

Climatic Test Chamber Manufacturer and Supplier

Temperature & Humidity Test Chamber







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Standard Features

- Temperature control and display unit
- Humidity control and display unit
- French TECUMSEH compressor cooling unit
- Environment friendly refrigerant R404A & R23
- Humidification system with external isolation, stainless steel surface evaporation humidifier
- Heating element is Nichrome heater
- Circulation with low noise centrifugal wind fan
- Temperature sensor PT-100 , Resolution: ± 0.001 °C
- Humidity sensor dry and wet bulb sensor, Resolution: ± 1%
- Build- in water tank , 18Liter.
- Programmable color LCD touch screen controller
- Viewing window with interior lighting.
- Window size is 25*30cm.
- Test hole with silicone screw plug.
- 2 pieces of adjustable and removable mesh shelving.
- Bottom install 4 castors for ease moving, and with brakes function
- Ethernet 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
- Thermal insulation is Polyurethane foam
- Automatic water supply, water purification system
- Silicon seal for door
- Can perform long time 85 °C/85 % RH tests
- 220V, 50Hz/60Hz +/- 10% , single-phase





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Main Technical Parameter

Temperature & Humidity Test Chamber

Model	TH-100	TH-225	TH-500	TH-800	TH-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 ℃;					
Humidity range	20% ~ 98% RH					
Temperature fluctuations	± 0.5 °C					
Temperature deviation	± 2.0 ℃					
Humidity deviation	± 2.5% RH					
Heating rate	3 ℃ / min					
Cooling rate	1 ℃ / min					
Construction	Programmable color LCD touch screen controller					
Controller	Ethernet Link					
Temperature Sensor	PTR Platinum Resistance PT100Ω/MV A-class					
Humidity sensor	Dry and wet bulb sensor					
Heater	Nichrome heater					
Cooling system	Mechanical compression refrigeration system					
Refrigerating unit	French TECUMSEH compressor					
Refrigerant	R404A, R23					
Humidifier	External isolation, stainless steel surface evaporation humidifier					
Dehumidification system	Evaporator					
Air circulation	Centrifugal wind fan					
Water supply system	Automatic water supply; Water purification system					
Safety device	Humidifier dry-combustion protection; over-temperature protection; over-current protection; Refrigerant high-pressure protection; Water shortage 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	220V 50HZ	220V 50HZ	380V 50HZ	380V 50HZ	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, which is acid-proof and alkali proof, with high toughness features.
- Test hole sealed with silicone sealing plug.
- Temperature sensor and humidity sensor installed top right
- corner of test cabinet.
- Chamber with 2 stainless steel shelves, which can be adjustable.

Air Circulation

- 3 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.
- Forced air circulation in testing room to ensure the temperature uniformity

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

Humidification & Dehumidification System

- External isolation, stainless steel surface evaporation humidifier
- With water drainage valve at back side of chamber

Control Panel

- Controller panel is located on right side of test chamber.
- Programmable color display touch screen controller.
- Controller language is English (standard)
- Programs reach to 999 groups and 999 segments.













- Ethernet Link, PC Link with software, LAN network interface.
- Touch screen control panel with color LCD display

Large Viewing Window

- Interior lighting
- Window coated with conducting film to protect it from frost.
- Size is 250*300mm W*H.



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Safety Protection

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

Operation and Calibration

- Easy to operate, with view window for inspection samples.
- Easy to move and stop, with castors on bottom,
- Space saving, able to put on table.
- Calibration, commissioning, final inspection before shipping with 9 external temperature probes for calibration test.

Power Supply and Wiring

- 220V, 50 Hz 10% +/-
- single-phase





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

Warranty & Service

3 Years Warranty, Lifelong Follow-up Services.

After-Sales Service

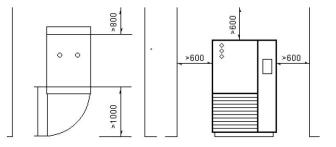
3 Years Warranty, Lifelong Follow-up Services.

Training how to install and operate the machine.

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.



