



AtmoExplorer Temperature & Humidity Chamber

The AtmoExplorer is used for testing the performance of various materials under different environmental conditions. It is suitable for testing the heat resistance, cold resistance, dry resistance, wet resistance, and other properties of materials. The testing chamber is applicable for quality testing of products, such as electronics, electrical appliances, mobile phones, communication devices, instruments, vehicles, plastic products, metals, food, chemicals, construction materials, medical equipments, and aerospace products.

AtmoExplorer

Temperature & Humidity Chamber



- **Wide range of applications**

It can simulate the environment of high temperature, low temperature, high humidity, and low humidity, and is suitable for testing requirements in various fields and industries such as electronics, materials research, medicine, automobiles, food, etc.

- **Excellent performance on control precision and uniformity of temperature and humidity**

Temperature and humidity control precision: $\pm 0.5^{\circ}\text{C}$; $\pm 3\% \text{RH}$
 Temperature and humidity uniformity: $\pm 2^{\circ}\text{C}$; $\pm 3.0\% \text{RH}$

- **Achieve heating and cooling quickly**

When unloaded, the AtmoExplorer can achieve heating from room temperature to 100°C within 30 minutes. It can also achieve cooling from room temperature to -20°C within 60 minutes.

- **Intuitive and practical screen, easy to operate**

AtmoExplorer has a 7-inch large touch screen that displays information in both Chinese and English. The set values (SV) and perform values (PV) of temperature and humidity are displayed directly, as well as the currently executing program number, segment information, remaining time, and number of cycles.

- **Stable operation, originated from high-quality insulation materials and humidifiers**

The heating element is made of spring-type nickel-chromium wire, and the humidifier is a UL-shaped humidifier in the form of stainless steel electric steam generation.

- **High quality refrigeration system and refrigeration auxiliary parts**

Tecumseh fully hermetic high efficiency compressor from France, solenoid valve from Japan, and pressure controller & oil separator are international famous brand.

- **A variety of safety protection**

The burn prevention switch, the high-pressure protection for the compressor, the overheating protection for the compressor, the over current protection for the compressor, the no-fuse switch protection, the short-term water shortage alarm and the long-term water shortage shut-down protection.

- **Various sizes can be customized**

Such as 80L, 150L, 225L, 408L, 800L, 1000L



Power

380V 50HZ 20A 3 4 wire



Weight

295kg



Dimension

225L 1330*940*1670mm (D*W*H)

Specifications

Temperature range	$-20^{\circ}\text{C} \sim +150^{\circ}\text{C}$
Humidity range	20-98%RH
Temperature and humidity control accuracy	$\pm 0.5^{\circ}\text{C}$; $\pm 3\% \text{RH}$
Temperature and humidity distribution uniformity	$\pm 2^{\circ}\text{C}$; $\pm 3\% \text{RH}$
Heating time temperature to	100°C , within 30 minutes
Cooling time temperature down to	-20°C , within 60 minutes
Testable area	500*750*600mm (D*W*H)

Controller specifications

Accuracy temperature	$\pm 0.1^{\circ}\text{C} + 1 \text{digit}$
humidity	$\pm 1\% \text{RH} + 1 \text{digit}$
Degree of Reolution	temperature $\pm 0.1^{\circ}\text{C}$, humidity $\pm 0.1\% \text{RH}$
Temperature slope	0.1~9.9 can be set

- Display the current program number, number of segments, remaining time and number of laps.
- Temperature and humidity program setting value is displayed in a circular curve, with instant display of program curve execution function.
- Separate program editing screen, at least 4 temperature and time steps can be input on each page.