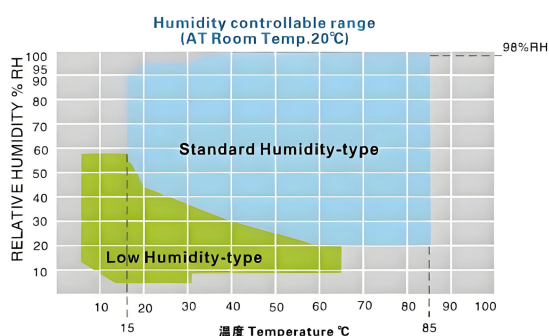




A walk - in temperature and humidity test chamber is a functional environmental simulator. It assesses product reliability in extreme climates. Its large walk - in space suits large - scale or batch tests in automotive, aerospace, and energy storage industries. It precisely controls temperatures from - 70°C to + 180°C and humidity from 10% to 98% RH, with $\pm 0.5^{\circ}\text{C}$ and $\pm 2\%$ RH accuracy. Made of durable stainless steel and quality insulation, it withstands thermal stress and long - term use. Custom features can include rapid temperature cycling, condensation handling, or gas system integration. Programmable controllers enable automated tests, real - time parameter monitoring, and data logging. This adaptable solution validates material and product performance in controlled, repeatable settings.

FEATURES

- ❖ Spacious for large samples, enables multi - sample tests.
- ❖ Standard chamber reaches $\pm 0.5^{\circ}\text{C}$ for unrivaled precision.
- ❖ Capable of Long - Term Continuous Testing
- ❖ High-precision cooling system that induce energy-saving
- ❖ Equipped with a ramp for easy loading of heavy items.



Electronic humidity sensing

Electronic humidity sensors offer precise readings with small error via advanced tech. In contrast, wet - and - dry - bulb hygrometers' accuracy is affected by factors like thermometer, airflow, and wick cleanliness, thus less reliable.

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.



SPECIFICATIONS

Model		DR-H202
Internal Dimension (W*H*D)mm		2,4,6,8,10,12,20.....48 Cubic Meter Can be customized with any size
Voltage (v)		Three Phase 380 50HZ
Performance	Temp.& Humi. Adjust Way	Balanced temperature and humidity control (BTHC) PID intelligent adjustment
	Temperature range	-70℃~+150℃ (Other temperature ranges can be customized)
	Temperature accuracy	0.01℃
	Temperature tolerance	≤±1.0℃ or ±2.0℃
	Temperature fluctuations	≤2℃ (without load and temperature stable)
	Temperature uniformity	≤2℃ (without loading)
	Humidity range	20%~98% (Other humidity ranges can also be customized)
	Humidity accuracy	0.1%RH
	Humidity tolerance	1、≥75%RH: ≤±3%RH ; 2、≤75%RH : ≤±6%RH
	Humidity fluctuations	≤±2.5%RH
	Heating rate	3℃/min in average (no load, overall average)
	Cooling rate	1℃/min in average (no load, overall average)
	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
	Refrigerant	R404A, R23 environmentally friendly refrigerant
	Cooling Method	Air-cooled/Water-cooled
Controller	Operation Panel	High-precision touch screen for instrumentation and control + PLC
	Running Mode	Fixed value operation (manual mode)&program operation (automatic mode)
	Program Memory Capacity	120 Group Programmable, Max 100 Section Each
	Output	PID+SSR/SCR automatic bidirectional synchronous output.
Water	Water Supply	Circulating Water
	Watering Methods	1.Automatic Water Refilling 2.Manual Water Refilling
Others	Dry air purge system ,Humidifying water auto purifying and supply system, New air ventilation system ,Fire.proof, explosion-proof & alarm system ,Low temperature low humidity, low temperature high humidity testrequirement, Remote computer, mobile alarm function.	
Use	Ambient temperature 5℃ ~35℃; Relative humidity ≤85%; Atmospheric pressure 80 KPa ~ 106 KPa; No strong vibration and flammable and explosive atmosphere around.	