

# Fast Change Rate Thermal Cycle Chamber



The rapid rate thermal cycle chamber is designed for testing specimens under the rapid temperature change. LIB TR models meet the ESS (Environment Stress Screen) test. The temperature ramp rate is controllable at 5 °C / 10 °C / 15 °C per minute.

## Energy saving

When the temperature needs to be stabilized again, the advanced PID control can effectively control the output value of the constant phase and the recovery phase.



## Specification

Model	TR5-100	TR5-225	TR5-500	TR5-800	TR5-1000
Internal Dimension (mm)	400*500*500	500*600*750	700*800*900	800*1000*1000	1000*1000*1000
Overall Dimension (mm)	900*1050*1620	1000*1140*1870	1200*1340*2020	1300*1540*2120	1500*1540*2140
Interior Volume	100L	225L	500L	800L	1000L
Heat load	1000W				
Temperature Range	A : -20℃ ~ +150 ℃ B : -40℃ ~ +150 ℃ C : -70℃ ~ +150 ℃				
Temperature Fluctuation	± 0.5 ℃				
Temperature Deviation	± 2.0 ℃				
Cooling Rate	5 ℃ / min				
Heating Rate	5 ℃ / min				
Cooling system	Mechanical compression refrigeration system				
Refrigerating unit	French TECUMSEH compressor				
Heating Element	Nichrome heater				
Controller	Programmable color LCD touch screen controller, Ethernet connection, PC Link				
Temperature Sensor	PTR Platinum Resistance PT100Ω/MV A-class				
Air Circulation	Centrifugal wind fan				
Safety Device	Over-temperature Protection; Over-current Protection; Refrigerant High-Pressure Protection; Earth leakage Protection				
Exterior Material	Steel Plate with protective coating				
Interior Material	SUS304 stainless steel				
Thermal Insulation	Polyurethane foam and insulation cotton				
Observation Window	Interior lighting, double-layer thermo stability silicone rubber sealing				
Standard Configuration	1 Cable hole (Φ 50,) with plug; 2 shelves				
Power Supply	380V 50Hz				
Maximum Noise	65 dBA				