

Temperature Control Equipment Manufacturer

A leading global manufacturer with 20+ year experience in research, development & production of temperature control



We offer various types temperature control systems and support customized solutions

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- Heater & Chiller Combo Units
- Temperature Control Units TCUs
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CE



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Siemens Partner



Explosion-proof Equipment Installation Qualification Certificate



High-tech enterprise



Second prize of 2022 Science and technology Jiangsu Innovation and Entrepreneurship Competition



Gazella Company



smParollv ainncde m spedeciuiamli-zseidze sdp



High Quality Development A ward



Boiler Certificate



Industrial Pipeline Installation Certificate



Invention patent

Chamber Test Chamber

Left and right multi-layer test chamber



The integrated system provides high temp, low temp, flow and pressure control requirements for new energy power battery samples.

The double-layer high and low temperature box is used as a high and low temperature testing device for power battery samples, mainly applied in the new energy battery industry. It can directly complete high and low temperature charging and discharging of battery cells or modules, PACK in the test box, or high and low temperature storage functions. In the event of battery failure during testing, explosion-proof pressure relief and fire extinguishing devices are added.

1. Adopting a double-layer box design, the box contains an antifreeze battery cooling system, and the control and testing systems of the two boxes operate completely independently;
2. Explosion proof chains are installed on both the box door and the pressure relief port;
3. The insulation layer of the box is designed with a thickness of 100mm and is composed of insulation materials with low thermal conductivity and high-temperature resistant materials, which can meet the long-term high and low temperature impact requirements from -40 to 100°C;
4. Install explosion-proof pressure relief ports on each box surface, which automatically release pressure when sensing over pressure;
5. The refrigeration system of this device adopts frequency conversion control, combined with hot gas and electric heating control algorithms, for efficient operation and energy saving of more than 20%.



Antifreeze temp reaches -40~100°C
Antifreeze flow control 1-25L/min
The environmental chamber provides -45~100°C

Model		GD-9000-2-B1-KRYCH-4A15W	GD-9000-2-B1-KRYCH-475W	GD-9000-2-B1-KRYCH-4A10W	GD-1000-B1-KRYCH-475
Temperature range		-40°C ~ 100°C Antifreeze			
		-40°C ~ 100°C Chamber			
Antifreeze flow control		1~40L/min ±0.2L/min	1~25L/min ±0.2L/min	1~25L/min ±0.2L/min	1~40L/min ±0.2L/min
Antifreeze pressure		Measure and display the inlet and outlet pressure, as well as the pressure displayed on the touch screen			
Chamber (W*H*D) cm	Upper cavity	220*322*120	220*322*120	220*322*120	Single cavity 100*100*100
	Lower cavity	220*322*110	220*322*110	220*322*110	
Heating power		15kW 14kW	7.5kW 14kW	10kW 14kW	7.5kW 6kW
Cooling capacity Antifreeze	135°C	15kW	7.5kW	10KW	7.5kW
	20°C	15kW	7.5kW	10KW	7.5kW
	0°C	15kW	7.5kW	10KW	7.5kW
	-20°C	10kW	4.5kW	6KW	4.5kW
	-35°C	4kW	1.8kW	2.5KW	1.8kW
Chamber	Heating rate	25 ~ +100°C≥±2°C/Min (No load, average throughout the entire process) (Customizable at 5~25°C)			
	Cooling rate	25 ~ -40°C≥1°C/Min (No load, average throughout the entire process) (Customizable at 5~25°C)			
Antifreeze temp control accuracy		±0.1°C			
Temperature uniformity		≤±1°C (No load)			
Circulating air volume		5000m³/h			2500m³/h
Control mode		Segmented Fuzzy PID Algorithm Control			
Communication protocol		CAN/TCP/RS485			
Temperature feedback		Internal temperature of equipment enclosure, condensation temperature of refrigeration system, suction temperature of compressor, cooling water temperature (for water-cooled equipment)			
High temp cooling module		Can cool down from a high temperature of 100 °C			
Circulating pump		Magnetic drive pump			
Compressor		Brand variable frequency compressor			
Evaporator		Plate/fin heat exchanger			
Refrigeration accessories		Emerson/Danfoss brand dry filters, oil separators, etc			
Throttle method		Electronic expansion valve			
Refrigerant		R125/R404A			
Safety protection		Phase sequence failure protector, freezer overload protection; High pressure switch, overload relay, thermal protection device and other safety protection functions.			
water-cooled condenser		Shell and tube heat exchanger			
Operation panel		10 inch color touch screen			7 inch color touch screen
Antifreeze interface		ZG3/4			ZG3/8
Cooling water 20 °C		25m³/H	20m³/H	20m³/H	7m³/H
Dimensionsmm		240*560*285	240*560*285	240*560*285	120*205*205
Bearing		1500kg	1500kg	1500kg	120kg
Weight		4600kg	4200kg	4200kg	600kg
Power supply		380V 50HZ			
Insulation material		Glass fiber cotton&polyurethane			
Inner box material		SUS304 stainless steel brushed plate			
External material		Cold rolled steel plate+spray coating			
Execution standards		GB/T 2423.1;GB/T 2423.2;GB/T 2423.3;GB/T 2423.4;GB/T 5170.2;GB/T 5170.5; GB/T 11158;GB/T 10589;GB/T 10592; GB/T 10586;IEC 60068			

