

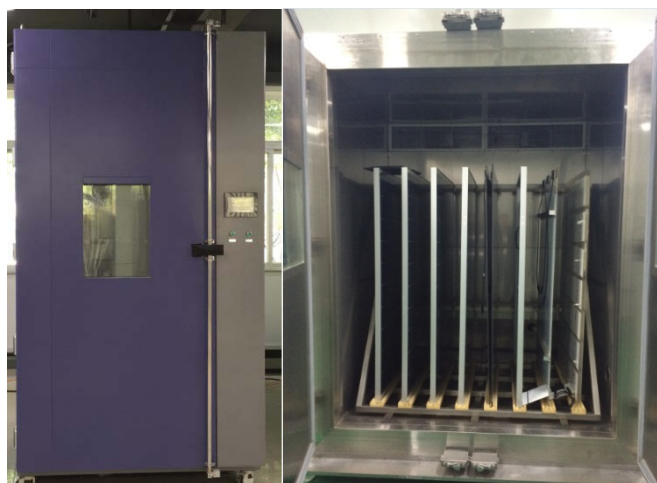
## Damp-Heat Chamber Specification

### (I) Name of equipment

Damp-Heat Chamber

Type: ZW-8000-DH

\* the system is in accordance with the IEC61215-2016 MQT13 & IEC61730-2016 MST53 test standards in solar energy industry(DH)



(Reference picture)

### (II) Equipment performance parameters

1. Temperature range: RT+10℃ ~ +100℃
2. Temperature Accuracy:  $\leq \pm 1^\circ\text{C}$ .
3. Humidity range: 70-95%RH.
4. Humidity Accuracy:  $\leq \pm 3.0\% \text{RH}$ .
5. Temperature uniformity:  $\leq 2.0^\circ\text{C}$ .
6. Humidity uniformity:  $\pm 3.0\% \text{RH}$  (when humidity  $> 75\% \text{RH}$ );  $\pm 5.0\% \text{RH}$  (when humidity  $\leq 75\% \text{RH}$ ).

### (III) Product structures

#### 1. Dimension

Inner dimension (W\*H\*D mm) : 1800\*2400\*1500mm

Cabinet dimension (W\*H\*D mm): 3200\*3100\*2900

The Height of the bottom to the ground(mm): 200~450mm;

The load capacity of the chamber is 1000kg.

#### 2. Weight: About 2000 KG

#### 3. Equipment movement and fixation

The equipment installs 10# steel channel base and mobile bearing wheel, the level of which can be adjusted.

#### 4. Cabinet door:

1) Two-door with window, and the dimension is 950mm (W) \* 2700mm (H);

2) A stainless steel water pan is installed in the bottom of the door.

3) Window with the dimension of 400mm (W) \* 400mm (H), and heating mist eliminator glued

inside the window.

4)Explosion-proof lights are installed in the cabinet.

## 5. Material

### 1)Inner material

A fully welded 1.2mm SUS304 stainless steel sheet

The tower structure is adopted to strengthen the inner of the cabinet.

A drainage tank is installed in the bottom plate

### 2)External material

1.5mm cold-rolled steel plate by powder coating.

### 3)Heat insulation material

Environmental glass fiber with the thickness of 150mm

### 4)Module holder

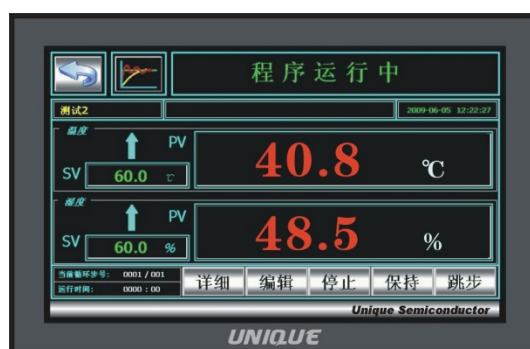
A set of module holder can hold 25 battery panels(2100mm\*1200mm\*50mm) which could be vertically put. The rack on the holder are dielectrically and thermo insulation to each other and to the chamber designed.



## (IV) Control system

### 1). Temperature and humidity controller

Temperature and humidity controller: 7" and 2GB memory. Ethernet/USB for communication.



### (V) Data logger

Temperature of every modules could be monitored. Data logger could be connected with PC and controlled remotely via LAN.

Temperature sensor(PT100 4 wired):

Temperature range: -50~200℃;

Precision: ±1%

The data are inputted into the CSV document format when recording them, and it can be opened in EXCEL format for facilitating data processing.

### (VI) Spare parts and special tools

Spare Parts & Consumables List

S/N	Name	Brand	Type	Quantity
1	PT100	Maserac	JSF. 251512	2
2	Fuse	CHNT	5A	4

### (VII) Ambient condition for equipment operation (power requirement)

1. Ambient temperature: 5℃ ~ +35℃
2. Ambient humidity: ≤85%
3. Power requirement: AC415, 50HZ, 3-phase 5-wire
4. Installed power: 36KW
5. Water supply for humidification: pure water with the pressure of 2~4 kg f/c m<sup>2</sup>, diameter: 2 in. with the flow of 50L/h
6. Drainage: The pipe for the drainage water should be at least 16mm.

### (VII) Delivery attached documentation

1. Product Operating Manual (including operation instructions, maintenance operating specification, mechanical structure diagram and electrical schematic diagram).
2. Delivery Inspection Report, Warranty Card and Qualification Certificate
3. Software installing CD and U-disk
4. Calibration certification by ISO17025 LAB

### (IX) Installation, commissioning and training

1. The installation and commissioning should be completed within two week.
2. Carry out on-site trainings for test standard, equipment operating principles and daily maintenance.

### (X) Warranty period

The free warranty period will last for one year after the acceptance of the equipment and the spare parts will be provided for free within the warranty period. When the warranty period expires, labor cost, travel expense and Spare parts fees should be paid.

