

Automatic Fire Extinguishing Dual-Temperature Zones High and Low Temperature Chamber

1. Product model		
1.1 Material code	WGDW-400L2-40C-380V-12U-B	
1.2 Equipment appearance	NEWARE	
	The picture is for reference only, subject to the actual product	
1.3 Instruction	Automatic fire extinguishing type adds safety relief port, safety guard chain, smoke detection, smoke exhaust and fire extinguishing functions, better protection for the inner box	
2. Product application		
Application scenarios 3. Sample restrictions	It is suitable for the adaptability test of electrical, electronic and other products, parts and materials used in aviation, automobile, scientific research and other fields when stored, transported and used in high and low temperature environment. It is a reliable testing equipment for cell performance testing of new energy production enterprises and research institutes This test equipment is prohibited: Test or storage of samples of inflammable, explosive and volatile substances Testing or storage of corrosive material samples Test or storage of samples from strong electromagnetic sources Testing and storage of radioactive material samples Testing and storage of samples of highly toxic substances	
	Tests or storage of samples of the above substances or objects during testing or storage	
4. Volume, size and weight		
4.1 Nominal volume	225L×2	
4.2 Inner box size (single temperature zone)	W600 mm×D500 mm×H750 mm	
4.3 External dimensions	W1110 mm×D 1800mm×H2050 mm (excluding the height of protrusions, fire extinguishing devices will cause a local increase in the width dimension of the equipment)	
4.4 Weight	About 720 kg	

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5. Performance	
5.1 Test environment	The ambient temperature is +25°C, the relative humidity is less than or equal to 85%, and
conditions	there is no sample in the test chamber (no load)
5.2 Test method	GB/T 5170.2-2017 Temperature test equipment
5.3 Temperature range	-40°C~150°C
5.4 Temperature fluctuation	≤±0.5°C (no load, temperature stable)
5.5 Temperature deviation	±2.0°C (no load, temperature stable)
5.6 Heating time	+20°C→+150°C ≤60 min (no load, average nonlinearity
5.7 Cooling time	+20°C→-40°C ≤60 min (no load, average nonlinearity)
	GB/T 2423.1-2008 Low temperature test method Ab
5035	GB/T 2423.2-2008 High temperature test method Bb
5.8 Meet the test method	GJB 150.3A-2009 High temperature test
	GJB 150.4A-2009 Low temperature test
	GB/T 10592-2008, technical conditions for high and low temperature test chamber
6. Structural characteristic	es
	Exterior wall material: high quality cold rolled steel plate, surface spray treatment
C11 12 1	Inner wall material: stainless steel plate SUS304
6.1 Insulation envelope	Insulation material: hard polyurethane foam + aluminum silicate cotton (insulation
structure	thickness 100mm)
	Door insulation material: rigid polyurethane foam + aluminum silicate cotton
6.2 Air conditioning	Centrifugal fan, heater, evaporator (also dehumidifier), etc., C-type air supply and
channel	return air mode
	Lead hole (single temperature zone): φ50mm / 4
6.3 Standard configuration of test chamber	(Paired with soft rubber plug, located on the right side of the box)
	Wheels: 4 (with adjustable feet)

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	Observation window (single temperature zone): multi-layer hollow electric heating film heating anti-fog observation window (located on the door) Visible range: about 330 x 450 mm (width x height), glass with electric heating de-icing, can provide the best observation line of sight; Lighting (single temperature zone): 1 Cell tray (single temperature zone): high temperature resistant electric insulation cell tray 2 layers, load-bearing (evenly distributed): 20kg/layer (the total load of samples in the box does not exceed 80kg)
6.4 Doors	Single hinge door (left hinge, right handle), with observation window and lighting lamp Window frame/door frame anti condensation electric heating device, double layer silicone rubber sealing strip Two safety protection chains are provided on both sides of the left and right sides of the single door
6.5 Control panel	Controller display, over-temperature protection setter, etc
6.6 Refrigeration unit room	Refrigeration unit, water tray, drainage hole, condenser, etc
6.7 Distribution control cabinet	Total power supply leakage circuit breaker, distribution board, exhaust fan, Ethernet physical interface 1 Temperature and humidity controller, AC contactor, circuit breaker, thermal relay Temperature limiting protector, solid state relay and transformer
6.8 Heater	Stainless steel finned heater Heater control mode: contactless periodic pulse width modulation, SSR (solid state relay)
6.9 Power cable hole and drainage hole	Located on the side or back of the box
6.10 Safety pressure relief port	Located on the left side of the box, it opens automatically when the test space pressure exceeds the set pressure
7. Refrigeration system	
7.1 Working mode	Mechanical compression cascade refrigeration method

