Environmental Str Screening Test Chamber



Introduction

ESS is used for flexibility testing of specimens with high heating and cooling rate.

TCT ESS heating and cooling rate are 10°C/min and 15°C /min.

The cooling way of ESS is water cooling way.

45	Using Areas		
7	Electronic products testing	Military products testing	
>	Medical institutions	Research institutions	
2	Metal materials testing	> Others	

The advantages of TCT Temperature test chamber

- Reasonable structure, higher efficient heat exchange, cooling rate is fast
- Using more famous components, the performance is better
- PLC program touch screen controller, easy to operate
- Users can realize remote controlling with RS232 communication port
- I 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

Internal materials	SUS304 stainless ste	el (1.2mm thickness)		
External materials	High quality cold rolled steel sheet (1.5mm thickness)			
Temperature Range	-70°C ~+180°C			
Temperature fluctuation	±0.5℃			
Temperature uniformity	±2.0℃			
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)			
Movement wheel	4 sets movement wheels (fixation function)			
Sealing material	Silicon rubber sealing ring			
Heat insulating material	PU FOAM + Glass fiber cotton			
Air supply system	Fan	Axial flow fan + centrifugal fan		
An anthra statem	Circulation mode	Forced air circulation		
	Compressor	Semi-Hermetic compressor		
	Refrigerant	R404A		
0-6	Evaporator	Warped type evaporator		
Refrigeration system	Heat exchanger	BPHE		
	Refrigerator oil	3GS/32H		
	Cooling way	Water cooling way		
	Controller	PLC touch screen controller		
	Running mode	Fix and Program running		
Control system	Program capacity	100 groups		
control system	Section capacity	120 sections / group		
	Sensor	PT100		
	Connect Port	RS232 communication port		
	Over-temperature protection			
	Electric leakage protection			
	Power phase protection			
fatu function	Over-current protection			
	Fuse protection			
Safety function	Over-pressure protection for compressor			
	Over-heating protection for compressor			
	Over-current protection for compressor			
	Water shortage protection			
	Ground protection			
Noise	≤65 dB			

Model	Working room size(W×D×H)	Temperature Range	Heating/Cooling Rate
ESS-100E	450×450×500mm (101.2 Liters)	-70~+180°C	10°C/min
ESS-225E	500×600×750mm (225 Liters)		
ESS-500E	800×700×900mm (504 Liters)		
ESS-100F	450×450×500mm (101.2 Liters)		15°C/min
ESS-225F	500×600×750mm (225 Liters)	-70 ~ +180°C	
ESS-500F	800×700×900mm (504 Liters)		