



Xi'-An LIB environmental simulation industry



South America distributor:
www.GtemCell.com
 ITALIA

Temperature test chamber

This product series is widely used in the temperature variation tests, cold resistance tests and storage with low-temperature in the fields of aerospace, aviation, electronics, instrument, electric products, materials, parts and components and equipment to analyze and evaluate the property and performance of the samples under the simulated conditions

Model	T-100	T-225	T-500	T-800	T-1000
Workroom dimensions(cm)	45*45*50	50*60*75	80*70*90	80*100*100	100*100*100
Exterior dimensions(cm)	105*88*144	105*102*200	132*132*217	147*152*231.5	167*152*231.5
Temperature rang	-20°C ~ +150 °C				
Low type	I : -40°C II: -60°C III: -70°C				
Temperature fluctuations	± 0.5 °C				
Temperature deviation	± 2.0 °C				
Heating rate	RT ~ + 150 °C more than 40 minutes (about 3 °C / min)				
Cooling rate	RT ~ - 40 °C more than 60 minutes (about 1 °C / min)				

Structure characteristics

1. Equipment structure takes up stainless steel plate plus (41090) power for hull painting. It not only has good profile, but also has fine corrosion resistance.
2. It utilizes imported closed-type compressor unit imported from Europe and USA, which has solid and durable structure and is enduring and can greatly enhance service property and life of the equipment; it takes up advanced energy-saving design, which can save electric power by 30%, save water by 20%, and it uses HFC refrigerant that will not harm human body and nature, you can conduct test in safe way;
3. It has advanced and innovative control theory, it integrates three control systems of PLC, HMI and SOC in fine way. Control is correct by 100%, and you can experience the novel control

feeling; 4.It utilizes TEMI880 touch-control colored screen as operating interface of TEMI from Korea and most powerful and reliable PLC and special modules in the industry circle. 50 programs and 2500 steps are provided for user to make setting/storage and running;

5.It utilizes protection module for safe voltage, the withstand voltage can reach 500V. After energizing the equipment, the equipment will not be burned and it can protect the equipment by 100%.

6.It takes up high-sense FastAIT monitoring and refrigerating system imported and achieves effective control and management for refrigerant volume;

7.It has automatic safety protection switch, which has high sensitivity, can detect any state, cut off protection and give alarm in shortest time and assure safety of the personnel and equipment;

8.It utilizes the advanced USB storage device in the industry. It is the only one for using the USB interface for storing data. It has not only large storage capacity and fast transmission rate, but also is portable, has great supporting property and is convenient.;

9.It can separately raise temperature, reduce temperature, humidify and dehumidify, it utilizes unique BTHC flat constant temperature and humidity regulating mode;

10.The radio tele-monitoring system takes up IPC/SCADA architecture LAN network interface, it can connect to more than 200 equipments at the same time, and it can avoid the complex wiring and eliminate the regional limit;

11.It has unique air supply and circulating system, which can avoid dead angle of air flow in the chamber and improve the uniformity degree of product temperature and humidity.

Control system:

TEMI880 touch-type temperature programmable controller

Operating interface: LED display

Temperature and humidity controller: touch-type LED controller

Setting mode: touching type

Running mode: setting-up running and programmed running

Program: 100 groups in 1000 sections

Resolution: temperature: ± 0.1 °C;

Input: platinum thermal resistance

Control mode: PID control

Communication function: LAN network interface

Additional function: alarm and display function, power-off protection function, upper limit temperature alarm function, timing function (auto startup and auto stop), self-diagnosis function, curve record and display function, paperless record, USB data export, tele-monitoring and so on.

It can execute 100 STEP X 10 PATTEM mode.

Each section can be grouped and executed in crossing way.

The execution time for each section can be set up between 0-999H plus 59min.

For setting up for each group, it can circulate within 1-999 in part or entirely for option.

In execution, it can select group circle picture or section execution picture and can know the remaining time for execution.

It has power-off function. After power recovery, it can complete the remained test.

It can select single-section control or multi-section programmable control.

The screen has backlight time control function and it can adjust the backlight brightness.

For executing single-section control, it can change the execution value at will. The memory-type multi-function control has automatic control output functions, such as heating heater and humidifying heater for electromechanical solenoid valve for different groups of refrigerating compressors and so on.

·Safety device

Independent over-temperature protection, water shortage protection, over-current protection, refrigerant high-pressure protection switch, over-current circuit breaker, earth leakage protection and so on.

·Operation ambient temperature: +5°C ~ +30°C

·Power supply : AC220±10%V 50±0.5Hz single-phase double-wire + protective grounding wire/
AC380±10%V 50±0.5Hz three-phase four-wire+ protective grounding wire

·Accessory

1 cable hole (Φ 50....) cover, 2 sets of shelf, 2 protector tubes, 1 overflow water tube, 1 copy of operating specification

·Optional accessory:

recorder, tele-monitoring software

Note:

1. The products above can be customized according to demands of the clients;

2. The technical parameters above are the data obtained under room temperature of 20°C and non-load condition



