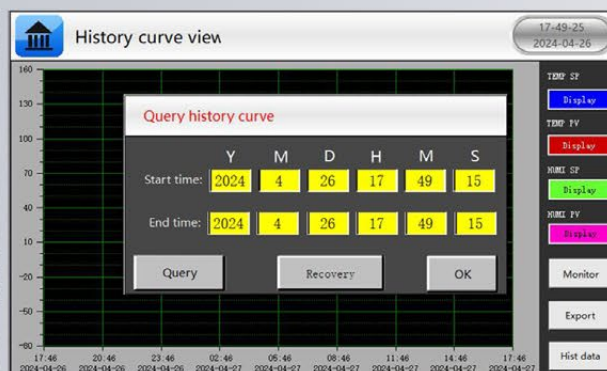
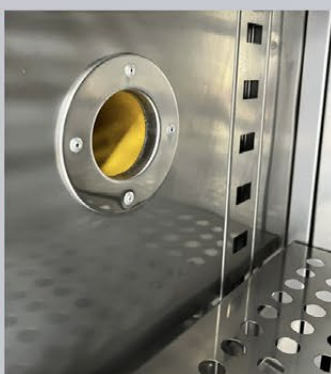


# ENVIRONMENTAL TEST CHAMBER TP-TH-408DH

**STANDARD:** IEC 60068-2-2, IEC68-2-1 TEST A, IEC68-2-2 TEST B, IEC68-2-3 TEST C, MIL-STD-810D, MIL-STD-202F

It is mainly used to simulate high temperature, low temperature, hot and humid environment, or high temperature, low temperature, hot and humid alternating environment that may be encountered during transportation, storage and use of electronic instruments, new materials, electrical engineering, vehicle accessories, metals, electronic products, aerospace materials, etc., to check the materials, accessories or equipment for resistance to high temperature, cold and moisture, as well as the possible damage and shortened lifespan.



**SINCE 2006**

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## TECHNICAL SPECIFICATIONS

Temperature	
Temperature control range	-40℃ ~ +150℃
Resolution	0.01℃
Temperature fluctuation	±0.5℃
Temperature deviation	±0.5℃
Temperature uniformity	≤2.0℃
Heating rate	-40℃ → +150℃ 4.0℃/min (no-load nonlinearity)
Cooling rate	+150℃ → -40℃ 1.0℃/min (no-load nonlinearity)
Humidity	
Humidity control range	20%-98%R.H (10%-98%R.H special conditions for selection)
Resolution	0.1%R.H
Humidity fluctuation	±2.0%R.H
Humidity deviation	±3.0%R.H
Working chamber	
Materials	Shell: cold rolled steel sheet, ≥1.2mm Interior: SUS304# stainless steel plate, ≥1.0mm, base plate load 50Kg Thermal insulation material: High temperature resistant high density urethane foam insulation material
Sample rack	Equipped with two sample racks, the spacing is adjustable, and the load capacity is 20kg (50kg, 80kg, 100kg, etc. customizable)
Door	Single door, explosion-proof handle
Observation window	Three-layer vacuum explosion-proof glass, window size 250x320x40mm, automatic defog function
Test hole	There is a Φ50mm (customizable size) test hole on the left side of the box, with corresponding thermal insulation accessories and special sealing plugs.
Lighting	Low voltage explosion proof LED lighting, switch control.
Heating and cooling system	
Heater	Electric heating, nickel-chromium alloy electric heating wire (customized)
Control mode	PID+SSR
Cooling method	A single-stage (above -40℃) or cascade (less than -40℃) cooling system is used, and heat exchange is achieved through an evaporative condenser.
Control mode	Automatic adjustment according to test conditions
Compressor	Imported ultra-low temperature compressor
Refrigerant	R404A or 232 (ozone depletion index is 0) environmentally friendly refrigerant
Condenser	Fin-type air-cooled condenser / Shell and tube water-cooled condenser
Evaporator	Laminated multi-stage evaporator
Control system	
Sensor	Platinum PT-100
Controller	7" full color touch screen
Operation mode	Customized control/program control
Temperature measurement	-90.00℃ ~ 300.00℃
Humidity measurement	1.0%~100%R.H
Installation and working conditions	
Working environment	Temperature: 20℃ ~ 35℃; Relative humidity: ≤ 85%RH; Air pressure: 86 ~ 106kpa
Power supply	220V(±10%), 50Hz