Chamber Test Chamber

Constant temp and humidity test chamber

This series of test chambers can simulate various temperature and humidity environments, suitable for conducting high and low temperature tests, wet heat tests, etc. on products. This test chamber has an extremely wide temperature and humidity range and high control accuracy. Can meet the national standards GB and IEC related testing standards. The programmable constant temperature and humidity test chamber is used to test the heat resistance, cold resistance, dry resistance, and moisture resistance of various materials. Suitable for quality testing of electronic, electrical, communication, instrument, vehicle, plastic products, metal, food, chemical, building materials, medical, aerospace and other products.



Model	GD-500-C-WS	GD-1000-C-WS
Inner box size (W * H * D) cm	90*90*65	100*100*100
Temperature range	-80°C~+150°C	
Heating rate	(No load) (+20~150 °C) 2 °C/min (Customizable at 5~25 °C)	
Cooling rate	(No load) (+20~-70 °C) 1 °C/min (Customizable at 5-25 °C)	
Temperature uniformity	≤± 1 °C (unloaded)	
Humidity fluctuation	±3.0%RH(>75%RH); ±5.0%RH(≤75%RH)	
Temperature fluctuation	≤±1°C	
Humidity accuracy	≤±2.0%RH	
Temperature accuracy	≤±0.1°C	
Inner box material	SUS304 stainless steel	
Outer box material	Cold rolled steel plate+spray coating	
Insulation material	Glass fiber cotton&polyurethane	
Window size cm	30*45	45*49
cryogen	R404A/R23	
Test hole	φ100mm×1	
Heater	Electric heating	
Condenser	Air cooling: finned heat exchanger Water cooling: plate/sleeve/shell and tube heat exchanger	
Air circulation	Extended shaft motor, stainless steel centrifugal fan blades	
Cooling method	Cascade refrigeration	
compressor	Brand variable frequency compressor	
Control method	Segmented Fuzzy PID Algorithm Control	
Communication protocol interface	TCP/RS485 (CAN customizable)	
Operation panel	7-inch color touch screen, temperature curve display \ EXCEL data export	
Sensors	PT100 A-grade platinum resistor	
Protector	Heater dual temp protection, refrigeration system protection, and electrical overcurrent and overload protection, etc	
Power Supply	380V±10% 50HZ	
Outer box size (W * H * D) cm	115*217*185	125*237*230

Chamber Test Chamber

Rapid temperature test Chamber

This test chamber is suitable for environmental stress screening tests. By conducting environmental stress screening on products, it accelerates the discovery of design defects and improves product reliability. Many industrial fields have recognized that high-speed temperature cycling tests can identify unreliable systems that have entered the production testing phase. It has become a standard method for improving quality, effectively extending the normal working life of products.



Model	GD-500-B-KS	GD-1000-B-KS	GD-500-C-KS	GD-1000-C-KS
Inner box size (W*H*D) cm	-40°C~+150°C		-80°C~+150°C	
Temperature range	90*90*65	100*100*100	90*90*65	100*100*100
Heating rate	(+20~+150°C)A : 5°C/min (Customizable at 15~25°C) ,5°C/min Adjustable nonlinearity			
Cooling rate	(Carrying idler) (+20~-40°C)5°C/min		(Carrying idler) 10°C/min (Customizable at 15~25°C)	
Temperature uniformity	≤±1°C (Carrying idler)			
Temperature fluctuation	≤±0.5°C			
Temperature accuracy	≤±0.1°C			
Window size cm	30*45	45*49	30*45	45*49
cryogen	R404A/R23			
Test hole	φ100mm×1			
Heater	Electric heating			
Condenser	Air cooling: finned heat exchanger Water cooling: plate/sleeve/shell and tube heat exchanger			
Air circulation	Extended shaft motor, stainless steel centrifugal fan blades			
Cooling method	Cascade refrigeration			
compressor	Brand variable frequency compressor			
Control method	Segmented Fuzzy PID Algorithm Control			
Communication protocol interface	TCP/RS485 (CAN customizable)			
Operation panel	7-inch color touch screen, temperature curve display \ EXCEL data export			
Sensors	PT100 A-grade platinum resistor			
Protector	Heater dual temp protection, refrigeration system protection, and electrical over current and over load protection, etc			
Outer box size (W*H*D) cm	110*212*175	120*232*225	110*212*175	120*232*225
Power Supply	380V 50HZ			
Texture of material	Insulation material: glass fiber cotton&polyurethane; Inner box material: SUS304 stainless steel; Outer box material: cold-rolled steel plate+spray coating			
Execution standards	GB/T 2423.1;GB/T 2423.2;GB/T 2423.3;GB/T 2423.4;GB/T 5170.2;GB/T 5170.5; GB/T 11158;GB/T 10589;GB/T 10592; GB/T 10586;IEC 60068			

