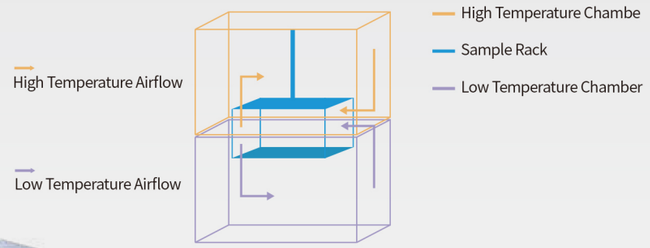
Two-zone Thermal Shock Test Chamber - KTS2

Product Overview

All functions are computer-controlled, using self-developed software with a user-friendly interface, making operation and monitoring simpler and more intuitive;
Temporary changes to the values of this program segment can be made while maintaining the current state, and time parameters can be set on the screen, allowing automatic operation according to set values for refrigeration, heating, and basket transfer switching;
Independent control of the cold and hot chambers, with independent doors, expanding the range of test use, ensuring full protection of the product's insulation effect.

Chamber Structure Features

The test chamber door is interlocked with the circulating fan and basket drive, ensuring the operator's safety. Once the door is opened, the power to the circulating fan and basket drive is automatically cut off.



Technical parameter

Model		KTS2					
		64A/B/D	100A/B/D	150A/B/D	200A/B/D	300A/B/D	500A/B/D
Temperature Range	High Temperature	+60℃ to +200℃					
	Preheating Time	+60℃ to +200℃ within 30 minutes					
	Low Temperature	(Type A) -55℃ to -10℃ (Type B) -70℃ to -10℃ (Type D) -80℃ to -10℃					
	Precooling Time	(Type A) +20℃ to -55℃ 70 within 70 minutes (Type B) +20℃ to -70℃ 70 within 70 minutes (Type D)+20℃ to -80℃ 70 within 70 minutes					
	Test Chamber	(Type A) -40℃ to -150℃ (Type B) -55℃ to -150℃ (Type D) -65℃ to -150℃					
	Recovery Time	High Temperature Exposure 30 minutes					
		Low Temperature Exposure 30 minutes					
		Recovery Time within 5 minutes					
Floor Area（m2）		1.72	2.08	2.3	2.95	3.73	
Basket Size（mm）	W	500	650	710	970	970	1000
	H	350	350	400	400	460	500
	D	370	450	530	550	680	1000
Inner Chamber Material		SUS304 stainless steel plate, fully welded inner chamber					
Outer Chamber Material		High-quality cold-rolled steel plate, surface electrostatic powder coating					
Insulation Material		Rigid polyurethane foam insulation layer, flame retardant grade B2					
Refrigeration System		Cascade, semi-hermetic compressor, environmentally friendly refrigerant (HFC-R404A/HFC-23)					
Controller		Komeg 7-inch color touch screen intelligent controller Operating System: Komeg KM-5188 cold impact system cold output version					
Protection Devices		No-fuse switch, compressor overpressure, overheating, overcurrent protection, overtemperature protection, fan overload protection, fuse, dry-burn protector, water shortage protection					
Standard Accessories		Sample rack2, lead-in hole (50mm)*1					
Power Supply		AC380 ±10% 50Hz three-phase four-wire + ground wire					

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

Three-zone Thermal Shock Test Chamber - KTS3

Product Overview

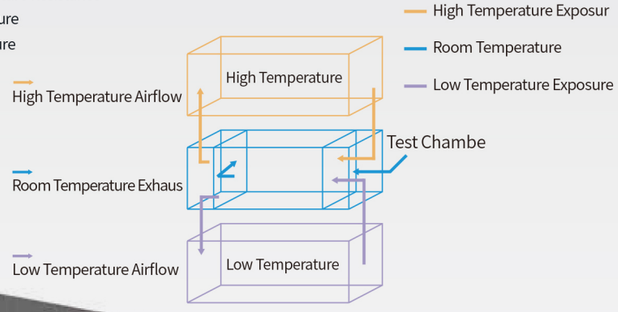
The three-chamber thermal shock test chamber is used to test the ability of materials to withstand extreme high and low temperatures in a continuous environment, allowing for the quickest possible testing of chemical changes or physical damage caused by thermal expansion and contraction. Suitable materials include metals, plastics, rubber, electronic equipment, etc., and can serve as a basis or reference for product improvement.

Execution Standards (Product Manufacturing and Testing)

- JJF 1101-2019 Metrology
- GB/T 2424Related Test Guidelines
- GB/T 5170.1-2016 General Principles
- GB/T 5170.2-2017 Temperature
- G B/T 10589-2008 Low Temperature
- G B/T 10592-2008High and Low Temperature
- GB/T 11158-2008 High Temperature

Compliance 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 "Double 85"]
GJB 360B.103 Method Humidity
GJB 360B.106 Method Moisture Resistance
GJB 150A.3 High Temperature
GJB 150A.4 Low Temperature
GJB 150A.9 Humidity



Technical parameter

Model		KTS3						
		64A/B/D	100A/B/D	150A/B/D	200A/B/D	300A/B/D	500A/B/D	1000A/B/D
Temperature Range	High Temperature	+60℃ to +200℃						
	Preheating Time	+60℃ to +200℃ within 30 minutes						
	Low Temperature	(Type A) -55℃ to -10℃ (Type B) -70℃ to -10℃ (Type D) -80℃ to -10℃						
	Precooling Time	(Type A) +20℃ to -55℃ 70 within 70 minutes (Type B) +20℃ to -70℃ 70 within 70 minutes (Type D) +20℃ to -80℃ 70 within 70 minutes						
	Test Chamber	(Type A) -40℃ to -150℃ (Type B) -55℃ to -150℃ (Type D) -65℃ to -150℃						
	Recovery Time	High Temperature Exposure 30 minutes						
		Low Temperature Exposure 30 minutes						
		Recovery Time within 5 minutes						
Floor Area（m2）		2.7	3.5	3.1	3.5	3.8	4.1	5.04
Basket Size（mm）	W	400	500	600	650	850	1000	1000
	H	400	450	500	460	600	750	1000
	D	400	450	500	670	650	700	1000
Inner Chamber Material		SUS304 stainless steel plate, fully welded inner chamber						
Outer Chamber Material		High-quality cold-rolled steel plate, surface electrostatic powder coating						
Insulation Material		Rigid polyurethane foam insulation layer, flame retardant grade B2						
Refrigeration System		Cascade, semi-hermetic compressor, environmentally friendly refrigerant (HFC-R404A/HFC-23)						
Controller		Komeg 7-inch color touch screen intelligent controller Operating System: Komeg KM-5188 cold impact system cold output version						
Protection Devices		No-fuse switch, compressor overpressure, overheating, overcurrent protection, overtemperature protection, fan overload protection, fuse, dry-burn protector, water shortage protection						
Standard Accessories		2 Sample racks, 50mm cable port *1						
Power Supply		AC380 ±10% 50Hz three-phase four-wire + ground wire						

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