

Constant temperature and humidity test chamber CMS-TH-80CH

Product usage

Simulate product in the condition of climatic environment (high and low temperature operation&storage,temperature loop,high temperature and humidity,low temperature and humidity, moisture condensation etc),inspect product adaptive capacity and character if change. Conform to international standard(IEC、JIS、GB、MIL)Reach international measurement program consistency (including test process,condition and method)



Limited sample

Applicable for below:

Electrician, electronics, components and parts material storage and transportation under the condition of high and low temperature.

compatibility test when use.

Prohibition for below:

Inflammable, explosive, effumability substance test or storage

Corrosive substances test and storage

Biological sample test and storage

Strong electromagnetic emitter sample test and storage

NOTA: las imágenes y características pueden cambiar sin previo aviso.

Cualquier duda o aclaración favor de llamarnos, estamos para SERVIRLE

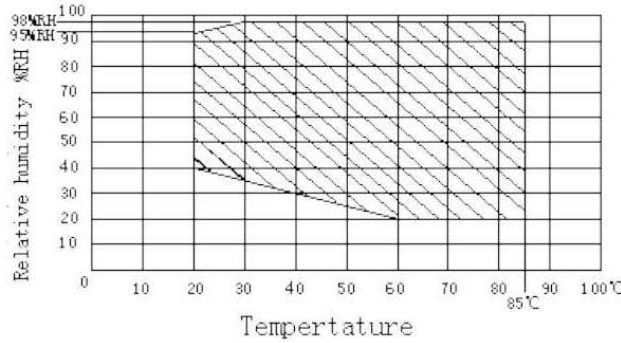
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Structure Performance

Test environment condition	Environment temperature +25℃,relative humidity ≤85% test chamber
Test method	Without sample GB/T 5170.2-1996 temperature testing equipment GB/T 5170.5-1996 humid heat test equipment (Only damp-heat type)
Temperature range	-20℃~+150℃
Temperature fluctuation	±0.5℃
Temperature distribution precision	±2.0℃
Humidity temperature range	20%~98%R.H (Only damp-heat type)
Humidity fluctuations	±3%R.H. (Only damp-heat type)
Humidity distribution precision	±3.0%. (Only damp-heat type)
heating up time	-20℃~+150℃ heating up 4.0℃/min
Cooling time	+150℃~-20℃ Cooling 1.0℃/min
load condition	Test space not exceed 3/4 of total space.No exist heat emission
Product testing frame	double-deck test frame,each layer of bearing 50KG、 available to adjust height
Temperature control range diagram (humiture reference diagram)	 <p>Custom available: 20% HR work in 22℃.</p>

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Test standard	GB/T 2423.2-2001 test A: low-temperature test method
	GB/T 2423.2-2001 test B: high-temperature test method
	GJB 150.3-1986 high-temperature test
	GJB 150.3-1986 low-temperature test
	IEC68-2-2 test B: dry heat
	GB 11158 《High temperature test chamber technical conditions》
	GB10586-1 《Technical conditions of wet and hot test chamber 》
	GB/T 2423.2 《Basic environmental test procedures for electrical and electronic products B: High temperature test method》 .
	GB/T 2423.3 《Basic environmental test procedures for electrical and electronic products Ca: Constant humidity and heat test method》 .etc

Volume, dimension and weight

Marked Volume	80L
Inner box dimension	W400*H500*D400mm
External box dimension	W1050*H1750*D1080mm
Weight (about)	220KG

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Structural feature



Heat preservation structure	Outer wall material: High quality stainless steel 304/ Cold rolled steel plate spray paint Inner wall material: High quality stainless steel 304 Camber heat preservation material : Flame retardant fire resistant rigid polyurethane foaming heat preservation material Flame retardant fire resistant rigid polyurethane foaming.
Air adjustment channel	Centrifugar Fan, air return method: blowing wind above equipment,return wind below heater- evaporator- outfall- temperature sensor.
Test chamber standard configuration	Window 250x320x40mm 3 layer vacuum Anti-explosion grip Hinge:SUS #304 Chamber inner light PL light 11W fairlead: ϕ 50mm 1pcs
Door	Single door,left open,grip on the right.with observation window 250*320 mm floodlight Window frame Door frame anti-condensation electrothermal device
Control Panel	Controller display screen Over-temperature protection Settings
Machine room	refrigerating unit,water pan,drain hole
Power distribution control cabinet	distribution board,exhaust fan
heater	heating system: Fin heat sink tube Stainless steel electric heater air loop method
Humidifier	Boiler humidifying system The return loop of the air duct system
The power cord hole and drain hole	Located on the back of chamber

