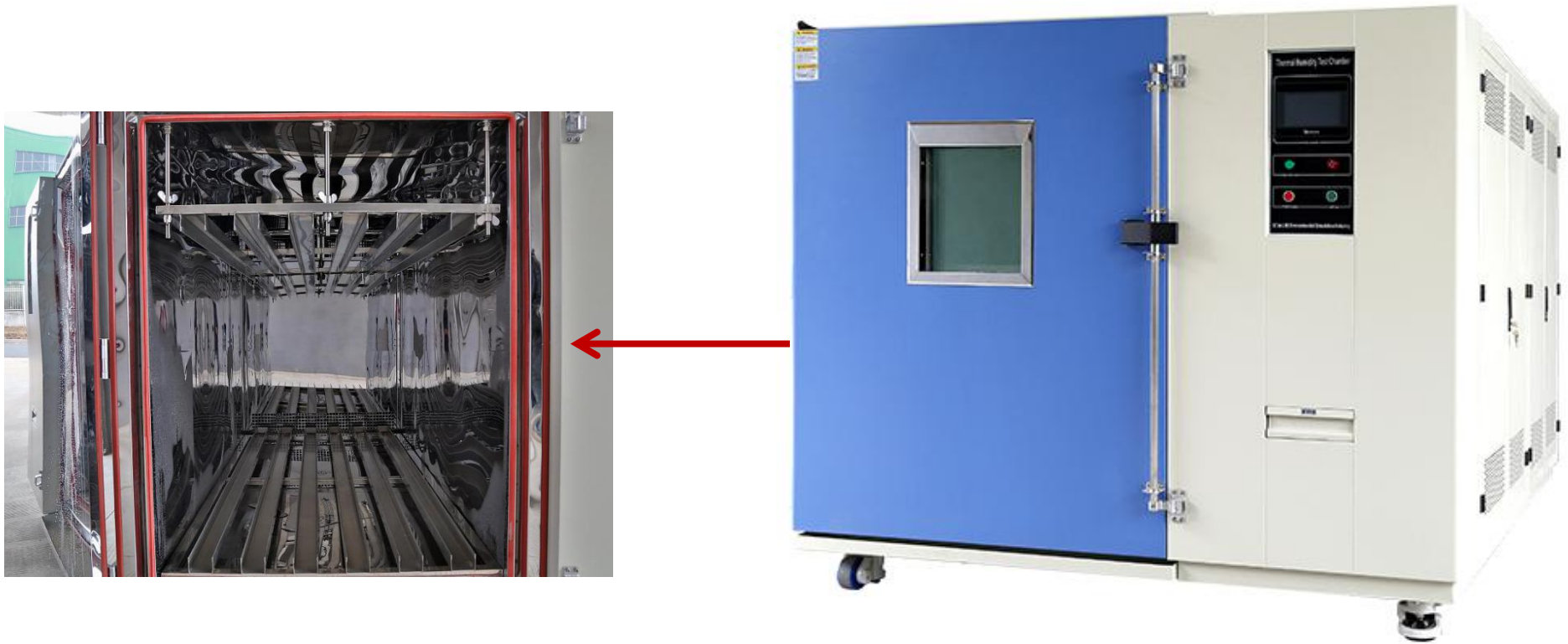




XI'AN LIB ENVIRONMENTAL SIMULATION INDUSTRY

Climatic Test Chamber Manufacturer and Supplier



PV Modules Climate Test Chamber

PV-04

Test chamber is for PV modules (solar panels) thermal cycling, humidity freeze cycle, and damp heat RH testing, to test whether PV modules can withstand high temperature with humidity and low temperature, to test its fatigue and thermal failure after temperature repeated changes, to confirm its thermal Stress PV modules generated under high humidity circumstance and capability of long-term resistance to moisture penetration. This test chamber is widely used in solar panels testing.

Main Technical Parameter

| | |
|--------------------------|---|
| Model | PV-04 |
| Internal dimension | 2300*700*1300 |
| External dimension | 2800*1500*1700 |
| Temperature range | -40℃~100℃ |
| Temperature fluctuation | ±0.5℃ |
| Temperature deviation | ±2℃ |
| Humidity range | 20%~98%R.H |
| Humidity deviation | +2、-3%R.H |
| Rise / Fall speed (℃) | 1 ~ 3.4 ℃/min (adjustable) |
| Exterior material | Steel Plate with protective coating |
| Interior material | SUS304 stainless steel |
| Insulation window | Double thermo stability silicone rubber sealing |
| Air circulation | Cold resistance and low noise centrifugal fan and motor |
| Safety protection system | Complete safety system |
| Power supply | AC 380V 50HZ; |
| Standard | IEC61215, IEC61730 |



