

Thermal Cycle Chamber-KST

Product Overview

Suitable for electrical and electronic products, including complete machines and components, for cold resistance testing. Adaptability testing under conditions of rapid or gradual temperature changes. Particularly suitable for Environmental Stress Screening (ESS) testing of electrical and electronic products.

Product Features

Reasonable structure, variable speed control, fast cooling.
Imported refrigeration units, key components are international brands, ensuring operational reliability.
Touch screen controller, easy to operate and maintain, with overload protection for the fan, compressor delay, and other protective functions.
Can set the number of cycles and defrost times, automatic (manual) defrosting.
Each product is customized according to customer requirements, ensuring high efficiency and energy saving. On-site debugging and acceptance are provided to guarantee user performance.

Execution Standards (Product Manufacturing and Testing):

- JJF 1101-2019 Metrology
- GB/T 2424 Related test guidelines
- GB/T 5170.1-2016 General Principles
- GB/T 5170.2-2017 Temperature
- GB/T 10589-2008 Low temperature
- GB/T 10592-2008 High and low temperature
- GB/T 11158-2008 High temperature

Meet the standards

- GB/T 2423-2012 (equivalent to IEC60068-2:2007):
[Test A: Low temperature], [Test B: High temperature], [Test Cab: Constant Humidity], [Test Db: Alternating Humidity], [Test Z/AD: Temperature/Humidity Combination], [Test Cy: Constant Humidity 85°C 85%RH]
- GJB 360B. 103 Humidity Test
- GJB 360B. 106 Moisture Resistance
- GJB 150A.3 High temperature
- GJB 150A.4 Low temperature
- GJB 150A.9 Humidity



Technical parameter						
Model		KST(Linear and Nonlinear)				
		225S-C5/C10/C15	370S-C5/C10/C15	504S-C5/C10/C15	720S-C5/C10/C15	1000S-C5/C10/C15
Interior size (mm)	W	700	800	800	900	1000
	H	700	900	900	1000	1000
	D	480	510	700	800	1000
Exterior size (mm)	W	900	1000	1000	1100	1200
	H	1773	1973	1973	2073	2103
	D	1910	1940	2070	2250	2300
Floor space(m2)		1.7	1.9	2.1	2.5	2.8
Temperature Range		-70℃ to +180℃				
Temperature Fluctuation		±0.5℃				
Temperature Uniformity		≤2.0℃				
Temperature Deviation		≤±2.0℃				
Heating Rate		Linear C5: -40℃ to +85℃, Linear 5℃/min (No specified) C10: -40℃ to +85℃, Linear 10℃/min (No specified) C15: -40℃ to +85℃, Linear 15℃/min (No specified)		Nonlinear C5: -40℃ to +85℃, Average 5℃/min (No specified) C10: -40℃ to +85℃, Average 10℃/min (Not specified) C15: -40℃ to +85℃, Average 15℃/min (Not specified)		
Cooling Rate		Linear C5: +85℃ to -40℃, Linear 5℃/min (No specified) C10: +85℃ to -40℃, Linear 10℃/min (No specified) C15: +85℃ to -40℃, Linear 15℃/min (No specified)		Nonlinear C5: +85℃ to -40℃, Average 5℃/min (No specified) C10: +85℃ to -40℃, Average 10℃/min (No specified) C15: +85℃ to -40℃, Average 15℃/min (No specified)		
Internal Material		SUS304 stainless steel plate, fully welded inner tank				
External Material		High-quality cold-rolled steel plate, surface electrostatic powder coating				
Insulation Material		Rigid polyurethane foam insulation layer, flame retardant grade B2				
Refrigeration System		Air-cooled and water-cooled options available				
		Semi-hermetic compressor				
Heater		High-quality nickel-chromium alloy heater				
Blower		Centrifugal fan				
Door Observation Window		Heated film hollow glass				
Controller		KOME G 7-inch color touch screen intelligent controller. Operating System: KOME G KM-5166 Cold Output Version.				
Protection Devices		Over-temperature protection, compressor overpressure, circuit breaker, overload protection, fan overload protection, oil pressure protection, water shortage protection, leakage protection.				
Standard Accessories		Observation window, cable hole (50mm, located on the left side), baffle, baffle frame (2 sets), internal light				
Optional Accessories		RS-232C, recorder, special test holes, special sample racks, additional baffles				
Power Supply		AC380 ±10% 50Hz Three-phase four-wire + ground				

*Note: Each parameter, size and appearance are tailored according to customer requirements.
We reserve the right to modify technical parameters.