



**Xi'-An LIB environmental simulation industry**



*South America distributor:*

***www.GtemCell.com***  
ITALIA

### **Ozone climatic test chamber**

This series are mainly used to evaluate the ozone ageing resisting performance of rubber and the protective efficacy of the anti-ozonant so as to take the effective ozone-ageing resisting measures to extend the life span of the rubber products. The whole ozone generating and capture process is performed in an airtight loop, which guarantees the safety of people. Static strain and dynamic strain are both considered. And an interface with the conventional chemical test of ozone concentration is provided to help

Model	OC-100	OC-250	OC-500	OC-010
Workroom dimensions (cm)	45*45*50	50*60*75	70*80*90	100*100*100
Exterior dimensions (cm)	115*90*165	120*110*190	135*128*210	165*148*220
Power	4.0(KW)	4.5(KW)	4.5(KW)	6.5(KW)
Temperature range	0°C~70°C			
Humidity range	≥65%R.H			
Ozone density	50~1000 pphm			
Temperature fluctuation	± 0.5°C			

#### ***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 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 Fast AIT 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 can separately raise temperature, reduce temperature, humidify and dehumidify, it utilizes unique BTHC flat constant temperature and humidity regulating mode;

9.Humidity range  $\geq 65\%R.H$ , after installing the dehumidifying device;

10.It has 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:**

PID programmable controller

Operating interface: LED display

Setting mode: touching type

Running mode: setting-up running and programmed running

Program: 100 groups in 1000 sections

Resolution: temperature:  $\pm 0.1\text{ }^{\circ}\text{C}$ ; humidity:  $\pm 1\%RH$

Input: platinum thermal resistance

Control mode: PID control

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.

