BOTO GROUP

Salt Spray Test Cabinet

Technical Solution

BOTO GROUP Co., Ltd.

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Jiading District, Shanghai, China
Website: https://www.botomachine.com

Technical Regulations and Direction

（1） Equipment name: climate temperature and humidity combined salt spray test chamber

Model: B-SST

ISO 9227-2017、 DIN50021、ISO1456-74、ISO3768-78、ASTM B117-73 GB/T2423.17-2008、GB/T2423.18-2008、GB/T31467.3、SAEJ2334-2016、 GB/T10587-2006、GJB150.11-1986、GJB150.9-1986、GB/T10125-1997、GB/T5170.8-1996、 JIS And other test Methods designed and manufactured

（2）Equipment performance parameters

Studio temperature range: RT+10℃ ~ +50℃
Saturation temperature range: RT+10℃ ~ +60℃
Temperature fluctuation: ≤±0.5℃
Temperature uniformity: ≤±2℃
Air pressure: 0.2 ~ 0.4mpa
Spray pressure: 0.05 ~ 0.17Mpa/cm2
Salt spray deposition: 1 ~ 2mL/80cm2.h
The period time ranges from 0 H to 99 H and M
Time range: 0 to 9999 H、M

（3） Product structure

1、Size：

Type	B-SST-60	B-SST-90	B-SST-120	B-SST-160	B-SST-200
Internal size (H * W * D) mm	600×450×400	900×600×500	1200×1000×500	1600×1000×600	2000×1000×600
External size (H * W * D) mm	1100×670×1060	1430×860×1170	1880×1170×1400	2280×1170×1500	2700×1170×1500
Internal Volume	108L	270L	600L	960L	1200L
Installed Power	2 KW	2 KW	3.2 KW	3.2 KW	4.5 KW
Weight(about) KG	50	80	230	270	350

2、Spray way：

Pneumatic, continuous and intermittent spray can be adjusted at random

Sample shelf：15℃、30℃ The sample stand can meet the inclination test of 15℃ and 30℃

3、Test method： Neutral salt spray test (NSS test), salt spray test (SS test), salt spray, drying, humidity and other salt spray test methods

4、Test chamber body material：

1. box and tank are imported PPR high strength corrosion resistant plastic board, the surface is smooth and smooth, and aging resistance, corrosion resistance; Easy to clean, no leakage;
2. the box cover adopts imported PPR transparent plastic plate, easy to observe the test sample test condition, the box cover and box with water seal, so as to prevent salt spray leakage, the box cover open for cylinder starting support defending, open and close easily;
3. Large salt water tank design, to prevent the interruption of the test due to the lack of salt water;
4. heating for tank type heating and humidification, heating fast, uniform distribution of temperature and humidity;
5. plastic structure salt spray test box can meet the long-term strong acid, strong salt spray test without any damage

5 Heating system：

1.The test temperature in the box is water jacket heating and humidification. The heater is made of U-shaped titanium alloy high-speed heating electric heat pipe.
completely independent system, does not affect the salt spray test and control circuit;
3. temperature control output power is calculated by microcomputer to achieve high precision and high efficiency of electricity efficiency, low water level protection (prevent dry burning without water)

6 Spray system：

1. The spray adopts tower-type sprayer (the height of the spire can be adjusted), and four spray towers are placed in the box. Two salt spray towers and two water spray towers are crossed respectively.
2. spray gas for two-stage pressure regulation, oil filtration, gas humidification preheating;
3. Atomized brine storage is built-in hidden type and storage capacity is large, brine is equipped with preheating function;
4. Quartz brine filter element is equipped before brine atomization to avoid the plug of impurities in the nozzle and stop the test;
5. All pipes in the test chamber are thickened fluorosilicone rubber pipes, which can be kept without aging and cracking in ten years.
6, salt water tank with high and low water level display;

7. Environmental conditions :
Temperature: 22-8 ℃
Relative humidity: ≤ 85%RH
Air pressure: 86 ~ 106kpa

8 .Place:

Place flat ground, no corrosive gas around, less dust, preferably with air conditioning.
No strong vibration, no strong electromagnetic interference, no high concentration of dust and corrosive substances, no direct sunlight or other heat source radiation, good ventilation, no flammable, explosive, corrosive gas or dust.
Floor drain is provided near the equipment: defrosting wastewater used in the experiment shall be removed.
The ground bearing capacity of the site is not less than 300 kg/m2.
Appropriate maintenance space should be left around the equipment (as shown in the following figure).
Left: 60 cm or more right: 60 cm or more
Up :≥60cm front :≥100cm behind :≥60cm