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Refrigerating system



Refrigeration compressor	 <p>Taikang (France)</p>
Evaporator	 <p>Finned tube heat exchanger (also dehumidifier)</p>
Condenser	Water cooled shell tube sheet heat exchanger
Expansion system	capacity control refrigeration system (capillary)
Evaporative condenser	Stainless steel brazing plate heat exchanger
Refrigerating machine control mode	<p>Control system automatic adjust refrigerator operation condition</p> <p>Evaporating pressure regulating valve</p> <p>Compressor return air cooling loop</p>

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Refrigerant	R404a (environment friendly , The ozone depletion index is 0) 
Controller	TEMI (Korea) 
Temperature and humidity controller	Imported with original packaging,microcomputer color with LCD display touch screen,Chinese show a wide range of perspectives,High contrast function temperature and humidity can also be programmed controller,own 100 group formula 1000 paragraph memory,each paragraph 530Hour 59Min,optional split settings ,with multigroup PID control function.
Controller specification	Precision: temperature $\pm 0.1^{\circ}\text{C}$ +1 digit humidity $\pm 1\% \text{R.H}$ +1digit Resolution: temperature $\pm 0.01^{\circ}\text{C}$,humidity $\pm 0.1\% \text{R.H}$ Temperature slope factor:0.1~9.9 configurable Function of upper and lower standby and alarm Temperature and humidity signal dry wet ball PT100x2. 9 group P.I.D control parameter setting P.I.D automatic calculation Dry and wet ball automatic correction.
Screen display function Degree of capacity and control function	No need button input,Screen direct touch options Temperature and humidity setting (SV) with practical (PV) value show. The current executable program number can be displayed SEGMENTS,remaining time and circle times. Operation cumulative time function Temperature and humidity program set values showed by Graphic curve display.Instant display of program curve execution function. With a separate program editing screen Minimum input for per page is 10 period of humiture and time English and Chinese can be switched. Failure reminder screen display The screen can be backlit adjustment Screen show protection function can be timing.TIMER or manual close

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setting

Available program groups: maximum 100 pcs PATTEN

Usable memory capacity: total 1000 SEGMENTS

Execute commands repeatedly: Each command can reach 9999 times

Programs are dialogue type, have edit, eliminate, insertion etc function

SEGMENTS time setting 0~500 Hour 59Min

Programmable timing control module

Have power off program memory, will start automatically after recharging and executive program function

Program execution time can display graphic curves immediately

Function of automatic adjust refrigeration function

With appointment start and shutdown function. Date and time adjustment function

Button and lock function

Safety Protection Device

Refrigerating system	<ul style="list-style-type: none"> Compressor overheating Compressor overflow Compressor over-pressure Condensing fan overheats Compressor oil pressure protection
Test chamber	<ul style="list-style-type: none"> Adjustable over-temperature Air conditioning channel over-temperature Fan motor overheating
Others	<ul style="list-style-type: none"> Main power phase sequence and phase protection Electric leakage protection Heat and wet dry heat protection Overload and short-circuit protection Over-temperature and power cut protection

