

## Dust-free high-temperature oven 1875C

### Custom solutions

Dust-free high-temperature, also known as dust-free industrial oven, clean industrial oven, is a special clean dust-free drying equipment that provides a high-temperature purification environment. Dust-free oven is one of the commonly used equipment in various aging tests, which is widely used in electronics, computers, communications and other fields, and is suitable for product testing and production with requirements for dust-free grade.



The air in the box is closed and self-circulating, and is repeatedly filtered by the high-temperature high-efficiency air filter (class 100), so that the oven working room is in a dust-free state. The dust-free oven studio is made of stainless steel.

## Technical characteristics

### Performance:

Type: OVEN-1875C

Temperature range: RT~200°C

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

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

Temperature uniformity:  $\leq 2^\circ\text{C}$

Increase temperature rate requirements:  $3.5^\circ\text{C}/\text{min}$  ((Nonlinear empty load))

Dust-free level: 100

Working volume: 1875L

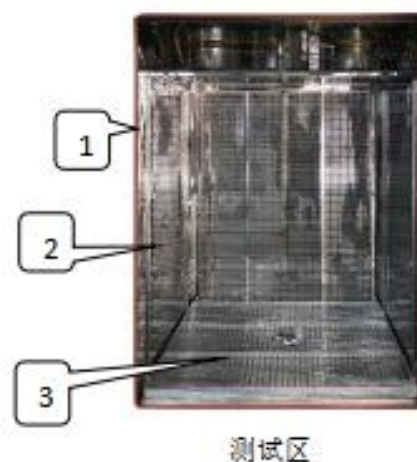
Dimensions (mm)	w	h	d
Use full	1250	1500	1000
Over all	1500	2340	1480

### Dust-free high-temperature oven features:

1. Accurate temperature control and high accuracy. Due to the use of a unique heating mode and electronic control system, can maintain the temperature of the whole test area high uniform, much higher than similar products;
2. The temperature setting range of the equipment is wide and continuously adjustable. It can be set within room temperature ~200°C. If customers have special requirements, they can design higher temperature products;
3. Real-time display of the temperature in the test area, accurate monitoring and clear monitoring;
4. The system protection functions are complete to ensure safe, long-term and stable fault-free operation;
5. Beautiful appearance, convenient construction, short construction period;
6. Good sealing, can maintain efficient work;
7. Use high-quality dust-free mesh to filter the dust produced by the environment and products.

### Room structure:

number	Name	Illustrate
1	Sealant	Heat preservation and prevention of air leakage
2	Sample holder track	Used to hold the sample holder
3	Sample holder	Place the test product



# Lab Companion®

## ▶ operational principle

### ▶ air conditioning

1. Air regulation mode: forced ventilation internal circulation balance temperature regulation;
2. Air circulation device: built-in air conditioning device, circulating air duct, long axis axial flow fan;
3. Heating method: high-quality nickel-chromium alloy electric heater.

### TT&C system

1. Temperature measurement: PT100 Platinum resistance;
  2. Control device: use the intelligent digital temperature controller
- Temperature control mode: automatic set two-bit PID control

Temperature setting mode: make the digital setting in the controller

Temperature display mode: the set temperature and the measured temperature are displayed in the controller

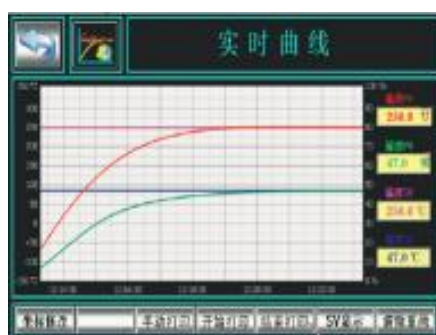
The product has a self-setting function to ensure that the temperature is constant at each set point

The product has a linear compensation function to avoid the inconvenience of display errors

3. The product is separately equipped with an overtemperature protection instrument, which is used to set the upper limit alarm of the working temperature to prevent the damage caused to the test product and test box due to failure



Display the interface



Temperature profile

4. Operation mode: constant operation

### ▶ safety precautions

1. Over temperature protection setting: triple over temperature protection setting  
Set temperature of the over temperature dial plate = set temperature + 15°C. When the temperature in the box exceeds the set temperature of the over temperature dial, the buzzer in the box alarms, the box is in standby state, and it should be reused after manual reset.
2. Over temperature alarm: when the product in the box continues to heat up and exceeds the temperature set by the internal parameters of the controller, the buzzer in the box will alarm, which should be reset manually before reuse.
3. Anti-dry burning protector: set near the heating pipe. When the heating dry burning exceeds the temperature set of the protector, the equipment alarms and stops.
- 4, the heater short circuit;
5. Drum-blast motor overload

.....  
[www.labcompanion.cn](http://www.labcompanion.cn)

Lab Companion Industrial Park - Chang ping Town - Dong guan City-Guangdong Province - China

Tel:+86 400 628 2786

e-mail:info@lab companion.cn