



# Thermal Shock Test Chamber

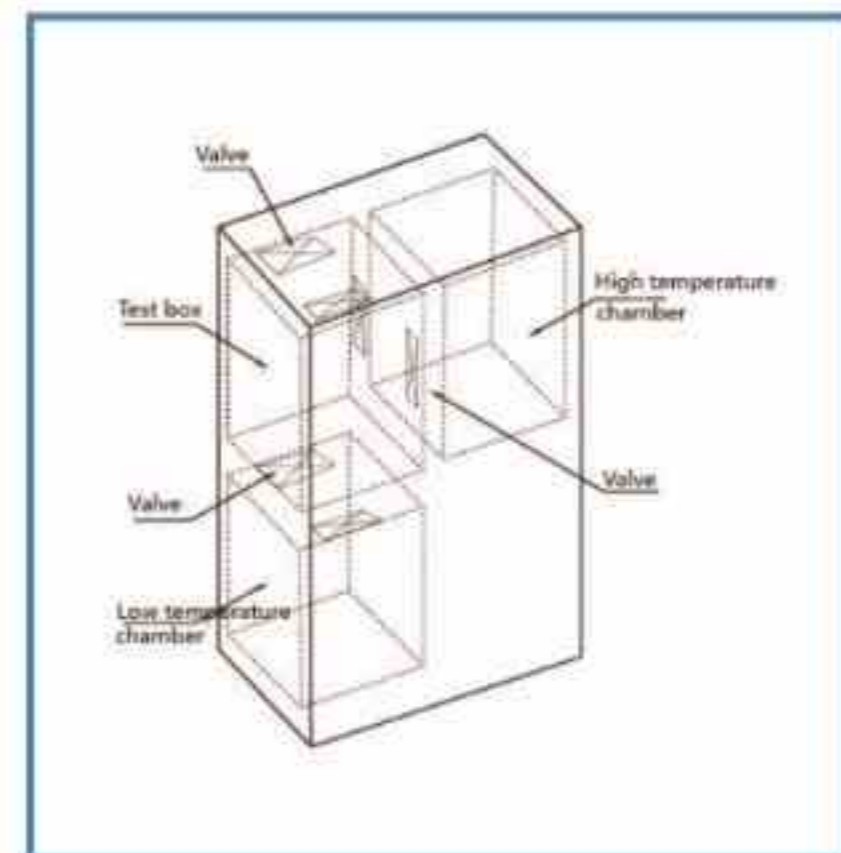
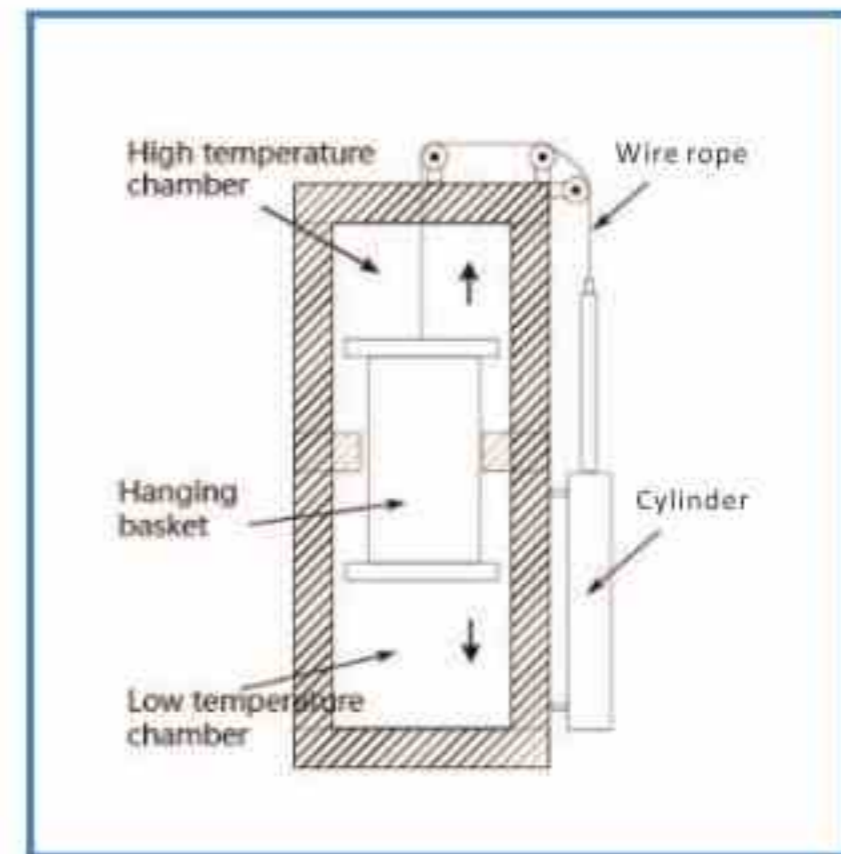
冷热冲击试验箱 TS2/TS3 Series



