

High and low temperature humidity-heat explosion-proof Test Chamber

Custom solutions

Explosion-proof high and low temperature explosion-proof Test Chamber has safety reliability, test data accuracy, stable performance characteristics, mainly for all kinds of secondary battery and fuel cells and other new energy products in research and development, production, inspection and so on each link of the test to provide constant temperature and high and low temperature alternating and other test environment and test conditions, also can do high and low temperature routine test, low temperature storage, for the product in the given environment of behavior performance evaluation. For easy to burn, easy to explode, with a certain explosive danger products to provide a safe test environment, to avoid the inspection of the explosion, combustion caused injury to workers.



Technical characteristics

Performance:

Type:PSW-800BD

Temperature range: 70°C~+150°C. (air-cooled)

Humidity range: 5% to 98% RH (programmable)

Temperature fluctuation: $\pm 0.5^{\circ}\text{C}$

The iation of humidity: $\pm 2.0\% \text{ RH}$

Temperature deviation: $\pm 2.0^{\circ}\text{C}$

Humidity deviation: $\pm 2.5\%$

Temperature uniformity: $\pm 1.5^{\circ}\text{C}$

Uniformity of relative humidity: $\pm 3.0\% \text{ RH}$

Heating speed: $-60^{\circ}\text{C} + 85^{\circ}\text{C}$ (nonlinear empty load, approximately $3^{\circ}\text{C} / \text{min}$)

Heating rate: $85^{\circ}\text{C} -60^{\circ}\text{C}$ (nonlinear empty load, $1^{\circ}\text{C} / \text{min}$)

Power: 18KW

Dimensions (mm)	W	H	D
Use full	310	1100	290
Overall	1448	2210	1090

Structural features:

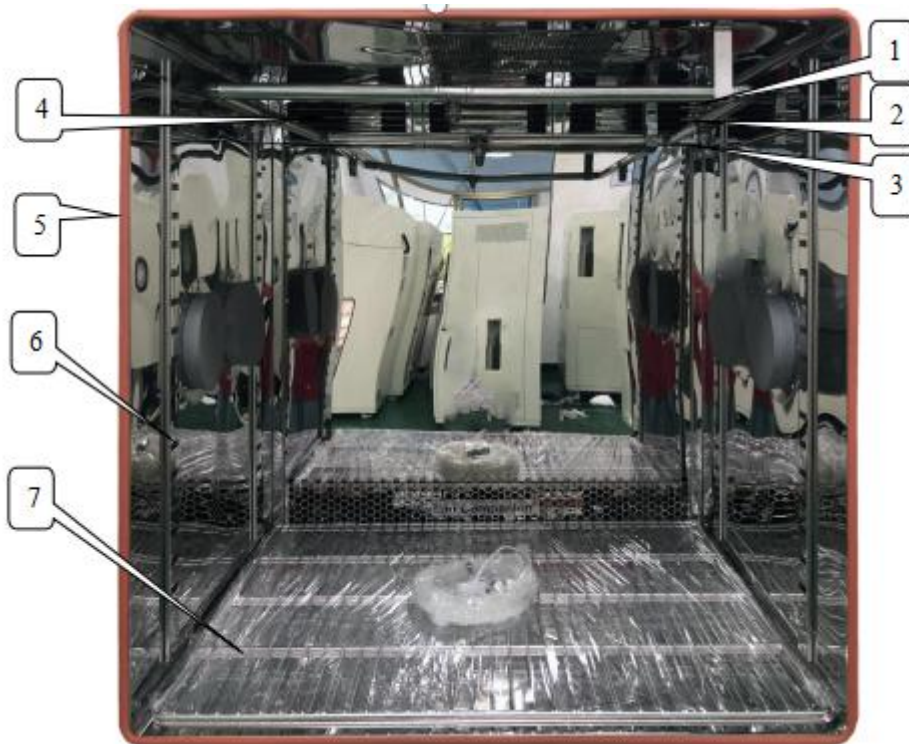
explosion-proof equipment

- 1、Add the pressure relief valve and observe the window protection device to prevent the sample explosion from causing damage to people;
- 2、 Add a gas detection device to detect inflammable, explosive and harmful gases to prevent accidents in the bud;
- 3、 Automatic fire extinguishing, exhaust. Add an automatic fire extinguishing device to automatically put out the fire in case of fire to reduce losses;

Temperature and humidity, electric heat circulation system

- 1、 Electric heating circulation system: humidity mining special moisture-proof and heat dissipation design, stainless steel extended shaft circulation motor
- 2、 Circulating fan: withstand high / low temperature aluminum alloy multi-wing circulating fan
- 3、 Air guide plate design: adjustable air guide plate design, effectively improve the uniformity of temperature and humidity distribution
- 4、 Temperature electric heater control mode: using electronic sensor, without changing wet cloth
- 5、 Humidity electric heater control mode: balanced humidity adjustment P.I.D + P.W.M + S.S.R main and auxiliary double U type humidity electric heating

Lab Companion®



Internal test structure

number	name	illustrate
1	Thermoelectric resistance sensor	For panel overtemperature induction inner box temperature
2	Thermoelectric resistance sensor	For sensing the controller compartment temperature
3	Electronic-type humidity sensor	Used to control the induction inner box humidity
4	air outlet	Test the circulation air outlet
5	gasket cement; sealant	Insulate the heat and prevent air leakage
6	Sample rack track	For the fixation of the sample holder
7	specimen holder	For placing the test products

