

**GAAT** 赛准科技

Environmental simulation &  
reliability test equipment manufacturer

Expertise | Quality | Service | Innovation



# Dongguan Saizhun Technology Equipment Co., Ltd

Leading Manufacturer of Environmental Simulation & Reliability Testing Instruments

## *Company Profile*

Dongguan Saizhun Technology Equipment Co., Ltd with our own trademark GAAT (stands for Guangdong Accelerated Ageing Technology), is a holding subsidiary of Zhongzhi Testing Instruments Group – China's top 5 largest manufacturer of environmental and reliability testing instruments.

With 17 years of history in thermal processing & environmental testing, GAAT has been dedicated to design, manufacturing and marketing of lab ovens, burn in ovens, thermal shock chambers, temperature and humidity climatic chambers, temperature cycle chamber, HAST and PCT chambers etc. Our equipment is widely used in thermal processing for industrial manufacturing as well as in the environmental & reliability testing fields.

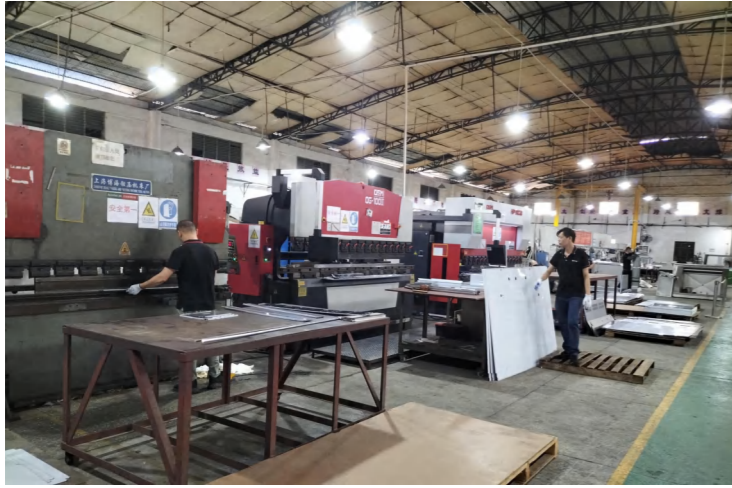
Our products mainly cater for semiconductor, electronics, automobile and aerospace sectors. We aim to be your professional and reliable partner in thermal processing and environmental testing area!





# GAAT 赛准科技

With 17-year business operation in the testing field, we do designing, metal sheeting, laser cutting, bending, welding, assembling, commissioning and testing all in house, to ensure the best quality and lead time.



## Our Customers

### Automobile & Transport:



### Consumer Electronics:



### Semiconductors:



### Testing & Certification Institutes:



## *Our product portfolio*

### **Major Products**

1. Programmable Drying Oven
2. Climate Chamber (Temperature & Humidity)
3. Fast Rate Temperature Cycle Test Chamber
4. Thermal Shock Chamber
5. HAST / PCT Chamber
6. Burn-in Oven
7. Vacuum Oven / Clean Oven
8. Walk-in / Drive-in Test Chamber

### **Other Testing Equipment**

1. Salt Spray Chamber
2. UV Test Chamber
3. SO<sub>2</sub> Test Chamber
4. AGREE Chamber
5. Rain Test Chamber
6. Dust Test Chamber
7. Tensile Tester
8. Vibration Tester



## Programmable Drying Oven



### Stable and Safe

Temperature range     $\sim 200^{\circ}\text{C} \sim 300^{\circ}\text{C} \sim 400^{\circ}\text{C} \sim 500^{\circ}\text{C} \sim 600^{\circ}\text{C}$

Heating time             $\text{RT}+10^{\circ}\text{C} \sim 200^{\circ}\text{C} \leq 25\text{min}$   
 $\text{RT}+10^{\circ}\text{C} \sim 500^{\circ}\text{C} \leq 50\text{min}$

Heating mode            PID + S.S.R.

Deviation                 $\pm 2.0^{\circ}\text{C}$

Fluctuation               $\pm 0.5^{\circ}\text{C}$

Uniformity                $\leq 2^{\circ}\text{C}$

Inner Size                40L, 72L, 270L, 1000L, etc

Optional function         $\text{N}_2$  injection,  $\text{O}_2$  analyzer, video recorder etc

### Energy Saving

Patented technologies to save energy and reduce electricity consumption during usage.