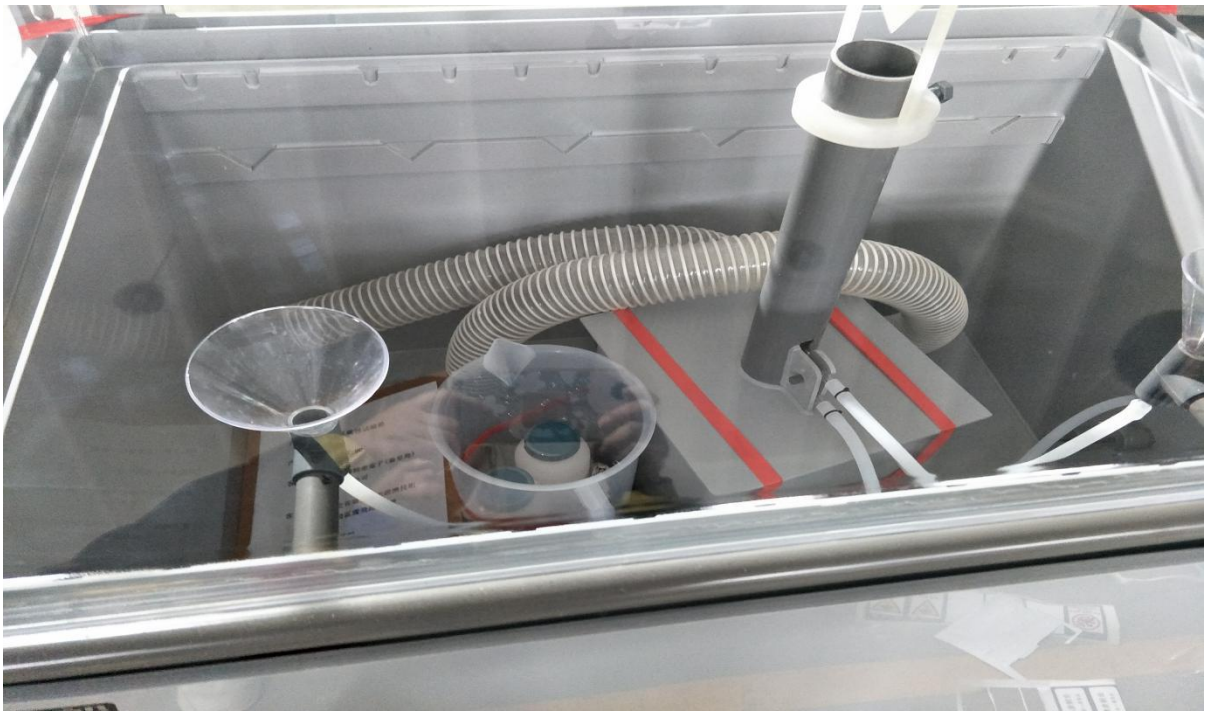
9.Humidification water:

Softened water or fully deionized water (optional multistage water filter, additional quotation required)
Humidification water: softened water or fully deionized water, water pressure 0.2~0.7MPa
Optional: multi-stage water filter (the water inlet is installed within 2M of the machine, and the water pressure is 0.2~0.7mpa)

10.Air source

Compressed air source: 5 Kgf/ C ㎡ above

11. Power supply
AC220V Phase line (red line) also can customs made + Neutral line (blue line) + PGND line (yellow and white line) Allowable voltage fluctuation range: 220V (1±10%) also can customs made Frequency allowable fluctuation range: 50Hz (1±1%) The grounding resistance of the PGND cable must be less than 4 OHms. The user is required to configure the corresponding capacity of air or power switch for the equipment at the installation site, and the switch must be independent and specialized for the use of the equipment.
(12) Installed reserved power
Refer to 1.5 times of the device power
（13）Storage environment requirements
When the device is not working, keep the ambient temperature within the range of +5 to 40. When the ambient temperature is lower than 0, drain the remaining water from the device to prevent water from freezing and damaging the pipes
Photos



