

Temperature and humidity chamber



Picture for reference only

Application

Temperature and humidity chamber is one kind of environmental test equipment, applicable to temperature-humidity test of mini electrical, instrumentation, automotive, aerospace, electronic chemicals, materials components, and aging test, the temperature and humidity chamber adopts the most reasonable structure and most stable control method that adds value to its good appearance, easiness to operate, safeness and high-precision temperature and humidity control. It is ideal for temperature and humidity test with GB、GJB、ASTM standards met.

In testing procedure, the chamber achieves fully-automatic control of cooling, heating, dehumidification, humidification and adding water, which enable the chamber to operate in comprehensive environmental test with temperature-humidity involved, besides, it can also make individual testing environment of high temperature, low temperature, alternating temperature and humidity, and steady dame heat.

Main parameters:

Internal size model (cm) W*H*D	GDJS80 40*50*40	GDJS120 40*60*50	GDJS150 50*60*50	GDJS225 50*75*60	GDJS408 60*85*80	GDJS800 100*100*80	GDJS1000 100*100*100
Property	Temperature and humidity adjustment moods	(BTCH), PID intelligent control					
	Temperature range	0、-20、-40、-60、-70、-180~150℃					
	Relative humidity range	20%-98%R.H					
	Temperature uniformity	±2℃					
	Humidity uniformity	±0.5℃					
	Temperature constancy	±3%R.H					
	Humidity constancy	±2.5%R.H					
	Heating rate	≥3° C/min					
	Freezing rate	≥1° C/min					
material	Interior material	SUS304 bright stainless steel plate					
	Exterior material	SUS304 drawing stainless steel plate/antirust cold-rolled steel (plastic spraying)					
	Insulation	Super-thin glass cotton + polyurethane foam					
adjustor	Refrigerator	France Taikang hermetic compressor/ (Germany GuLun semi-hermetic compressor)					
	Freezing medium	R23/R404A					
	Condensation method	Air-cooled					
	Heater	Nickel-chromium alloy stainless steel tube heater					
	Airflow mode	wide belt forced circulation					

Controller	Operation interface	LCD touch-screen display, English-Chinese switch
	Operation mode	constant operation, procedural operation
	Program memory capacity	120 groups programmable, maximum value of per program is 999 (segment)
	Resolution	temperature: 0.1℃ humidity: 0.1%R.H
	Communication function	RS-232 interface
	Auxiliary function	Upper and lower alarm, automatic diagnosis, alarm display(error causes), timing(Automatically boot, Automatic shutdown)
Water supply	Feed water tank	built-in portable tank
Standard parameter		1 observation window(Double hollow steel glass), 1 test hole, 2 sample layers, 1 box light(fluorescent lamp); 1 water-supply box
Safety parameter		Leakage protection for power supply, anti-dry device, water system protection, high and low temperature limit protection, temperature deviation alarm, protection from overpressure, overload, lack of water, etc.

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