### Applicable Standards

IEC 60068-3-5: 2018	IEC 60068-3-6: 2018
IEC 60068-2-1: 2007	IEC 60068-2-2: 2007
IEC 60068-2-14: 2009	GB/T 11158: 2008
GB/T 2423.2: 2008	GB/T 30435: 2013

## Climate Chamber



### Stable and Safe

**Materials** High quality cold-rolled steel paint with SUS304# stainless steel inner box

**Compressor** Tecumseh (France) or Bitzer (Germany)

**Energy Saving** Patented technologies to save energy and reduce electricity consumption during usage.

**Applicable standards**

IEC 60068-3-5: 2018	IEC 60068-3-6: 2018
IEC 60068-2-1: 2007	IEC 60068-2-2: 2007
IEC 60068-2-14: 2009	IEC 60068-2-30: 2005
IEC 60068-2-78: 2012	GB 2423.1: 2008
GB 2423.22: 2008	GB/T 10586: 2006
GB/T 10589: 2008	GJB 150.3A: 2009
GJB 150.9A: 2009	

**Inner Size** 36L, 80L, 150L, 225L, 408L, 1000L, etc

**Temperature/humidity range** -70°C ~ +150°C / 5% ~ 98% R.H.

**Resolution/ uniformity** 0.01°C, 0.1% R.H. / ±1.0°C, ±3.0% R.H.

**Deviation/ fluctuation** ±2.0°C, ±3.0% R.H. / ±0.3°C, ±2.0% R.H.

**Heating/cooling rate** Avg. ≥3.5°C/min (heating), ≥1°C/min (cooling)

## Thermal Shock Chamber



### Stable and Safe

Materials High quality cold-rolled steel paint with SUS304# stainless steel inner box

Compressor Bitzer (Germany)

Energy Saving Patented technologies to save energy and reduce electricity consumption during usage.

Applicable Standards IEC 60068-2-1: 2007 IEC 60068-2-2: 2007  
IEC 60068-2-14: 2009 EIAJ ED-2531B: 2004  
JASO D 014-4: 2014 MIL-STD-883H: 2010  
MIL-STD-202G: 2002 GB/T 2423.1: 2008  
GB/T 2423.2: 2008 GB/T 2423.22: 2012

Inner Size 42L, 80L, 150L, 200L, 252L, 450L, etc

Cabinet type Elevator type and damper type

Temperature shock range  $-65^{\circ}\text{C} \sim +150^{\circ}\text{C}$

Resolution/ uniformity  $0.01^{\circ}\text{C} / \leq 2.5^{\circ}\text{C}$

Deviation/ fluctuation  $\pm 2.0^{\circ}\text{C} / \pm 1.0^{\circ}\text{C}$

Shocking time within 10 sec



## Burn in Oven



### Stable, Reliable and Highly Customizable

Temperature range	RT~200°C
Heating time	RT+10°C~200°C ≤25min
Heating mode	PID + S.S.R.
Deviation	±2.0°C
Fluctuation	±0.5°C
Uniformity	≤2°C
Inner Size	Customizable slots 12/24/48/72/78 etc
Reliability	Full range of sensors equipped (airflow meter, air pressure differential sensor, interlock sensor, AC current detector, voltage monitor etc)
<b>Energy Saving</b>	Patented technologies to save energy and reduce electricity consumption during usage.
<b>Applicable Standards</b>	IEC 60068-3-5: 2018      IEC 60068-3-6: 2018 IEC 60068-2-1: 2007      IEC 60068-2-2: 2007 IEC 60068-2-14: 2009    GB/T 11158: 2008 GB/T 2423.2: 2008      GB/T 30435: 2013

## HAST Chamber



### Stable and Safe

Materials High quality cold-rolled steel paint 1.2mm with SUS316# stainless steel inner box 4mm

Technics Exclusive refined welding and paint baking

**Applicable standards** JESD22-A102E-2015 JESD22-A110E.01-2021  
JESD22-A118B.01-2021 IEC60068-2-66:1994  
IEC60749-4:2017 GB/T 4937.4-2012  
GB/T 2423.40-2013

Inner Size  $\phi 420 \times 500$  (mm) (Dia  $\times$  Depth)

Temperature/humidity range  $105^{\circ}\text{C} \sim +150^{\circ}\text{C} / 65\% \sim 100\% \text{ R.H.}$

Temp fluctuation  $\pm 0.5^{\circ}\text{C}$

Temperature/humidity uniformity  $\pm 1.0^{\circ}\text{C}, \pm 3.0\% \text{ R.H.}$

Pressure range  $0 \sim 0.4 \text{ Mpa} (0 \sim 4 \text{ kgf/cm}^2)$

Heating rate RT to  $120^{\circ}\text{C} < 80 \text{ min. (80\% RH)}$

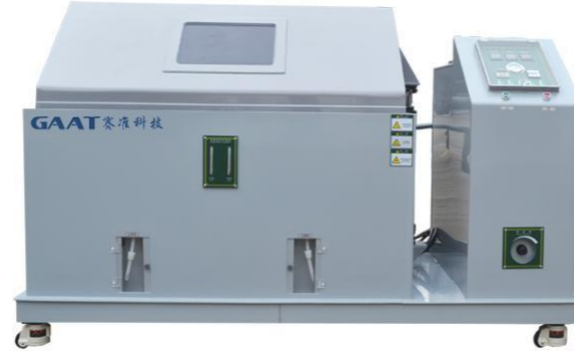
**Double-container structure** Adopts double-container structural design, the test chamber and the steam generator chamber are independent from each other.

***Customized Walk-In / Drive-In Test Chambers***





Temperature Cycle Chamber



Salt Spray Chamber



UV Chamber



AGREE Chamber



Rain Chamber



Pressure Cooker Test Chamber



SO<sub>2</sub> Test Chamber



Tensile Tester



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