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







CER	Certificate No. : BKC-180600813C	Certificate No. : BKC-180600814C	CSA Group	
RT	Certificate of Conformity	Certificate of Conformity	CSA FINDINGS LETTER	
IFICATE	Applicant : Xi'an LIB Environmental Simulation Industry No.5 Zhangba Fird Silvet, Xi'an Hgn-Tech Area, Shaanxi Province, PR.China 710085 Manufacturer : Xi'an LIB Environmental Simulation Industry No.5 Zhangba Fird Street, Xi'an Hgh-Tech Area, Shaanxi Province, PR.China 710065 Trademark : LIB Product : Temperature Humidity Test Chamber MN : TH-50	Applicant : Xi'an LIB Environmental Simulation Industry No.5 Zhangba First Street, Xi'an High-Tech Area, Shaanxi Province, P.R. China 710065 Manufacturer : Xi'an LIB Environmental Simulation Industry No.5 Zhangba First Street, Xi'an High-Tech Area, Shaanxi Province, P.R. China 710065 Trademark : LIB Product : Temperature Humidity Test Chamber	Project Number: 70099271 Date: 2016-09-20 Attention: 將務將 13706723334 五7 = 11B Fortrommental Simulation Industry 高安成产电子存挂有限会词 轮散先点 X1 on LIB Environmental Simulation Industry Subject: Dust test chamber, Model Di-1500, rated 240 Vac 60 Hz 1 PH 16 A, 2 units	
OF CO	ANN 114-500, TH-500, TH-500, TH-800, TH-806, TH-806, TH-100A, TH-1000, TH-100C, TH-225A, TH-225B, TH-225C, TH-500A, TH-500B, TH-500C, TH-800D, TH-800B, TH-800C, TH-800A, TH-1000B, TH-1000C, T-50A, T-50B, T-50C, T-80A, T-80B, T-80C, T-100A, T-100B, T-100C, T-25C, T-25B, T-25C, T-25C, T-100A, T-100B, T-100C, T-25C, T-25B, T-25C, T-25C, T-100C Test Standard : EN ISO 12100:2010 EN 60204-1:2008+A1:2009+AC:2010	Introduction Introduction Introduction Introduction	移先生介旨: We have completed the initial evaluation required to determine whether the products you have submit for CSA Special Impection comply with the requirements of the standards listed below. This Finding provides the results of the evaluation. RCUT用(DIP)=ABR T&B/B/FIGS-0. 以下展現(FGD)/DIR. This Application for Confidence will remain starts for a special of 2D days allowing you the time at proper your response. Should you experience any difficults, or if any assistance or additional time we encourage you to constant the wirker. We will be plaused by participate in any discussionism or meetin enable as to complete this certification for you in as short a time as possible.	
NFO	The certificate of conformity is based on an evaluation of a sample of the above mentioned products. It does not imply an assessment of the whole production. It is possible to use CE marking to demonstrate the compliance with this ND Directive 2006/42/EC and LVD Directive 2014/35/EU. It is only valid in connection with the test report number: RKC-1080000138.	The EUT described above has been consolidated by us and found in compliance with the council RHS directive 2011/65/EU. It is possible to ouse CE marking to demonstrate the compliance with this RoHS Directive. It is only valid in connection with the test report number: BKC-180600514R.	Fed free to make use of our facimitie services, e-mail, or any available courter services so that we need to be a service of the service so that we need to be a service of the service service so that we need to be a service of the service	
ORMI'	CE 🗱 💮	RoHS RoHS	CSA C222 No. 0-10 - Comardian Electricial Cick, Part II Control Requirements - CSA C22 No. 0-40 - Boending of Electricial Equipment CSA C22 No. 0-413 - Industrial Control Equipment *No a patient *CANCESA C22 No. 61010-1-04 - Electricial Equipment for Measurement, Control, and Laboratory UsePart 1: General Requirements	
TY	Shenzhen BKC Testing Co., Ltd. 6/F, Building 3, Zhouteng Industriai Park, Nanvan Street, Longgang District, Shenzhen, Guangdong, China. Tel:4000-875-382. 0755-32025341 E-mail: bikc@bikc-lab.com Certificate Search: http://www.bic-lab.com	Shenzhen BKC Testing Co., Ltd. 8/F. Building 3, Zhouteng Industrial Park, Narwarn Street, Longgang District, Shenzhen, Guangdong, China. Tex14000-875-320753-32925341 E-mail: bick@bkc-lab.com Certificate Search: http://www.bkc-lab.com		

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