MHW-25-S Constant Temperature Chamber

Technical Agreement

Neware Technology Limited

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Product Name:
Desktop Constant Temperature Chamber

P.S. Image is for reference purpose only.

Model Code	**MHW-25-S**
Application	Coin cells or pouch cells (mA test range)
Prohibitions	Testing or storage of : - flammable, explosive and volatile material samples; - corrosive substances; - strong electromagnetic emission source; - radioactive material samples; - highly toxic substances; - samples that may produce the above substances or objects during testing or storage.
Dimensions	
Nominal Volume	25L
Inner Dimension	W280 mm×D250 mm×H330 mm
Outer Dimension	W360 mm×D450 mm×H500 mm
Net Weight	Around 40kg
Performance	
Testing Environment	Room Temperature above 25℃ Relative humidity≤85%
Temperate Range	15～60℃
Fluctuation	≤1℃ (No load, or during stable temperature)
Deviation	±2.0℃ (No load, or during stable temperature)
Heating Time	25℃→60℃ ≤40 min (No load, average non-linearity)
Cooling Time	25℃→15℃ ≤60 min (No load, average non-linearity)

Structure	
Insulation Envelope	Outer wall material: High quality cold rolled steel plate with surface spray paints. Inner wall material: Stainless Steel SUS304 Insulation material: Polyurethane foam
Air-conditioning Channel	Axial Fan, Semiconductor cooling/heating module
Standard Configuration	Door: insulated tempered glass + Frames 1 lead hole (with soft rubber stopper): ϕ50mm Cell Tray: electrically insulated (load bearing: 2kg/tray) Illumination: LED
Control Panel	Control buttons
Air Conditioning Unit	Semiconductor cooling/heating module
Electrical Control System	
Controller	LED digital display + button controller
Setting Method	Button controller
Control Method	Forced circulation ventilation. The system controls the output of the semiconductor refrigeration/heating module through the PID results, in order to achieve a dynamic balance.
Communication	Ethernet
Interconnection with Cell Testing Equipment	
Hardware Connection	The upper computer, battery testers, and thermal chamber are connected with cables to enable data communication in between. 
Power Cable	
Cables	Single phase + protective ground wire

Conditions of Use		
Installation Site	Good ventilation; No strong vibration around the device; No strong electromagnetic fields around the device; No flammable/explosive/corrosive substances & dust around the device.	
Environmental Conditions	Temperature: 25℃±3℃; Relative humidity: ≤85%; Atmospheric pressure: 86kPa～106kPa	
Power Supply Condition	Input: AC(220±10%)V /50Hz Max. current: 1A	Input: AC(110±10%)V /60Hz Max. Current: 2A
Precautions	Opening the door while testing will cause temperature fluctuations.	

Battery Specifications and Placement	
Cell Specification	Coin cells or pouch cells (mA test range)
Cell Placement	- Maximum 8 channels on each tray - 2~4 trays in total
Battery Trays (customization available)