

ASLI TS-150-B Thermal shock chamber



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Application:

Thermal shock tester is used to test the capability of material structure or composite materials to withstand the continuous environmental changes between extremely high temperature and low temperature during a short period, and therefore understand the chemical changes or physical damages caused by expansion from heat and contraction from cold in the shortest possible time. It is applicable to metals, plastic, rubber, electronics amongst other materials. The test result can be used as a reference or basis for product improvement.

Technical Parameters:

Model	TS-150(A~C)
Internal Dimension WxHxD (mm)	600x500x500
External Dimension WxHxD (mm)	1600x2000x1700
Temperature Range of Testing zone	Type B:-55°C ~+150°C (200°C is Optional)
	High temperature Range of Testing zone: +60°C~+150°C (200°C is Optional); Low Temperature Range of Testing Zone: -10°C~-40°C / -55°C / -65°C
Exposure Time of High/Low Temperature	Exposure Time of High Temperature: +60°C ~ +150°C (200°C is Optional) 30Mins
	Exposure Time of Low Temperature : -10°C~Type A:-40°C / Type B -55°C / Type C -65°C 30Mins

Temperature of Heat-Storing Slot / Heating Time	RT~200°C/About 45mins
Temperature of Cool-storing Slot / Cooling Time	RT~-75°C/ About 100mins
Temperature Recovery Time / Conversion Time	≤5min/≤5sec
Control Accuracy / Distribution Uniformity	±0.5°C/±2°C
Internal and External Material	Material of the inner box is SUS 304# stainless steel,of the outer box is stainless steel or see cold-rolled steel with paint coated.
Insulation Material	High temperature resistant , high density , formate chlorine , ethyl acetum foam insulation materials
Mechanics	P.I.D+S.S.R+ Micro-computer balanced temperature control system
Cooling System	Semi-hermetic double-stage compressor(water-cooled type) /Hermetic double-stage compressor (air-cooled type)
Security Protection Devices	Non-fuse breaker, high and low pressure protective switch of the compressor , refrigerator high-pressure protective switch , failure warning system, electronic alarm
Accessories	viewing window(special order)
Compressor	French 'Tecumseh' Brand, Germany Bizer Brand
Power	AC380V 3 phase 5 lines ,50/60HZ
Weight (Approx)	750 Kg

Features:

1. Temperature shock test chamber is divided into three boxes: high temperature, low temperature, and the testing area, testing products placed on the testing area; when testing, the valve , which drove by cylinder,lead the high temperature or low temperatures into the testing area. The test sample is in static mode.
2. Using touch-control graph control as operation interface, easy to operate.
3. Applying wind route conversation to the shock method to distribute temperature to the testing zone for cold and thermal shock measurement.
4. For high temperature shock or low temperature shock, maximum time is up to 999H, and maximum circulation cycles are 9999 times.
5. The system can be used for automatic Circulation Shock or manual selective shock.
6. Adopt binary cooling system, with quick cooling effect. Cooling method is water cooling.
7. Can entering normal temperature. R232 and R485 communication interface.