V, 50 Hz 10% +/- single-phase

Main Technical Parameter

Model	T-50	T-80
Internal dimension D*W*H	320*350*450	400*400*500
Overall dimension D*W*H	800*1050*950	900*1100*1000
Useful volume	50	80
Temperature range	A:-20°C~+150 °C; B:-40°C~+150 °C; B:-70°C~+150 °C;	
Temperature fluctuations	± 0.5 °C	
Temperature deviation	± 2.0 °C	
Heating rate	3 °C / min	
Cooling rate	1 °C / min	
Temperature Sensor	PTR Platinum Resistance PT100Ω/MV A-class	
Temperature Resolution	± 0.001 °C	
Controller	Programmable color display touch screen controller	
Power Supply	220V, 50 Hz 10% +/- single-phase	
Environmental conditional	5°C~+40 °C ≤85% RH	



Design and Construction

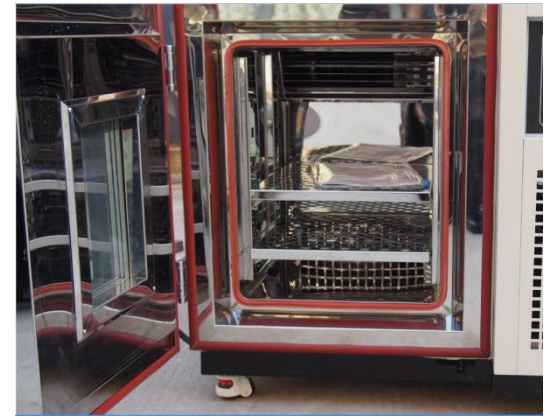
● Test area

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

Test hole, 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 number of air circulation fans is three.

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

Ethernet interface, PC Link



● Safety Protection

Over temperature protection,

Refrigerant high pressure protection

Over current protection

Earth leakage protection

● Power supply and Wiring

220V, 50 Hz 10% +/-





Package with Export Standard Wooden Box

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



Package information

Package size: 1050mm *950mm *1180mm D*W*H

Net Weight: 180KG

Gross weight: 210KG

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
Nocombustible material, explosive material or strong vibration around.
No direct sunlight or other heat sources direct radiation.
No strong air flow around.
No strong electric field around.

After-Sales Service

3 Years Warranty, Lifelong Follow-up Services.

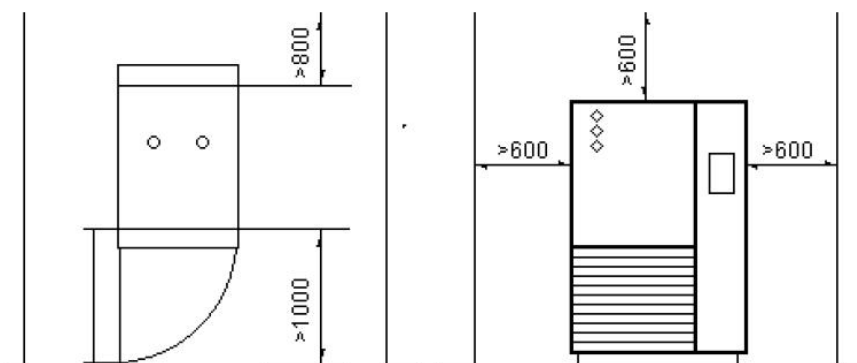
Training how to install and operate the machine.

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.

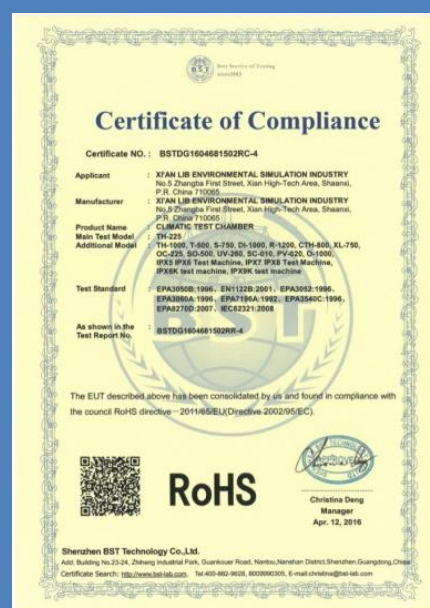


Xi'an LIB environmental simulation industry is a manufacture and exporter of climatic test chambers in China, and have over 8 years overseas market in test chambers to more than 25 countries.

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



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