

Programmable Temperature and Humidity Test Chamber



Features:

- 1, Chamber exterior material is stainless steel with environmentally baking paint resists corrosion and provides impact resistance. Interior material is SUS304# stainless steel with excellent heat resistance and easy to clean.
- 2, Touch screen controller is designed to save chamber programming and setup time with temperature limit and alarm to protect your product.
- 3, Safety relay connection is provided to protect your device under test by removing power to it when the chamber is not running.
- 4, RS-232 communications is for computer connection, programming can be set on computer by software, monitor testing process and automatically execute power on/off functions.
- 5, Fog-free viewing window and interior light makes viewing workspace freely and observe the test under best conditions.
- 6, Adjustable product shelf slides out for easier product access. Shelf design is non-tipping and supports large product loads.
- 7, Left side of chamber with diameter 50mm (support customized) cable port for power-on test.
- 8, Optional electronic humidity sensor is used on all test chambers for accuracy and minimal maintenance.

Conform but not limited below international testing standards:

IEC68-2-1 (GB-2423.1-2008) Testing A: Low temperature testing method
 IEC68-2-2 (GB-2423.2-2008) Testing B: High temperature testing method
 MIL-STD-202F (GJB360.8-87) High temperature life testing
 MIL-STD-810D (GBJ150.3) High temperature method
 MIL-STD810D (GBJ150.4) Low temperature method
 IEC68-2-3 (GB2423.3-93) Testing Ca: Constant moist heat testing method.
 IEC68-2-30 (GB2423.4-93) Testing Db: Alternate moist heat testing method.
 MIL-STD-810D (GJB150.9-93) Moist heat testing method

Optional Accessories:

Cable Port: Size of cable port is available for 100mm
 Water purifier RO 80: Continuously provide purified water for humidifying heater and wet-bulb
 Dehumidifier: The rotation regenerating dehumidifier M-120 ensures precise control of low humidity (10C, 15%RH) for electrostatic reliability tests.
 Defrosting Device: The chamber automatically detects and melts the frost on the evaporator when operating below 0deg in order to allow continuous operation
 Electronic humidity sensor: Precision Humidity Sensor with stainless steel protection tube

Technical Specifications:

Control Mode	Cold Balanced Control System
Operating Temp. & Humid. Range	+5deg ~ +35deg; <85%R.H.
Temp. range	A=0deg, B=-20deg, C=-40deg, D=-70deg ~ +100deg(150deg)
Humid. range	20% ~98%R.H. (Optional: 5%~98%R.H.)
Temp. & Humid. fluctuation	±0.5deg; ±2.5%R.H.
Temp. & Humid. uniformity	≤2.0deg; ≤3%R.H.
Temp. & Humid. Deviation	≤1.0deg; ≤2%R.H.
Temp. Heating Time	0deg ~ +100degwithin 30min; -20deg ~ +150degwithin 45min
Temp. Cooling Time	20deg ~ -40degwithin 60min; 20deg ~ -70degwithin 85min
Power Supply	AC380V, 50/60HZ, Three-phase (Specified by User)
Exterior Material	stainless steel with baking paint
Interior material	SUS304# Stainless steel
Insulation material	Rigid Polyurethane foam
Refrigeration system	Mechanical cascade refrigeration system; Fin type radiator
Circulation system	Mechanical convection system
Humidification Water Supply	Automatic water regulating, recoverable supply system,
Water quality	Distilled water only, 20L Water tank capacity
Controller	Touch Screen Controller
Safety devices	Overheat protector Switch, Compressor overload protector Switch

Model Selection:

Model	Temp and Humidity Range	Internal Dimension (W x H x D) mm	Exterior Dimension (W x H x D) mm
QTH-V100A	0°C ~ + 150°C 20% ~ 98%RH	500x500x400	700x1640x1067
QTH-V150A		500x600x500	750x1730x1390
QTH-V225A		500x750x600	750x1730x1490
QTH-V416A		700x850x700	950x1860x1550
QTH-V1000A		1000x1000x1000	1200 x 1960 x 1950
QTH-V100B	-20°C ~ + 150°C 20% ~ 98%RH	500x500x400	700x1640x1067
QTH-V150B		500x600x500	750x1730x1390
QTH-V225B		500x750x600	750x1730x1490
QTH-V416B		700x850x700	950x1860x1550
QTH-V1000B		1000x1000x1000	1200 x 1960 x 1950
QTH-V100C	-40°C ~ + 150°C 20% ~ 98%RH	500x500x400	700x1640x1067
QTH-V150C		500x600x500	750x1730x1390
QTH-V225C		500x750x600	750x1730x1490
QTH-V416C		700x850x700	950x1860x1550
QTH-V1000C		1000x1000x1000	1200 x 1960 x 1950
QTH-V100D	-70°C ~ + 150°C 20% ~ 98%RH	500x500x400	700x1640x1067
QTH-V150D		500x600x500	750x1730x1390
QTH-V225D		500x750x600	750x1730x1490
QTH-V416D		700x850x700	950x1860x1550
QTH-V1000D		1000x1000x1000	1200 x 1960 x 1950
Remark: 20%~98%RH is standard humidity range, support custom made 10%~98%RH Or 5%~98%RH			
Support custom made dimension			