

Thermal Shock Test Chamber (2 boxes)



Introduction

This type is used for testing chemical change or physical change of specimens in expansion and contraction environments.

This type is 2 boxes type, one box is heating box, the other box is cooling box, the specimen is moved by hanging basket in them.

This type is used with water cooling way. The refrigeration system include double semi-hermetic compressor, the cooling efficiency is higher.

Using Areas

➤ Metal products testing	➤ Plastic products testing
➤ Rubber products testing	➤ Electronics products testing
➤ Physic materials testing	➤ Others

The advantages of TCT Thermal Shock Test Chamber (2 boxes)

➤ 7.0 inch color PLC controller, its functions are more powerful
➤ Movement speed of basket is faster, loading is larger
➤ Double observation windows is convenient for users to operate
➤ Imported famous components assure the higher quality
➤ 1 year warranty period for machine + 3 years free providing for spare parts.

Production Standards

➤ GB10589-89, GB10592-89, GB10586-89, GB11158-89, GB/T5170.2-1996, GB/T5170.5-1996, GB2423.22-87, GB2423.1-89, GB2423.2-89, GB2423.3-91, GB2423.4-91, GB2424.1-89.
➤ DIN40046-14, JESD22-A101-A
➤ IEC60068-2-14, MIL-STD-810E, MIL-STD-883E

Common Specifications

Internal materials	SUS304 stainless steel (1.2mm thickness)
External materials	High quality cold rolled steel sheet (1.5mm thickness)
Heating Temperature Range	Rt ~ +200℃
Heating time	≥ 35 mins
Precooling Temperature Range	Rt ~ -70℃
Cooling time	≥ 70 mins

Temperature Shock Range	(+60℃ ~ +150℃) / (- 65℃ ~ -10℃)	
Temperature fluctuation	±0.5℃	
Temperature uniformity	±2.0℃	
Temperature Recovery Time	≤5 mins	
Basket traveling time	5 ~ 10 seconds	
Basket Position Indicator	3 lights indicator	
Basket Max Load	50 ~ 300 kg (Every models is different)	
Observation window	Non-condensation observation window with light	
Movement wheel	6 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
	Circulation mode	Forced air circulation
Refrigeration system	Compressor	Semi-Hermetic compressor
	Refrigerant	R404A / R23
	Evaporator	Warped type evaporator
	Heat exchanger	BPHE
	Refrigerator oil	3GS/32H
	Cooling way	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
	Connect Port	RS232 / 485 communication port
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	
Noise	≤65 dB	
Power supply standard	120V/220V/240V/380V/415V, 50Hz/60Hz, Single or three phases	

🏠 Standard Model		
Model	Working room size(W×D×H)	Temperature Shock Range
TS-50 (2 boxes)	360×400×350mm (Each room)	(+60℃ ~ +150℃) / (- 65℃ ~ -10℃)
TS-80 (2 boxes)	500×400×400mm (Each room)	
TS-150 (2 boxes)	600×500×500mm (Each room)	
TS-252 (2 boxes)	700×600×600mm (Each room)	
TS-480 (2 boxes)	800×800×750mm (Each room)	
If you have the more requirements, please contact us!		