Constant temperature and humidity test chamber

KASONTEST®

1. **Application:**

This test chamber provides a simulated environment of high temperature, low temperature, high humidity and low humidity to detect the material and strength of rubber, plastic, electronic products before and after testing. The machine can also simulate the container environment to detect the fading and shrinkage of rubber and plastic under high temperature and high humidity. Test the heat resistance, cold resistance, dry resistance and humidity resistance of various materials. It is suitable for quality control testing of factories in electronics, electrical appliances, batteries, universities, research institutes, inspection and quarantine bureaus, paper products, food, vehicles, auto parts, metals, chemicals, building materials and other industries.

2. **Standard:**

2.1 GB11158 Technical Conditions of High Temperature Test Chamber

2.2 GB10589-89 Technical Conditions of Low Temperature Test Chamber

2.3 GB10592-89 Technical conditions of high and low temperature test chamber

2.4 GB/T10586-89 Technical Conditions of Damp Heat Test Chamber

2.5 GB/T2423.1-2008 Low temperature test chamber test method

2.6 GB/T2423.2-2008 Test method for high temperature test chamber

2.7 GB/T2423.3-2006 Damp heat test chamber test method

2.8 GB/T2423.4-2008 Test method for alternating damp heat

2.9 GB/T2423.22-2002 Test method for temperature change

2.10 IEC60068-2-1.1990 Low temperature test chamber test method

2.11 IEC60068-2-2.1974 High temperature test chamber test method

2.12 GJB150.3 high temperature test

2.13 GJB150.4 low temperature test

2.14 GJB150.9 Damp heat test

3. **Features:**

3.1 High-quality appearance, the body adopts arc shape, the surface is treated with matte stripes, and adopts non-reaction handle, easy to operate, safe and reliable.

3.2 Rectangular floating layer glass viewing window, which can be used to observe the test items in the test. 2.3 3.3 The window is equipped with an anti-sweat electric heater device to prevent water vapor from condensing and water droplets, and a high-brightness PL fluorescent lamp to keep the inside of the box illuminated.

3.4 The double-layer insulation of the box door is tight and airtight, which can effectively isolate the internal temperature leakage.

3.5 With an external water supply system, it is convenient to supplement the water supply of the humidification barrel, and it can be recycled and used automatically.

3.6 The compressor circulation system adopts the French "Tecumseh" brand, which can more effectively remove the lubricating oil between the condenser tube and the capillary tube, and the whole series adopts environmentally friendly refrigerants (R23/R404/R507)

3.7 The controller adopts self-developed LCD display screen, which can display the measured value, set value and time at the same time.

3.8 The controller has multi-segment program editing and temperature, humidity can do fast (OUICK) or slope (SLOP) control.

3.9 The built-in moving pulley is easy to move and place and has the potential to set the screw to fix the position

Main technical specifications

Model	KASON-HW800D
Inner box size and outer box size	Inner box size: (W*H*D) 1000mm*800mm*1000mm
Outer box size	(W*H*D) 1500mm*1650mm*1520mm
Box volume	800L
Temperature range	-60~+70℃ (-70℃-180℃ Optional)
Humidity range	20~95%
Control stability	Temperature ±0.5℃; Humidity ±2%
Uniformity of distribution	Temperature ±2.0℃; Humidity ±3.0%
Resolution	Temperature: 0.01℃; Humidity: 0.1%R.H
Heating time	Average3.5℃~5℃/min, non-linear heating
Cooling time	Average2℃/min, non-linear cooling
Temperature limit	Maximum temperature +70℃; Minimum temperature -60℃
Shell material	Steel plate paint
Inner box material	SUS#304 stainless steel plate
Insulation material	Polyurethane rigid foam + glass wool
Press	1 Silicone foam pressing
Rack	There are 2 stainless steel shelves with adjustable height in the box
Heater	Adopt Taiwan imported stainless steel fin type radiator tube heating tube
Humidifier	Split humidification cylinder design
Fan	motor Stainless steel extension shaft Multi-wing fan blade aluminum alloy wind wheel Special adjustable louver air supply and circulation system
Box door	Single door, Double door, recessed non-reaction flat handle Three-layer vacuum glass to enlarge the window Electric heating automatic defogging, LED lighting
Water tank	1 built-in removable water tank (easy to clean)

	1 automatic water supply pump (automatically transport the water supply from the lower tank to the upper layer) Water shortage alarm device
Tripod	The bottom of the fuselage is equipped with 4 polyurethane movable universal wheels
Refrigeration system features	Multi-stage automatic load capacity adjustment technology Compressor ~ French "Tecumseh" brand hermetic compressor Condenser ~ fin type with Taiwan cooling fan Evaporator ~ Fin type multi-stage automatic load capacity adjustment Expansion valve ~ European and American imported components Refrigerant ~ Eco-friendly Frozen Refrigerant Accessories ~ Desiccant, Oil Separator, Refrigerant Window, etc...
Control method	The balance temperature and humidity control system (BTHC) controls the SSR in a P.I.D. way, so that the heating and humidifying amount of the system is equal to the heat and humidity loss, so it can be used stably for a long time.

FOCUS IN MATERIAL TEST

KASONTEST®

JINAN KASON TESTING
EQUIPMENT Co, LTD.
DuandianIndustrial Park , Jingshi Road, Jinan City,China.
P: +86 159 1008 1986
E: admin@jnkason.com I W: www.syjlab.com