Chamber Test Chamber

Two-box test chamber

This battery test chamber is specifically designed to meet the testing needs of different types of power batteries. Based on the standard environmental chamber, safety protection functions are equipped according to different severity levels to ensure the safety of personnel, property, and equipment to the greatest extent possible.



Model	GD-300-2-B1-LX
Inner box size (W*H*D) cm	Upper chamber: 85 * 60 * 60 Lower chamber: 85 * 60 * 60
Temperature range	-40 °C~100 °C (-70 °C can be customized)
Heating rate	(No load) (+20 °C~150 °C) 1 °C/min (Customizable at 5-25 °C)
Cooling rate	(No load) (+20 °C~-40 °C) 1 °C/min (Customizable at 5-25 °C)
Temperature uniformity	± 1 °C (unloaded)
Temperature fluctuation	±0.5°C
Temperature accuracy	±0.1°C
Window size cm	300*450
cryogen	R404A
Test hole	φ100mm×1
Heater	Electric heating
Condenser	Air cooling: finned heat exchanger Water cooling: plate/sleeve/shell and tube heat exchanger
Air circulation	Extended shaft motor, stainless steel centrifugal fan blades
Cooling method	Single-stage refrigeration
compressor	Brand variable frequency compressor
Control method	Segmented Fuzzy PID Algorithm Control
Communication protocol interface	TCP/RS485 (CAN customizable)
Operation panel	7-inch color touch screen, temperature curve display \ EXCEL data export
Sensors	PT100 A-grade platinum resistor
Protector	Heater dual temp protection, refrigeration system protection, and electrical over current and over load protection, etc
Outer box size (W*H*D) cm	105*195*172
Power Supply	380V 50HZ
Texture of material	Insulation material: glass fiber cotton&polyurethane; Inner box material: SUS304 stainless steel; Outer box material: cold-rolled steel plate+spray coating
Execution standards	GB/T 2423.1;GB/T 2423.2;GB/T 2423.3;GB/T 2423.4;GB/T 5170.2;GB/T 5170.5; GB/T 11158;GB/T 10589;GB/T 10592; GB/T 10586;IEC 60068



Chamber Test Chamber

Double-chamber impact test chamber

The test basket of the double-chamber cooling and heating shock test chamber is mobile when conducting high and low temperature shock tests. The high and low temperature shock conversion is mainly completed by moving the test basket up and down in the high temperature zone and the low temperature zone. The impact recovery time of the double-chamber type is shorter than that of the three-chamber type.



Model	GD-200-2-B-CJ	GD-400-2-B-CJ
Basket size (W * H * D) cm	60*60*60	90*65*70
Impact temperature range	Low temperature : -40°C~0°C ; High temperature : +60°C~+150°C	
Heating rate of preheating zone	(No load) 5 °C/min (customizable for 10-25 °C)	
Cooling rate of pre cooling zone	(No load) 2 °C/min (customizable for 5-25 °C)	
Pre cooling area Pre cooling range	-10°C~-55°C	
Preheating area preheating range	+60°C~+180°C	
Residence time	≥30min	
Recovery time	≤ 5 minutes to recover to within ± 2 °C	
Temperature fluctuation	≤1°C	
Residence time	≥30min	
Basket conversion time	≤10S	
Window size cm	300*450	
Cryogen	R404A/R23	
Heater	Electric heating	
Condenser	Air cooling: finned heat exchanger Water cooling: plate/sleeve/shell and tube heat exchanger	
Air circulation	Extended shaft motor, stainless steel centrifugal fan blades	
Cooling method	Cascade refrigeration	
Compressor	Brand variable frequency compressor	
Control method	Segmented Fuzzy PID Algorithm Control	
Communication protocol interface	TCP/RS485 (CAN customizable)	
Operation panel	7-inch color touch screen, temperature curve display \ EXCEL data export	
Sensors	PT100 A-grade platinum resistor	
Protector	Heater dual temp protection, refrigeration system protection, and electrical overcurrent and overload protection, etc	
Dimensions (W * H * D) cm	149*219*257	179*239*257
Power Supply	380V 50HZ	
Texture of material	Insulation material: glass fiber cotton&polyurethane; Inner box material: SUS304 stainless steel; Outer box material: cold-rolled steel plate+spray coating	
Execution standards	GB/T 2423.1、GB/T 2423.2、GJB 150.3A、GJB 150.4A、GB/T 5170	

