

HAST Test Chamber

Technical Solution



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Product description

I Chamber picture



II Product description

This equipment is mainly used to test the performance of products during storage, transportation and use under high temperature, high temperature, high humidity and pressure climate conditions. It is mainly used to test the physical and other related properties of electrical and electronic products, components, parts, metal materials and their materials under simulated high temperature, high temperature, high humidity and pressure climate conditions. After the test, it is determined by verification whether the performance of the product can meet the requirements, so as to provide products for design, improvement, verification and factory inspection. Sealing performance detection, related products for accelerated life test.

III Product Structure

The HAST high temperature and high pressure accelerated aging test box is vertical in structure. The inner box of the test box is made of SUS304 grained stainless steel plate, and the outer box is made of steel plate with baking varnish, which is beautiful and generous. The temperature controller is a Japanese Fuji digital display controller, PT100 sensor, pointer pressure gauge, and built-in water tank. The equipment has protection devices such as over-temperature, lack of phase, lack of water, pressure, and empty heating tube burning.

IV Test standards

GB/T10586-1989 Technical conditions for humidity and heat test chamber;
 GB2423.3-93 (IEC68-2-3) Constant humidity and heat test;
 MIL-STD810D method 502.2;
 GJB150.9-8 Temperature and humidity test;
 GB2423.34-86, MIL-STD883C method 1004.2 Temperature, humidity and high pressure combined cycle test;
 GB2423-2-1-89\GB2423-3-2-89\GB2423-3-89 High temperature, high pressure and high humidity aging box execution and compliance standards.

V Specification

Model	BT-PCT-35
Internal size	350*450mm (Φ*D)
External size	1150*1700*1100mm (W*H*D)
Temperature range	+100°C ~ +135°C Free setting (Saturated steam temperature)
Humidity range	100%RH Saturated steam humidity
Circulation method	Natural convection circulation of water vapor
Internal material	Stainless steel #SUS304
External material	Brushed stainless steel
Time Range	0 ~ 999H / M / S (Optional ; Free setting)

Pressure time	0.00 Kg~2.00 Kg/cm ² about 45 minutes
Temperature fluctuation	±0.5℃
Temperature uniformity	±1℃
Test time	0~999h (adjustable)
Pressure range	0~3kg/cm ²
Test method	Steaming and boiling

Automatic heating, automatic pressuring, Temperature and pressure reach the set value, the device will automatically timing

Special requirements can also be customized according to customer requirements.

VI Control system

- Programmable Korean TIMI880 touch screen automatically calculates and controls the saturated steam temperature;
- Automatic water level controller, provides warning when the water level is insufficient;
- German patented ultra-small high-temperature resistant oil-free vacuum pump;
- Uses pointer to display positive and negative pressure gauges;
- Time controller uses programmable Korean TIMI880 touch screen;
- Fully automatic process control, simple operation.

VII Mechanical structure

- Round inner box, stainless steel round test inner box structure, meets industrial safety container standards, can prevent condensation and dripping during the test;
- Automatic access control, round door automatic temperature and pressure detection safety access control lock control ;
- Patented safety door handle design, when the pressure in the box is greater than normal pressure, the tester will be protected by reverse pressure;
- Patented packing, when the pressure in the box is greater, the packing will have reverse pressure, which will make it more tightly combined with the box body, which is completely different from the traditional extrusion type and can extend the life of the packing;
- Circular lining, stainless steel circular lining design, can avoid direct impact of steam latent heat on the test product;
- Precision design, good air tightness, low water consumption, each time water is added, it can be used continuously for about 200 hours;
- The vacuum action before the experiment starts can extract the original air in the box and inhale the new air filtered by the filter core (partial<1 micorn). To ensure the purity of the box;
- Critical point LIMIT mode automatic safety protection, abnormal cause and fault indicator light display.

VIII Equipment installation site and operating conditions

1. Site requirements

a. Ground level, good ventilation, free of flammable, explosive, corrosive gases and dust;

It's better to have air conditioning.

b. There is no strong electromagnetic radiation

source nearby;

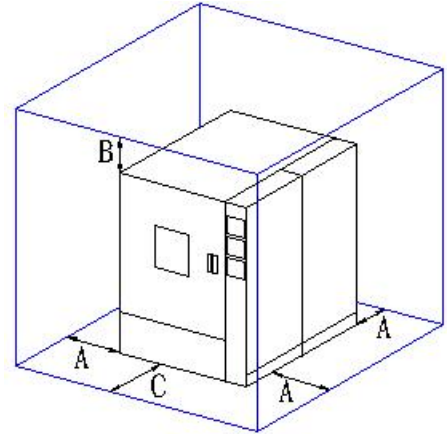
c. There are floor drains (condensate water)

near the equipment;

d. Ground bearing capacity: not less than 500kg/m²;

e. Proper maintenance space around the equipment (see figure)

A: $\geq 60\text{cm}$ B: $\geq 60\text{cm}$ C: $\geq 100\text{cm}$ D: $\geq 60\text{cm}$



Factory real pictures display

1. Certificate

ISO certificate



Some patents (nearly 100) and certificates



Some patents (nearly 100) and certificates



2. Shanghai Office :



3. Factory environment area



Work shop



Our team

4. Spot exhibition hall area \ finished product area



5. BOTO GROUP Factory located in Hunan Yueyang Industrial Park.

The industrial park is constructed by Shanghai Boyi Test Equipment Co., LTD with a total investment of RMB 400 million. Mainly engaged in the research and development and manufacturing of the whole chain of laboratory equipment; It is located next to Yueyang section of Wuhan-Guangzhou high-speed railway, adjacent to Lotus Airport, and has very convenient transportation. The industrial park covers an area of 40 mu, consisting of a comprehensive office building and two standard factories, with a total construction area of nearly 20,000 square meters



Showroom 1



Showroom 2



6. On December 23, 2021, Li Aiwu, deputy Secretary of CPC Committee and Mayor of Yueyang city, Hunan Province, led the participants of Yueyang City industrial project construction mobile site meeting to inspect our company and observe the construction of industrial projects.



7. After the industrial park is fully put into operation, it can meet the annual output of new energy 3C semiconductor electronic circuit optical communication industry laboratory testing room environment simulation box 1200 sets; Another company has an independent sheet metal production and processing center, can independently undertake manufacturing business.



8. Standard size machine

225L High and Low Temperature Humidity
and Heat Alternating Test Chamber



225L

20 L constant temperature
and humidity test chamber

Overlapping Temperature and humidity chamber



B-TH-432



Thermalshock test chamber

Double layer constant temperature test chamber

Salt spray test chamber



**150L Vertical high and low
temperature test chamber**



Ventilation type aging test chamber



**Leaning tower ultraviolet aging
test chamber**

9 .Large non-standard real pictures display area



**3.6 m3 constant temperature
laboratory**



**9 cubic meters low temperature room,
13 cubic meters high temperature room**



**Three comprehensive and humidity
test chamber**



10. Shipment



Self-produced and sold No dealer link



Save you 30%



Quality and after-sales are recognized by customers