Inner carton photo

Factory real pictures display

1.Certificate

ISO certificate

注册号：00921Q11072R0S

长城（天津）质量保证中心有限公司

质量管理体系认证证书

兹证明 上海柏毅试验设备有限公司

住于 注册地址：上海市嘉定区安亭镇杨木桥支路8号6幢A区

邮编 201804

办公/服务地址：上海市嘉定区曹安公路5616号财富广场2304室

邮编 201805

其质量管理体系符合 GB/T19001-2016/ISO9001:2015 标准

该质量管理体系认证范围

温度试验设备、检测试验设备的销售。

颁证日期 2021年6月18日 有效期至 2024年6月17日

长城（天津）质量保证中心有限公司 总经理

IAF CNAS 中国认可 国际互认 管理体系 MANAGEMENT SYSTEM CNAS C009-M

Registration No.: 00921Q11072R0S

CHINA GREAT WALL (TIANJIN)
QUALITY ASSURANCE CENTRE CO., LTD
QUALITY MANAGEMENT SYSTEM CERTIFICATE

We hereby certify that
Shanghai BoYi Test Equipment Co. Ltd.
(Unified social credit code:91310114561898455S)
Registered address is located at: Area A, Building 6, No. 8, Yangmuqiao Branch Road, Anting Town, Jiading District, Shanghai. Post Code: 201804
Office/Service address is located at: Room 2304, Fortune Plaza, No.5616 Caoan Highway, Jiading District, Shanghai. Post Code: 201805
Its quality management system meets the requirements of the GB/T19001-2016/ISO9001:2015 Standard.
The quality management system applies in the following areas:
Sales Of Temperature Test Equipment, Testing Test Equipment.
Date of Issuance: Jun. 18th, 2021 Date of Expiry: Jun. 17th, 2024

General Manager

IAF CNAS 中国认可 国际互认 管理体系 MANAGEMENT SYSTEM CNAS C009-M

Some patents (nearly 100) and certificates

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Hot & Cold test chamber

- 2017 Annual News Stone Hero List Quality Award

China Printed Circuit Industry Association

Joint Laboratory of Power Battery Safety Testing

Shanghai BOYI & Beijing Jiaotong University

China quality club enterprise member

2.Shanghai Office :

3.Factory environment area

Work shop

Our team

4.Spot exhibition hall area\finished product area

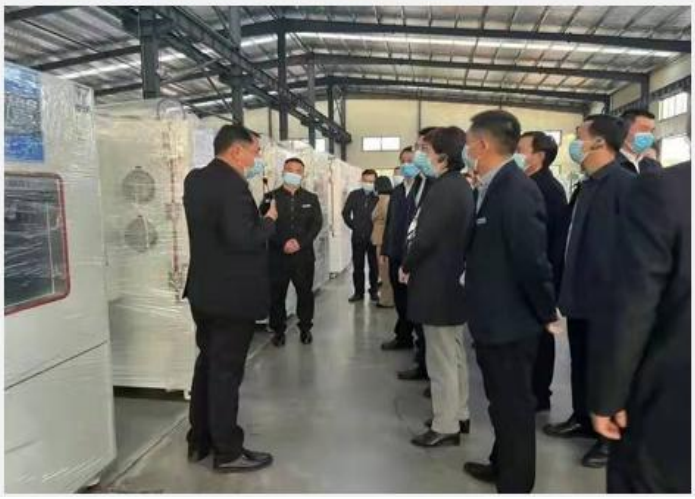
5.BOTO GORUP Factory located in Hunan Yueyang Industrial Park.

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

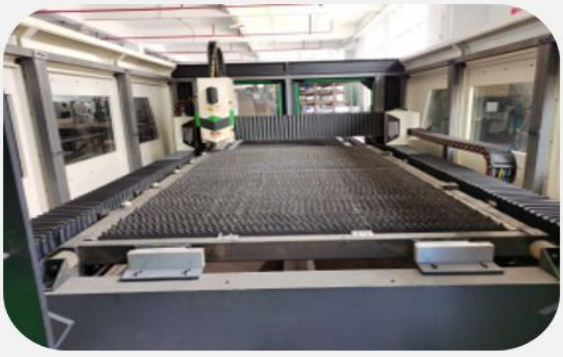
Showroom 1

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

20 L constant temperature and humidity test chamber

Overlapping Temperature and humidity chamber

Thermalshock test chamber

Double layer constant temperature test chamber

Salt spray test chamber

150LVertical 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 humidity laboratory

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

Three comprehensive and test chamber

10.Shipment

Self-produced and sold **No dealer link** **Save you 30%** **Quality and after-sales are recognized by customers**