



XI'AN LIB ENVIRONMENTAL SIMULATION INDUSTRY

Climatic Test Chamber Manufacturer and Supplier

3TS Thermal Shock Test Chamber (Pneumatic Damper Type)





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Specifications

3TS Thermal Shock Test Chamber (Pneumatic Damper Type)

Model		3TS-100	3TS-210	3TS -300	3TS -500
Internal dimensions(mm)		500*500*400	700*600*500	700*780*550	900*800*700
Overall dimensions(mm)		1150*1950*2100	1350*2100*2200	1350*2250*2300	2500*2250*2150
Sample Loads		10kg	15kg	25kg	35kg
Pre-heat room	Upper limit preheat temperature	+220°C			
	Heating time	Ambient temperature to ~ + 200°C, within in 30 minutes.			
Pre-cool room	Lower limit pre-cool temperature	-70°C			
	Cooling time	Ambient temperature to ~ -70°C, within in 30 minutes			
Test room	High temperature exposure range	Ambient temperature +20 to +200°C			
	Low temperature exposure range	-65 to -5°C			
Recovery time		Within 15 minutes			
Temperature fluctuation		≤±0.5°C			
Temperature deviation		≤±3°C			
Controller		Programmable color LCD touch screen controller			
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			
Standard configuration		2 pieces of stainless steel shelves, Φ 50 round cable port			
Power Supply		380V 50HZ			
Environmental conditional		5°C~+40 °C ≤85% RH			



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Design and Construction

- **Test Area**

Pneumatic damper type thermal shock chamber.
Pre-hot room, pre-cool room and test room configuration
2 pieces of adjustable and removable sample rack.



- **Air Circulation**

Cold air comes from left side of workroom after open pneumatic damper, hot air from right side.
Recovery time is within 15 minutes.

- **Build-In Air Compressor**

Build-in air compressor, to supply air source.
Adjust air pressure as request.



- **Cable Port**

Φ 50 round cable port at the left side of workroom, and seal with silicone screw plug.

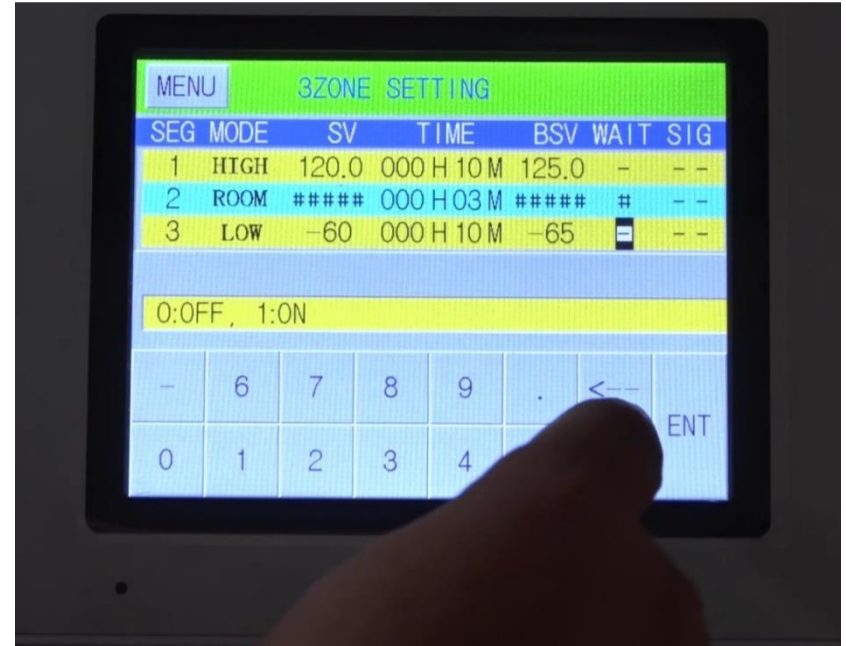


- **Cooling System**

Mechanical compression refrigeration system
Refrigerating unit is French TECUMSEH compressor.
Two cascade compressor
Environment friendly refrigerant R404a and R23.

- **Control Panel**

Programmable color display touch screen controller.
Programs reach to 999 groups and 999 sections
Ethernet
USB (option)



- **Large Viewing Window**

Interior lighting
Window coated with conducting film to protect it from frost.



- **Safety Protection**

Over temperature protection,
Refrigerant high pressure protection
Over current protection
Earth leakage protection

- **Power Supply and Wiring**

380V, 50 Hz 10% +/-



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Package with Export Standard Wooden Box

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



Installation

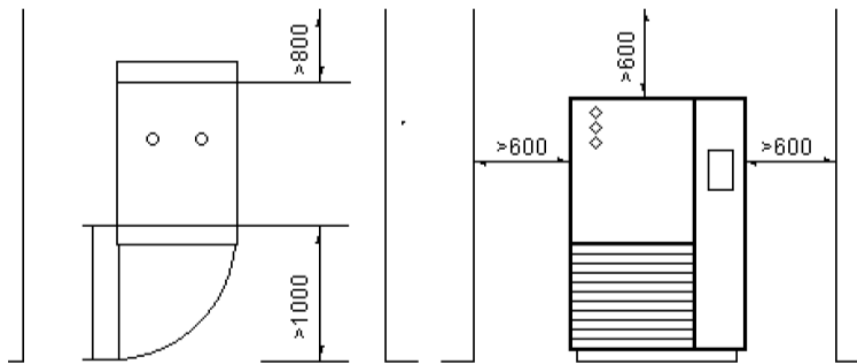
Operation manual and video available for installation & operation

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.



Warranty & Service

3 Years Warranty, Lifelong Follow-up Services.

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.

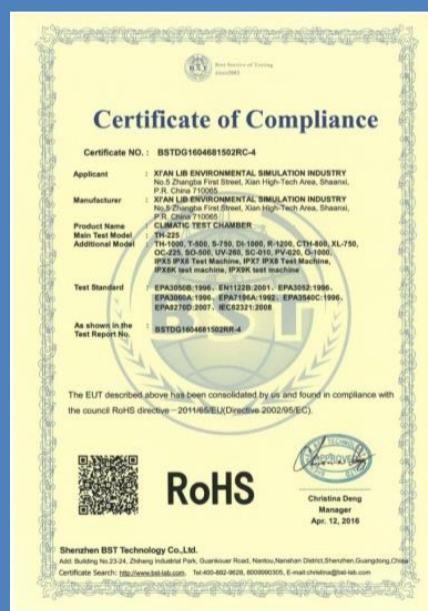
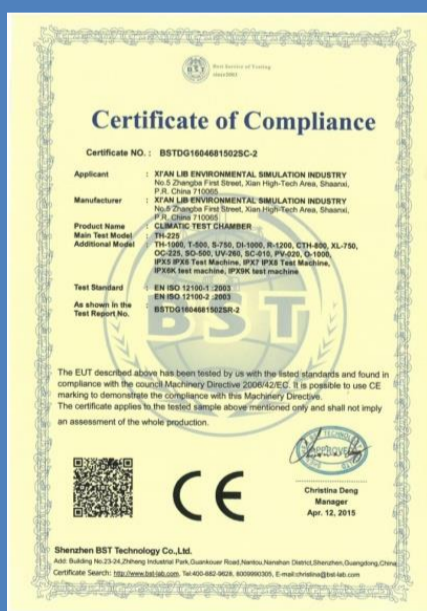
Engineers available to service machines overseas to install and commissioning.

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
- Provide test solutions



Xi'an 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