Thermal Shock Chamber

KASONTEST®

Applicable Industry:

Equipment summary:

3-slot hot and cold impact test instrument is divided into high temperature area, low temperature area and test area three parts, each area is a unique insulation structure, so doing hot and cold impact test. High-temperature impact test or low-temperature impact test, the maximum time is up to 9999 minutes, the most cycle time is up to 9999 times. The machine can be automatically or manually cycle the impact or selectively set the two areas or three areas to impact of hot and cold. It used binary cooling system that is very effectiveness for cooling, the cooling system is divided into the air-cooled and water-cooled. It also

can be connected with a computer, but the record instrument is only for optional purchase. Color LCD touch-control operation interface with Chinese and English, easy to operate.

Corresponding standard:

1.GB/T2423.1-1989 low-temperature testing method
2.GB/T2423.2-1989 high-temperature testing method
3.GB/T2423.22-1989 temperature test
4.GJB150.5-86 temperature impact test
5.GJB360.7-87 temperature impact test
6.GJB367.2-87 405 temperature impact test

Applicable industries:

Applied to aviation, military, ships, electrical, electronics, instruments and meters; medical equipment; civilian nuclear energy; colleges and universities; research laboratories; commodity inspection, arbitration, and technical supervision departments; building materials ceramic; petroleum and chemical products, for high and low temperature impact test.

Main functions:

Three slot hot and cold impact testing machine is used to test the bad influence of the static state sample in the high and low temperature changes rapidly environment. Commonly used in electronic parts, auto parts and high-tech products, etc; and need to harsh environmental conditions test and high tolerance requirements inspection.

Main Feature:

1. Air-cooled hot and cold impact test chamber easy to operation, reliable in performance. Good appearance, reasonable structure, advanced technology, fine material, ect.

2. Equipment is divided into high temperature box, low temperature box, test box of three parts, adopt unique thermal structures and heat storage effect,the sample is static when testing, guide into hot and cold air to test ozone by hot and cold switching road to achieve hot and cold temperature impact purpose.

3. Use the most advanced measuring device, controller is large touch color LCD, easy to operate, reliabilty, curve of system operation conditions, implement and setting program can be show by Chinese and English.

4. 96 test specification set independently, impacting time is 999 hours and 59min, cycle time 1~999 times can be set. Can realize refrigerating machine automatic operation, reduce the operating personnel workload, can run automatically and stop work at any time.

5. There is 50mm test hole on the left side, to plus power supply load wiring test components.

6. Can independently set high temperature, low temperature, and the function of cold and hot shock in three different conditions.

7. Can be used as high temperature box or low temperature box, as high temperature machine, low temperature machine and hot -cold impact testing machine.

8. Have fully automatic, high precision system circuit, P.L.C lock handle all parts working, adopt the P.I.D control automatic calculation, high temperature control precision.

9. Advanced air circulation loop design of science, to make inner temperature uniformity, avoid any corner. Complete security protection device, to avoid any possible security hidden danger, ensure long-term reliability of the equipment.

10. Can set cycle-index and defrost the number, automatic or manual defrost.

11. Air outlet and air return vent controlled by sensors detection, throttle body switch time less than 10s, cold and hot shock temperature recover time less than 15min.

12. When running the state and curve display, if there any unusual condition, screen instantly automatic display failure point,the reason and provide troubleshooting methods. If the input power is not stable, the emergency stop device will protect the testing machine.

13. Refrigeration system using cascade cryogenic loop system design, frozen with Europe and the United States imported compressor, and use of ozone coefficient is zero (HFC) of green environmental protection refrigerants R507,R23.

14. Strong safety protection function:overload protection, power leakage protection, control circuit overload, short circuit protection, compressor protection, earthing protection, over temperature protection, alarm voice prompt and so on.

Main technical specifications

Model		A	B	C	G	H
size (W×H×D)mm	Inner box	35×35×40	50×40×40	60×50×50	35×35×40	50×40×40
	Outer box	150×195×145	180×200×145	190×200×155	1501×95×145	180×200×145
High-temperature range		80℃~200℃				
Low-temperature range		-55℃~-10℃			-65℃~-10℃	-75℃~-10℃
Testing room temperature	high	60℃~150℃				
	low	-10℃~-40℃			-10℃~-55℃	10℃~-60℃
Heating-up time		60℃~200℃ about 25min				
Cooling time		20℃~-55℃ about 60min			20℃~-65℃ about 75min	20℃~-75℃ about 90min
Impact recover time		High-temperature(150℃)about 30min				
		Low-temperature(-40℃or-55℃or-60℃)about 30min				
		Impact recover time 5min				
weight		2.5kg	5kg	10kg	2.5kg	5kg
Inner material		SUS#304 stainless steel				
Outer material		US#304 stainless steel				

insulation	High-precision glass wool + PU foam rubber				
Cooling system	Copy blowing type or water-cooled, and environmental protection refrigerant.				
controller	Man-machine interface with touch-programmable control				
protector	Compressor slide off, overheating, over-temperature, over-pressure, dry heat, motor overload protection switch				
Attachment	Compartment frame 2, the test hole 1				
Power(KW)	16	30	42	20	34
Power supply	AC380V±10% 3PH 50/60Hz				

FOCUS IN MATERIAL TEST

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