



## **WGDW-150-40 High-Low Temperature Chamber** Chamber (Image for reference only) **Outer Dimension** W750mm × D1350mm × H1600mm Weight Around 330kg ☐ Coin cells (40 channels per tray) **Tray Selection** (Image for reference only) ☐ Cylindrical cells (16 channels per tray) ☐ Custom / pouch cells \* Please provide the battery dimension to your sales engineer





Chamber Dimensions		
Items	Values	
Inner Volume	150L	
Inner Space Dimension	W500mm × D500mm × H600mm	
Lead Holes	Ø 100mm*2, 1 on each sides	
Load Bearing	10kg/tray	
Performance		
Items	Values	
Temperature Range	-40~150°C	
Fluctuation	≤ ± 0.5°C (max. difference between different test points)	
Deviation	± 2°C (max. difference of the same test point in a period of time)	
Heating Time	20°C→150°C ≤ 60 mins (No load, average non-linearity)	
Cooling Time	20°C→-40°C ≤ 60 mins (No load, average non-linearity)	
Refrigeration System		
Items	Values	
Compressor	Mechanical compression cascade refrigeration method	
Cooling Method	Air cooling	
Refrigerant	R404A (Ozone depletion index is 0)	
Insulation Materials	Polyurethane foam + glass wool	
Insulation Thickness	100mm	
Electrical Connection		
Items	Values	
Power Cable	1 cable (5-core, 3-phase-4-wire + protective ground wire)	
Leakage Circuit Breaker	3-phase-4-wire + protective ground wire	
Switch	A power switch of correspongding capacity should be configured to the chamber independently.	
Input Voltage	AC(380±38)V or AC(208±21)V   50Hz or 60Hz	
Protective Ground Wire	Resistance less than $4\Omega$	





Communication		
Items	Values	
Host computer communication	TCP/IP protocol	
Communication port	Ethernet port	
Tester communication baud rate	1M	
Host communication baud rate	10M~100M adaptive	
Communication setup	Set up a LAN (local area network) through switches and routers	
Operating system	Windows 7/8/10 64bit	
Operation and storage environment requirement		
Items	Values	
Operation Environment Temp.	5~35°C	
Operation Environment Humidity	≤85% RH	
Atmospheric Pressure	86~106kPa	
Installation Site	Level ground, flatness≤5mm/2m.  Good ventilation.  No strong vibration around the device.  No strong electromagnetic fields around the device.  No flammable/explosive/corrosive substances &dust.  There should be enough room for the door to be opened and closed.  There should be no objects directly in front of the door.	
Health and Safety Protection		
Items	Values	
Refrigeration	Compressor overheating protection Compressor overloading protection Compressor over-pressure protection Condensing fan overheating protection	
Over-Temperature	Independent over-temperature protector.  When the working temperature exceeds the set temperature, the device will shut down automatically and send an alarm signal.	
Test Chamber	Adjustable over-temperature / abnormal protection of circulating fan within the chamber	
Smoke Alarm	The smoke alarm will automatically go off when detected smoke.	



Smoke Extraction Device	When the smoke concentration exceeds the set standard, the extraction fan will be activated.	
Others	Total power phase sequence & phase loss protection Leakage protection Overload & short circuit protection Power failure recovery protection	
Note	Opening the door while testing will cause temperature fluctuations.  During the test, if the door is opened frequently or left open for a long time, or if the test sample emits moisture, it may cause the heat exchanger of the refrigeration system to frost or freeze and cause issue.	
Add-on Protection (Optional)		
Items	Values	
☐ Explosion-proof and automatic extinguisher	Add explosion-proof chains on the door. Add pressure relief port, which is located at the left side of the chamber, automatically released when test pressure exceeds the set limitation. Upgrade component parts to explosion-proof strength.  The fire extinguishing device configured for each equipment is an 8L carbon dioxide empty bottle, which is installed on the side of the equipment and can be used as manual extinguisher or automatic fire extinguishing system.  (Note: Due to logistics and transportation restrictions, users need to find a local professional gas company to fill the carbon dioxide fire extinguisher (cylinder connector model: QF-2A, export thread: G5/8, import thread: PZ27.8)	
☐ Humidity Control	程度 (%RH)  100  90  80  70  60  50  40  10 20 30 40 50 60 70 80 90 温度 (℃)  Relative humidity deviation: ± 3.0% RH (Humidity >75%RH); ± 5.0% RH (Humidity ≤75%RH).	