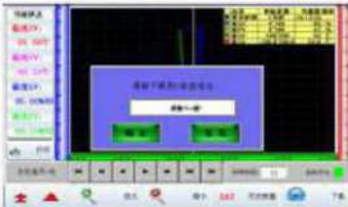

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Other configuration


Sample power control terminal	Relay contact control,AC220V,less than 2A
Main power electric leakage breaker	AC220V,50Hz+protective ground wire
Optional accessories.The following attachments.separate quote,special description need put in contract and technical protocol	
Power Cable	Three-core (single-phase twice wire+protective ground wire) cable 1pcs (according to customer requirements)
Wire lead hole	Wire lead hole diameter $\phi 50\text{mm}$, $\phi 100\text{mm}$ specification,provide custom order if position and quantity don' t exist interference with chamber case
Recorder	control system built-in 3 month data record function,support USB export
USB,RS232	Controller can download historical curve and historical data, historical data saved through Excel format,download according to date.Historical data saved through JPG format,amplification or zoom out according to need, then download   <p style="text-align: center;">Test Curve Download Test data download</p>

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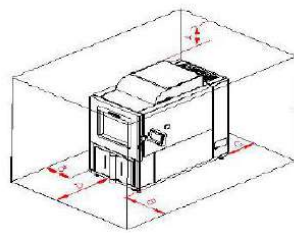
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Remote control system(select purchasing)	 <p>real time monitoring <i>So easy!</i> Connect to the network, use mobile phone, computers, real-time monitoring Make touch clearer and more convenient.</p>
Aggravated type sample frame (selective purchasing)	Load-bearing(50kg/layer,80kg/layer,100kg/layer/200kg/layer accumulated total load not exceed 200kg for sample frame in chamber)
Dimension weight	Maximum size for transportation(not include packaging): refer to outer dimension Maximum transportation weight (not include packaging):refer to weight

Working condition:

Installation site	<p>Flat floor, good ventilation</p> <p>No strong vibration around the equipment</p> <p>No strong electromagnetic field around the equipment</p> <p>No flammability around the equipment, explosive, corrosive substance and dust.</p> <p>Appropriate use and maintenance space is reserved around the equipment, as shown in the following figure:</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>A: minimum 10cm</p> <p>B: minimum 60cm</p> <p>C: minimum 60cm</p> <p>D: minimum 120cm</p> </div>  </div>
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Environmental conditions	Temperature: 5℃~30℃ Relative humidity: ≤85% Air pressure: 86kPa~106kPa
Tap water(Only the moist heat type equipment with pure water machine)	Flow ≥ 200kg/h,pressure 0.1MPa~ 0.25MPa.Tap water conform to GB 5749-1985 hygienic standard for drinking water Note: pure water equipment DN15 external thread connector
Power supplier condition	AC220V+protective ground wire Voltage permissible range: AC (220±10%) V Frequency range is allowed to fluctuate: (50±0.5) Hz Protect ground resistance less than 4 Ω .User provide related capacity of air and power switch.The switch independent use for the equipment.
General power	4.5KW
Maximum current	20ASS
Power switch	32A

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Main parts list :

Item	Name	Brand	Model	Production place
Electric parts	Color touch screen	TEMI (7 inch)	950	Korea
	Platinum temperature Sensor	DIN	Pt100	Finland
	Platinum humidity sensor	DIN	Pt100	Finland
	Window glass	Guang Qiang	280*200	Taiwan
	Nickel-chrome alloy Electric heater	Tai Yi	1.5KW	Taiwan
	Nickel-chrome alloy Humidity heater	Tai Yi	800w	Taiwan
	Coil actuator	Mitsukoshi	90w	Taiwan
	Wind wheel	Guang Shuo	6 inch	Taiwan
	Air burn protector	Rainbow	320	Korea
	Alternating current contactor	Izumi	24V-5J	Japan
	Alternating current relay	Izumi	24V-5J	Japan
	Solid-state relay	Qantas	40DA	America
Refrigeration Parts	Compressor	Taikang	2464	France
	R23,404A refrigerant	Dupont	404A	America
	Air-cooled condenser	Ke Wei Li	1.5P	China-Taiwan joint venture
	Condenser fan	Marl	350mm	Germany
	Evaporator	ShuangLing	4*9	Japan
	Magnetic valve	Omron	2-2	Japan
	Expansion valve	Saginomiya	TX-2N	Japan
	Capillary	Custom-made.		Dongguan
	Stop valve	CASTEL	NAV12S	Italy

Note: short-term shortage of equipment parts and material; We use the same grade of replacement parts; Avoid delay in delivery.

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