

Combined Test Chamber



Introduction

Combined test chamber is the multi-functions test chambers, the functions include temperature, humidity, user can match suitable vibration system.

Vibration system type includes vertical vibration system and horizontal sliding table.

We can design the non-standard combined test chambers according to the customer's requirements.

Using Areas

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|------------------------|-------------------------|
| ➤ Aerospace fields | ➤ Aviation fields |
| ➤ Medical institutions | ➤ Research institutions |
| ➤ Military fields | ➤ Others |

The advantages of TCT Combined Test Chamber

- Its compatibility is better, users can choose more types vibration system.
- Higher test precisions of temperature and humidity
- Humanized observation window with light
- Using more famous components, the performance is better
- 1 year warranty period for machine + 3 years free providing for spare parts.

Production Standards	
➤	GB/T2423.1-2001 GB/T2423.3-1993 GB/T2423.2-2001.
➤	IEC60068-3-5, IEC60068-2-03, MIL-STD-810F, MIL-STD-883C, JIS-C60068
➤	JESD22-A101-B-2004, JESD22-A103-C-2004, JESD-A119-C-2004

Common Specifications		
Internal materials	SUS304 stainless steel	
External materials	High quality cold rolled steel sheet	
Temperature fluctuation	±0.5℃	
Temperature uniformity	±2.0℃	
Heating rate	2.0~3.0℃ / min (no-load)	
Cooling rate	1.0~2.0℃ / min (no-load)	
Humidity fluctuation	±2.0%RH	
Humidity uniformity	±2.0%RH	
Vibration Tester types	Vertical or Horizontal vibration tester	
Kinetic Bottom Plate	Located at the bottom of working room	
Observation window	Non-condensation observation window with light	
Test hole	Stainless steel test hole, 1 set × 50mm diameter	
Test shelf	Stainless steel test shelf, 2 pieces (height-adjustable)	
Sealing material	Silicon rubber sealing ring	
Heat insulating material	PU FOAM + Glass fiber cotton	
Air supply system	Fan	Axial flow fan + centrifugal fan
	Circulation mode	Forced air circulation
Refrigeration system	Compressor	Hermetic or Semi-Hermetic compressor
	Refrigerant	R404A/R23
	Evaporator	Warped type evaporator
	Heat exchanger	BPHE
	Refrigerator oil	3GS/32H
	Cooling way	Air cooling way or Water cooling way
Control system	Controller	PLC touch screen controller
	Running mode	Fix and Program running
	Program capacity	100 groups
	Section capacity	120 sections / group
	Sensor	PT100
Safety function	Over-temperature protection	
	Electric leakage protection	
	Power phase protection	
	Over-current protection	
	Fuse protection	
	Over-pressure protection for compressor	

	Over-heating protection for compressor	
	Over-current protection for compressor	
	Water shortage protection	
	Ground protection	
Using environment	Temperature	≤+30℃
	Humidity	≤85% RH
	Atmosphere	86 ~ 106 kPa
Noise	≤65 dB	
Water source standard	Purified water	
Power supply standard	120V/220V/240V/380V/415V, 50Hz/60Hz, Single or three phases	

 Standard Model			
Model	Working room size(W×D×H)	Temperature Range	Humidity Range
ZH-001	800×700×900mm (504 Liters)	-70 ~ +180℃	20% ~ 98% R.H
ZH-002	800×1000×1000mm (800 Liters)		
ZH-003	1000×1000×1000mm (1000 Liters)		
If you have the more requirements, please contact us!			