## Product Introduction

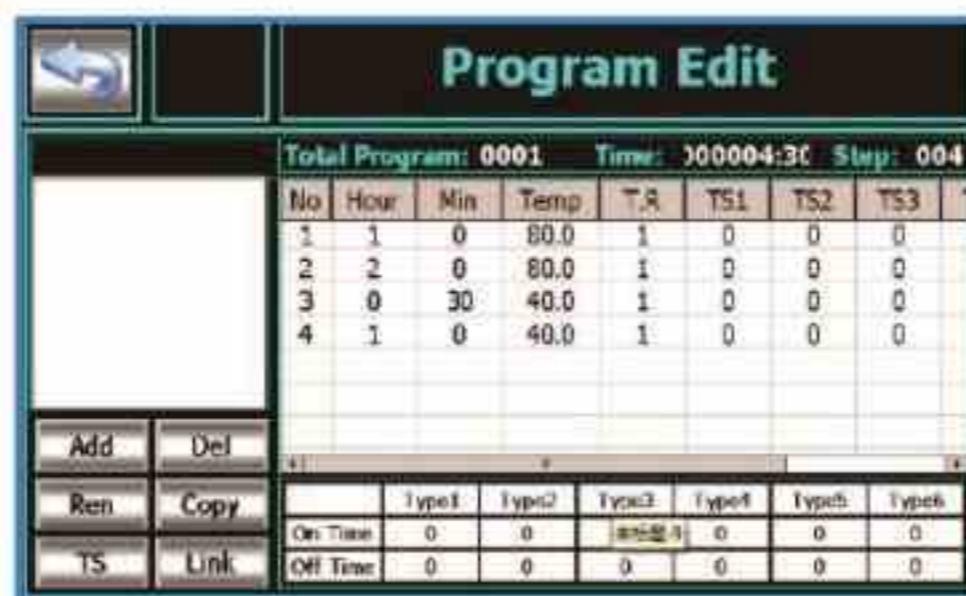
Thermal Shock Chamber tests products performance to withstand continuous temperature cycles, the purpose is to analyze and evaluate products safety performance and screen unqualified ones, it can finalize products chemical changes/physical damage caused by heat expansion and cold contraction principle, the test is mandatory from precise IC to mechanical parts.

## Working Chamber



## Controller

7" Japan UNIQUE UMC programmable controller  
Original Germany imported "Bock" compressor Cascade system



## Technical Parameters

Model	TS3-100	TS3-210	TS3-300	TS3-500
Interior Dim. W*D*H(mm)	500×500×400	600×700×500	780×700×550	800×900×700
Exterior Dim. W*D*H(mm)	1950×1150×1950	2100×1350×2200	2250×1350×2300	2250×2500×2150
Model	TS2-162	TS2-340	TS2-500	
Interior Dim. W*D*H(mm)	450×450×450	600×600×600	800×800×800	
Exterior Dim. W*D*H(mm)	1350×1250×1450	1480×1450×1700	1700×1650×2010	
Basket Size W*D*H (mm)	250×250	400×400	600×600	
Pre-heat Room	Pre-heating Temperature (Upper limit)	200°C		
	Heating Time	RT ~ +200°C/about 40min (unload)		
Pre-cooling Room	Pre-cooling Temperature (Lower limit)	-75°C		
	Cooling Time	RT ~ -70°C/about 90min (unload)		
Working Chamber	Thermal Shock	-20°C, -40°C, -55°C ~ +150°C		
	Temperature Range			
	Temperature Fluctuation	≤±0.5°C		
	Temperature Bias	≤±3°C		
Transfer Time & Recovery Time		≤15S ≤5min		
Temperature Recovery	TS3-100	10kg		
Condition & Load-bearing	TS3-210	15kg Exposed 30min under +150°C, exposed 5min under RT, exposed 30min		
	TS3-300	25kg under -55°C		
	TS3-500	35kg		
	TS2-162, TS2-340, TS2-500	Exposed 30min under +150°C, exposed 30 min under -55°C, 25kg specimen		
Material	Interior Material	Stainless steel (SUS304)		
	Exterior Material	Double side steel with surface painting		
	Insulation Material	Superfine fiberglass wool / polyurethane foam		
Refrigeration System	Cascade refrigeration system, Germany imported "Bock" compressor			
Controller	7" Japan original imported UNIQUE(UMC) touch screen controller			
Accessories	2 zone&3 zone: Over temperature protector, halogen light, cumulative timer, castors, 4 adjustable holders 3 zone: two SUS#304 shelves, one 50mmΦcable hole			
Safety Device	Overload protection; compressor over-pressure protection, over-current protection, short phase protection, water shortage protection, low voltage protection, independent over-temperature protection			
Power Supply	AC380V±10%·50HZ/60HZ			

- Permissible environmental condition: temperature (18 to 30°C) and relative humidity > 85% RH.
- All data are under ambient temperature 20°C, unload.