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Standard and Test Method

Standard

IEC61215, IEC61730

Test Method

- A. 200 cycles from -40°C to + 85°C;
- B. 10 cycles from +85°C, 85% RH to -40°C;
- C. 1000h at 85°C, 85% RH;



Design and Construction

Test area of Chamber

Test area is made of stainless-steel.
Holder size will vary according to test panels.
The height of sample holder is adjustable. Max height is 2m, min height is 1m.
The deep of sample holder is 1 m.
Can place 4 pieces PV modules
Test hole is stainless steel with silicone plug, (Φ 50mm, Φ 125mm).



Test object

Size: 1m*1m or 1m*1.75 or 1m*2m

Cooling system

Cooling unit is French TECUMSEH compressor.
Environment friendly Refrigerant R404A & R23
Double-Stage refrigerating unit



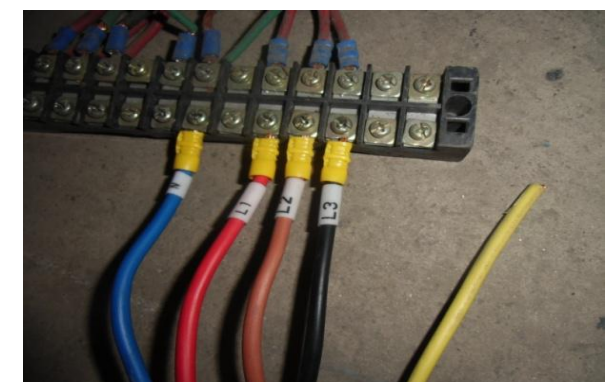
Humidification system

External isolation, stainless steel surface evaporation humidifier
Automatic water supply, Water purification system, Water saving



Safety protection

Humidifier dry-combustion protection
Independent over-temperature protection,
Water shortage protection
Over-current protection
Refrigerant high-pressure protection switch
Earth leakage protection



Power supply and Wiring

380V, 50 Hz 10% +/- three-phase-five-wire system



Package with Export Standard Wooden Box

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



Installation

Operation manual and video available for all test chambers.

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.

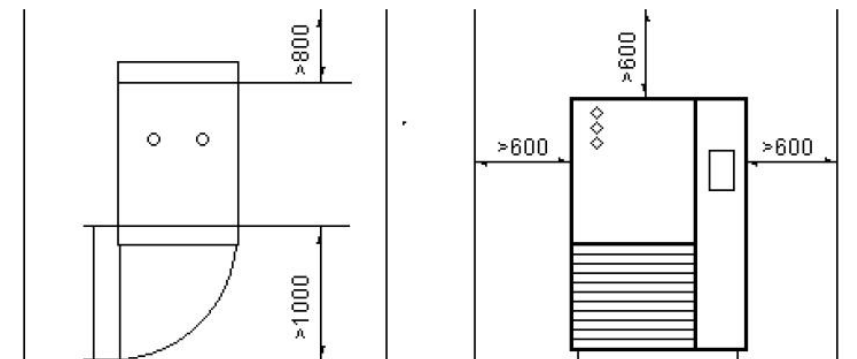
Training how to install and operate the machine.

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 machinery overseas to install and commissioning.

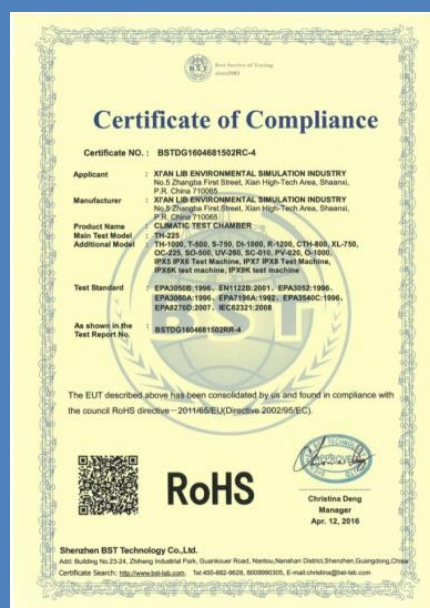


Xi'an LIB environmental simulation industry is a manufacture and exporter of climatic test chambers in China, and have over 8 years overseas market in test chambers to more than 25 countries.

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 test chambers**
- **Services, Maintenance & Calibration for all kinds of environmental chambers**
- **Provide test solutions**



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