Chamber Test Chamber

Left and right multi-layer test chamber



Model		GD-518-2-C-DC
Inside dimensions (W*H*D)	Left cavitycm	60*124.5*65
	Right cavitycm	60*124.5*65
Temperature range		-80°C~150°C
Heating rate		(No load) -40 °C →+125 °C 1 °C/min (customizable for 5-25 °C)
Cooling rate		(No load) 125 °C → -40 °C 1 °C/min (customizable for 5-25 °C)
Temperature uniformity		± 1 °C (unloaded)
Temperature accuracy		±0.1°C
cryogen		R404A/R23
Heater		Electric heating
Condenser		Air cooling: finned heat exchanger Water cooling: plate/sleeve/shell and tube heat exchanger
Air circulation		Extended shaft motor, stainless steel centrifugal fan blades
Cooling method		Cascade refrigeration
compressor		Brand variable frequency compressor
Control method		Segmented Fuzzy PID Algorithm Control
Communication protocol interface		TCP/RS485 (CAN customizable)
Operation panel		7-inch color touch screen, temperature curve display \ EXCEL data export
Sensors		PT100 A-grade platinum resistor
Protector		Heater dual temp protection, refrigeration system protection, and electrical overcurrent and overload protection, etc
Outer box size (W*H*D) cm		409*236*175
Power Supply		380V 50HZ
Insulation material		Glass fiber cotton&polyurethane
Inner box material		SUS304 stainless steel
Outer box material		Cold rolled steel plate+spray coating
Execution standards		GB/T 2423.1;GB/T 2423.2;GB/T 2423.3;GB/T 2423.4;GB/T 5170.2;GB/T 5170.5; GB/T 11158;GB/T 10589;GB/T 10592; GB/T 10586;IEC 60068



Chamber Test Chamber

Walk in test chamber

This test chamber is suitable for low temperature, high temperature, high and low temperature changes, constant humidity and heat, high and low temperature alternating humidity and heat tests of complete machines or large parts. The size and function of the studio can be changed according to user requirements. The block-type box is beautiful and square in shape, and the scientific duct design can meet the needs of different customers.



model	GD-8000-C-BR
Inner box capacity	8000L
Inner box size (W * H * D) cm	200*200*200
Outer box size (W * H * D) cm	224*242*350
Temperature range	-80°C~+150°C
Temperature uniformity	±1 °C (unloaded)
Temperature fluctuation	≤1°C
Temperature accuracy	±0.1°C
Heating rate	(No load) 1 °C/min adjustable nonlinearity; (Customizable at 5-25 °C)
Cooling rate	(No load) 1 °C/min adjustable nonlinearity; (Customizable at 5-25 °C)
cryogen	R404A/R23
Test hole	φ100mm×1
Heater	Electric heating
Window size cm	450 * 490 (2 pieces)
Condenser	Air cooling: finned heat exchanger Water cooling: plate/sleeve/shell and tube heat exchanger
Air circulation	Extended shaft motor, stainless steel centrifugal fan blades
Cooling method	Cascade refrigeration
compressor	Brand variable frequency compressor
Control method	Segmented Fuzzy PID Algorithm Control
Communication protocol interface	TCP/RS485 (CAN customizable)
Operation panel	7-inch color touch screen, temperature curve display \ EXCEL data export
Sensors	PT100 A-grade platinum resistor
Protector	Heater dual temp protection, refrigeration system protection, and electrical overcurrent and overload protection, etc
Power Supply	380V 50HZ
Insulation material	Glass fiber cotton&polyurethane
Inner box material	SUS304 stainless steel plate
Outer box material	Cold rolled steel plate+spray coating
Execution standards	GB/T 2423.1、GB/T 2423.2、GJB 150.3A、GJB 150.4A、GB/T 5170