

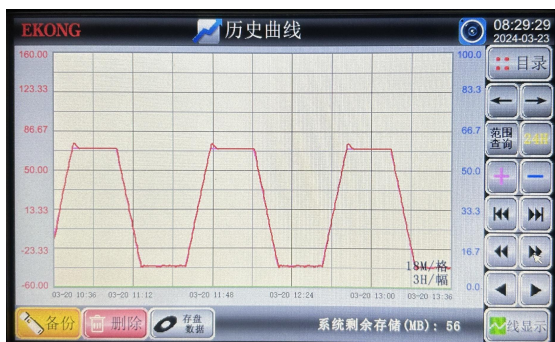
DR-H204 Rapid Temperature Change Test Chamber



The rapid temperature change test chamber is a sophisticated device. Equipped with advanced tech, it can swiftly shift between high and low temperatures, often achieving transitions within minutes. By accurately simulating these rapid changes, it conducts an in - depth examination of product adaptability, reliability, and performance, including sensitive electronics, automotive parts, and aerospace materials under extreme temperature fluctuations. Widely used in electronics, automotive, and aerospace, this equipment ensures product quality and durability in real - world, constantly temperature - variable conditions. It offers valuable data for manufacturers to optimize design and enhance product resilience against thermal stress.

FEATURES

- ❖ High ramp rates up to $25^{\circ}\text{C}/\text{min}$ for accelerated testing.
- ❖ Wide temperature range from -70°C to $+180^{\circ}\text{C}$.
- ❖ Precision with $\pm 0.5^{\circ}\text{C}$ stability and $\pm 2^{\circ}\text{C}$ uniformity.
- ❖ Low - noise operation creates a peaceful testing environment.
- ❖ The chamber can be remotely controlled via network.



Standard Compliance & Key Applications

This rapid - temperature - change test chamber meets JESD22 - A104F and IEC60749 - 25 standards. It accurately tests specimens with ramp rates from 10 - 15K/min or 15K/min in the -40°C to $+125^{\circ}\text{C}$ range. Ideal for automotive, solder joint life, and semiconductor reliability tests.

Energy-efficient design

VRF technology, based on PID+PWM, uses cold control PID for low - temp energy - saving. During cooling and low - temp constant - temp, it adjusts refrigeration for "cold balance" (no cooling while heating and vice versa). This design saves over 30% energy vs traditional mode.



DR-H204

Rapid Temperature Change Test Chamber

SPECIFICATIONS

Model		DR-H204-100	DR-H204-150	DR-H204-225	DR-H204-408
Internal Dimension (W*H*D)mm		500*500*400	500*600*500	600*750*500	600*850*800
External Dimension (W*H*D)mm		750*1536*1310	750*1636*1410	850*1786*1410	850*1896*1710
Voltage（v）		Three Phase 380			
Performance	Temp.& Humi. Adjust Way	Balanced temperature and humidity control (BTHC) PID intelligent adjustment			
	Temperature range	-70℃~+180℃（Other temperature ranges can be customized）			
	Quick Temperature Range	-45℃~+150℃（Other temperature ranges can be customized）			
	Temperature resolution	0.01℃			
	Temperature deviation	±1℃（without loading）			
	Temperature uniformity	≤2℃			
	Temperature fluctuation	±0.5℃			
	Humidity range	20%~98%（Other humidity ranges can also be customized）			
	Humidity accuracy	0.1%RH			
	Humidity deviation	±2%R.H			
	Humidity uniformity	±3%R.H（without loading）			
	Humidity fluctuation	±2%R.H			
	Linear heating rate	5℃/min、10℃/min、15℃/min、20℃/min、23℃/min（without loading）			
	Non-linear heating rate	5℃/min、10℃/min、15℃/min、20℃/min、23℃/min（without loading）			
	Internal Chamber Material	Stainless Steel 304			
	External Chamber Material	Stainless Steel steel of paint spray			
Regulator	Cooling Method	Single stage compression, two stage compression			
	Refrigerator	Hermetically Sealed France Tecumseh Compressor or Semi-hermetic BOCK Compressor			
	Cooling Method	Air-cooled/Water-cooled			
Controller	Operation Panel	Programmable LCD Touch Screen			
	Running Mode	Fix Running, Pattern Running			
	Program Memory Capacity	120 Group Programmable, Max 100 Section Each			
	Output	Rs-232 (USB,Optional)			
Water	Water Supply	Circulating Water			
	Water Tank Capacity	Chamber Internal Capacity < 800L: 25L X 1pc Chamber Internal Capacity > 800L: 25LX 2pc			
Conventional large capacity: 800 liters / 1000 liters（For more requirements regarding product dimensions and parameters, customization can be made according to specific requests.）					