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7.2 Refrigeration compressor	France imports "Taikang" fully enclosed compressor or Emerson gas turbine compressor	
7.3 Main refrigeration	Throttle valve, pressure controller, drying filter,	
components	Cooling solenoid valve, reservoir, oil separator, etc	
7.4 Evaporator	Finned tube heat exchanger (also used as dehumidifier)	
7.5 Condenser	Air-cooled type: finned tube heat exchanger	
7.6 Throttle device	Throttle valve / capillary tube	
7.7 Refrigeration control mode	The control system automatically adjusts the operating condition of the refrigeration unit according to the test conditions Compressor return gas cooling circuit	
7.8 Refrigerant	R404A (ozone depletion index 0)/R23	
7.9 Welding process	Nitrogen protection welding	
8. Control system		
8.1 Controller model	Professional temperature controller	
8.2 Display	High color LCD touch screen	
8.3 Operation mode	Program mode, set value mode	
8.4 Setting method	Color touch human-computer interaction, Chinese/English interface	
8.5 Control mode	Anti-integral saturation PID BTC balance temperature control mode	
8.6 Temperature measurement method	Grade A armored PT100 sensor	
8.7 Display accuracy	Temperature: 0.01°C; Time: 1min	
8.8 Over temperature protection	Independent overtemperature protector, when the studio temperature exceeds the temperature set by this protection device, it will protect the shutdown and send an alarm signal	
9. Battery testing system and test interconnection		
9.1 Testing equipment	5V30A64CH (Series 4) is located on the side of the housing	
9.2 Control unit	2	
9.3 Network switch	1	

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Step 1: Open the software interface



Step 2: Select the test chamber



9.4 Upper computer programming control interface (see the equipment random materials for details)

Step 3: Find the test chamber to be set up



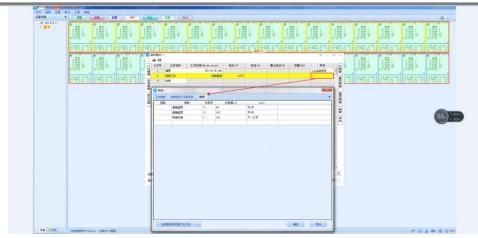
Step 4: Set the control temperature of the test chamber



Step 5: Set the work step control conditions

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	THE WARE RESIDENCE DESIGNED.	
10. Safety protection device	e	
10.1 Refrigeration system	Compressor overheating, compressor overload, compressor overpressure	
10.2 Test chamber	Adjustable overtemperature protection and abnormal protection of the circulating fan in the box	
10.3 Smoke alarm	It is equipped with a smoke alarm, which will automatically alarm when it senses smoke	
10.4 Exhaust device	When the smoke detector detects that the smoke concentration exceeds the standard, it will start the exhaust fan	
10.5 fire extinguishing device	Each device is equipped with one 8L carbon dioxide empty bottle for fire extinguishing, It can realize manual or automatic fire extinguishing function and is installed on the side of the equipment Note: Due to the limitation of logistics and transportation, the carbon dioxide fire extinguishing agent needs to be filled by the user in a local professional gas company (cylinder joint model: QF-2A, outlet thread: G5/8, inlet thread: PZ27.8)	
10.6 Other	Power supply phase sequence and phase loss protection, leakage protection, ove short circuit protection, power failure recovery protection	
11. Other configurations		
11.1 Power cable	One five-core (three-phase four-wire + protective earth wire) cable (the specific specification is selected according to the contract requirements)	
11.2 Total power leakage circuit breaker	Three phase four wire + protective earth wire	
11.3 Data	Provide Chinese user manual and Chinese technical data	
12. Transportation (the test chamber is integral and transported as a whole)		
12.1 Dimensions	Maximum transport size (excluding packaging): "see 4.3 Dimensions"	

