

## WGDW-225-2-40 High-Low Temperature Chamber

**Chamber**  
(Image for reference only)



**Outer Dimension**

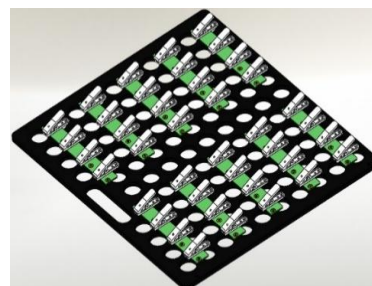
W1200mm × D2000mm × H2050mm

**Weight**

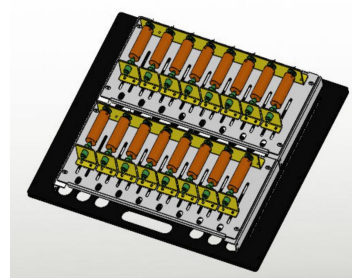
Around 690kg

**Tray Selection**  
(Image for reference only)

☐ Coin cells  
(40 channels  
per tray)



☐ Cylindrical cells  
(16 channels  
per tray)



☐ Custom / pouch cells  
\* Please provide the battery dimension to your sales engineer

| Chamber Dimensions      |                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------|
| Items                   | Values                                                                                      |
| Inner Volume            | 225L *2                                                                                     |
| Inner Space Dimension   | (W600mm × D500mm × H750mm) *2                                                               |
| Lead Holes              | Ø 100mm*8, 4 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) / R23                                                    |
| 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 corresponding 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 4Ω                                                                     |
| Maximum Power           | (7kW) *2                                                                                    |

| 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                             | <p>Level ground, flatness≤5mm/2m.</p> <p>Good ventilation.</p> <p>No strong vibration around the device.</p> <p>No strong electromagnetic fields around the device.</p> <p>No flammable/explosive/corrosive substances &amp; dust.</p> <p>There should be enough room for the door to be opened and closed.</p> <p>There should be no objects directly in front of the door.</p> |
| Health and Safety Protection                  |                                                                                                                                                                                                                                                                                                                                                                                  |
| Items                                         | Values                                                                                                                                                                                                                                                                                                                                                                           |
| Refrigeration                                 | <p>Compressor overheating protection</p> <p>Compressor overloading protection</p> <p>Compressor over-pressure protection</p> <p>Condensing fan overheating protection</p>                                                                                                                                                                                                        |
| Over-Temperature                              | <p>Independent over-temperature protector.</p> <p>When the working temperature exceeds the set temperature, the device will shut down automatically and send an alarm signal.</p>                                                                                                                                                                                                |
| Test Chamber                                  | Adjustable over-temperature / abnormal protection of circulating fan within the chamber                                                                                                                                                                                                                                                                                          |

| <b>Smoke Alarm</b>                                     | The smoke alarm will automatically go off when detected smoke.                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Smoke Extraction Device</b>                         | When the smoke concentration exceeds the set standard, the extraction fan will be activated.                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Others</b>                                          | <p>Total power phase sequence &amp; phase loss protection</p> <p>Leakage protection</p> <p>Overload &amp; short circuit protection</p> <p>Power failure recovery protection</p>                                                                                                                                                                                                                                                                                                        |
| <b>Note</b>                                            | <p>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.</p>                                                                                                                                                                                       |
| <b>Add-on Protection (Optional)</b>                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Items                                                  | Values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <input type="checkbox"/> <b>Explosion-proof</b>        | <p>Add explosion-proof chains on the door.</p> <p>Add pressure relief port, which is located at the left side of the chamber, automatically released when test pressure exceeds the set limitation.</p> <p>Upgrade component parts to explosion-proof strength.</p>                                                                                                                                                                                                                    |
| <input type="checkbox"/> <b>Automatic Extinguisher</b> | <p>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.</p> <p>(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)</p> |