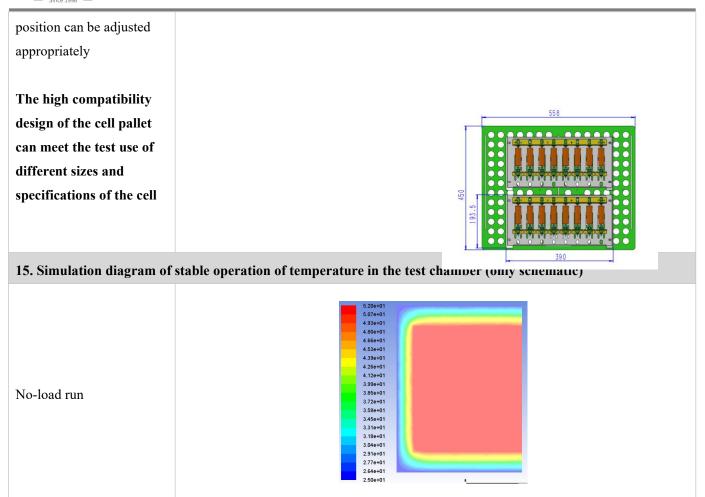
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— Since 1998 —		
12.2 Weight	Maximum transport weight (excluding packaging): "see 4.4 Weight"	
13. Conditions of use: The user shall guarantee the following conditions (the installation of power supply lines		
shall be the responsibility of	of the user)	
13.1 Installation site	The ground is flat and conforms to GB50209-2002 specification: flatness is less than 5mm/2m Good ventilation, no strong vibration around the equipment There is no strong electromagnetic field around the equipment There is no flammable, explosive, corrosive substances and dust around the equipment Appropriate space for use and maintenance is left around the equipment, as shown in the figure: A: no less than 80cm B: no less than 60cm C: not less than 70cm D: not less than 50cm	
13.2 Environmental conditions	Temperature: 5°C~35°C; Relative humidity: less than or equal to 85%; Air pressure: 86kPa~106kPa	
13.3 Power supply conditions	AC (380±38) V (50±0.5) Hz three-phase five-wire system The grounding resistance of the protective earth wire is less than 4Ω Power supply: The user is required to configure the corresponding capacity of air or power switch for the equipment at the installation site, and this switch must be independently supplied for the use of the equipment Power distribution: (7kW (temperature box) +6kW (test equipment)) x 2 Maximum current: 26A×2	
13.4 Others	Opening the door of the test chamber during the test will cause temperature fluctuations in the chamber; if the door is opened repeatedly or kept open for a long time during the test or the test sample emits moisture, it may cause the heat exchanger of the refrigeration system to freeze and fail to work normally	
14. Cell specifications and	placement method	
14.1, cell specification	Cylindrical cell single temperature zone 5V30A32CH (double temperature zone 64CH)	
14.2 Cell placement method	Four floors in the single temperature zone (eight floors in the double temperature zone)	
14.3 Cell tray form and cell fixing method (cell tray can be customized according to needs)	Note: 1. The single temperature zone box is equipped with four standard cell	
The cell pallet is made of imported high temperature resistant electric insulation material, and the height	pallets, and the double temperature zone box is equipped with eight pallets; 2. The cylindrical cell fixture panel is placed flat on the cell tray without 7/8	

<mark>being fixed.</mark>





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