

# Lab Companion

**Precision Oven**

**OVEN-324**

**Custom Solution**

**Brief Introduction**



Our large-capacity high-temperature precision ovens can be customized with various optional functions, sizes/indicators/capacity, etc. according to user requirements. The maximum temperature limit optional 300°C. Mainly used in electronics industry, electrolytic capacitors, keyboards, computers, communications, hardware, chemical, automotive parts and so on.

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## Particularities:

- \* High-strength, high-reliability structural design - to ensure the high reliability of the equipment;
- \* The inner chamber material is SUS304 stainless steel - anti-corrosion, strong hot and cold fatigue function, and long service life;
- \* High density polyurethane foam insulation - ensures minimal heat loss;
- \* Plastic-sprayed surface - to ensure the lasting anti-corrosion function and appearance life of the equipment;
- \* High-strength temperature-resistant silicone rubber sealing strip - ensures the high sealing performance of the equipment door;
- \* A variety of optional functions (test hole, shelf, etc.) meets the user's needs for various functions and tests;
- \* Environmentally friendly refrigerants - to ensure that the equipment is more in line with your environmental protection requirements;
- \* Triple protection mechanism.
- \* USB interface and Ethernet communication function enable the communication and software expansion function of the device to meet various needs of customers.

## Technical Features:

Dimensions (mm)	Width	Height	Depth
Useful	600	900	600
Overall	1020	1600	900

### **Temperature range**

From room temperature to +200°C

## Homogeneity and Regulation:

### **Temperature fluctuation:**

$\leq \pm 0.5^\circ\text{C}$

### **Temperature deviation:**

$\leq \pm 2.0^\circ\text{C}$

### **Temperature uniformity:**

$\leq 2^\circ\text{C}$

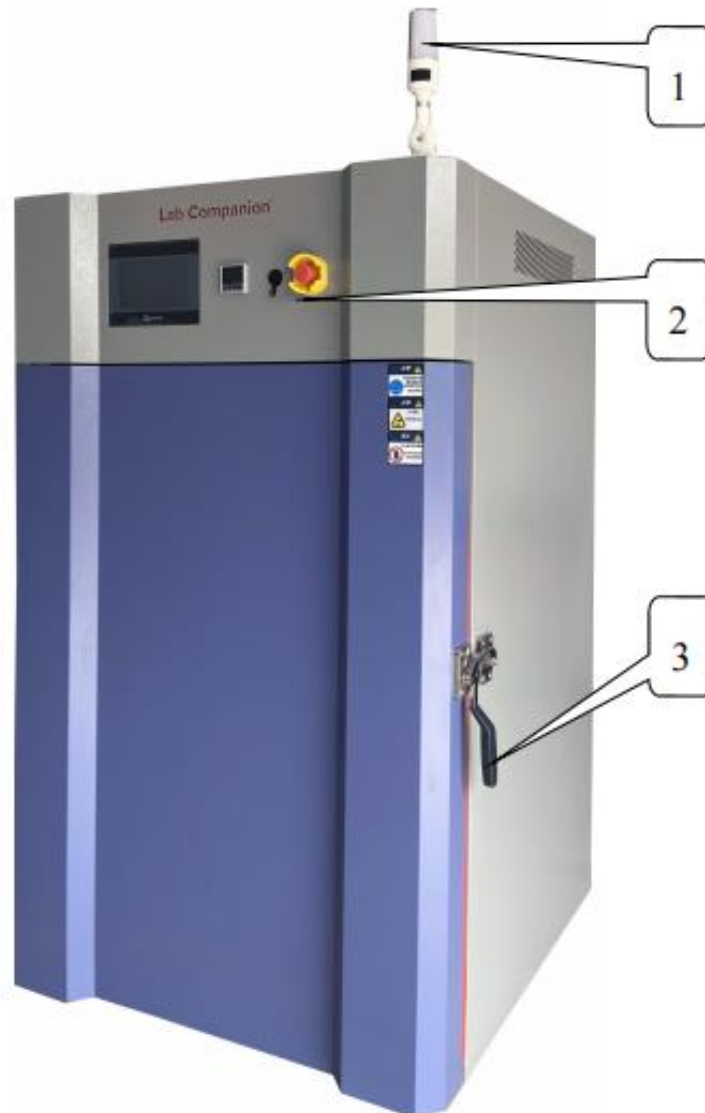
### **Temperature rise time:**

The average rising rate of the whole process is 3.5°C/min (under no load)

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## Appearance Introduction and Description:

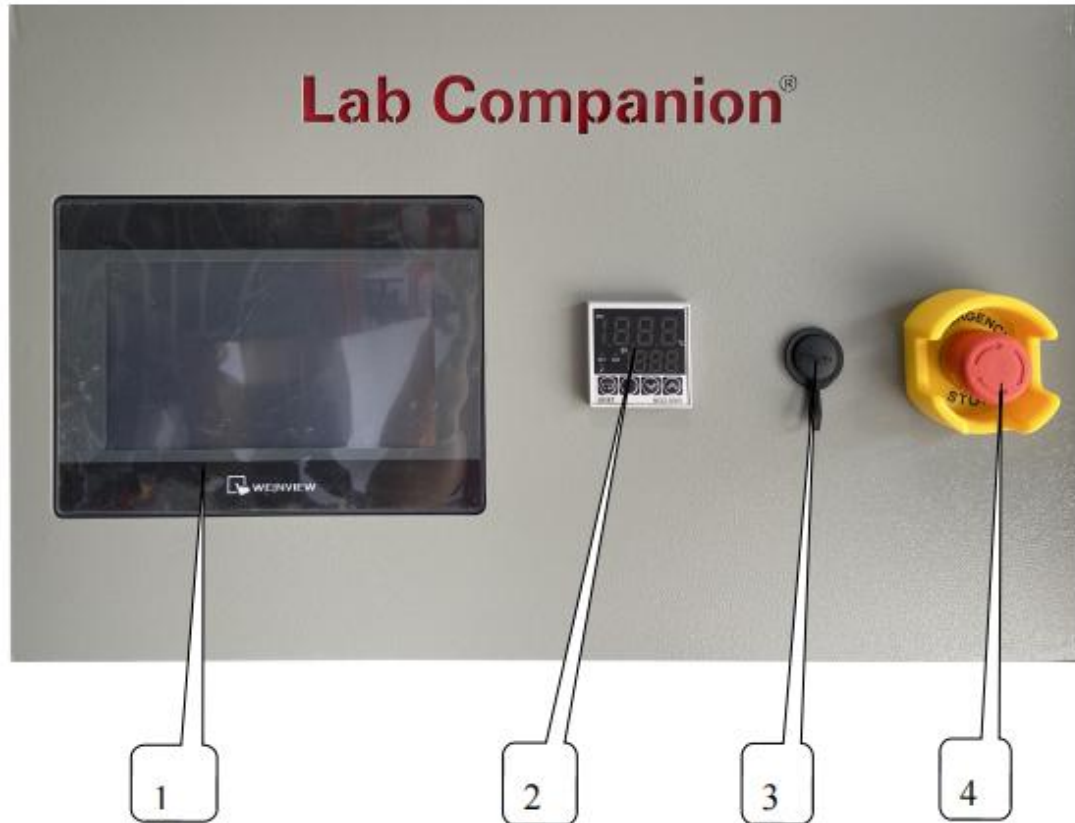
### 1. Front and side of the machine



Number	Name	Illustration
1	Three color lights	Green running, yellow standby, red fault
2	The control panel	Operation panel for machine operation
3	The door lock	Pull the vertical door to open it

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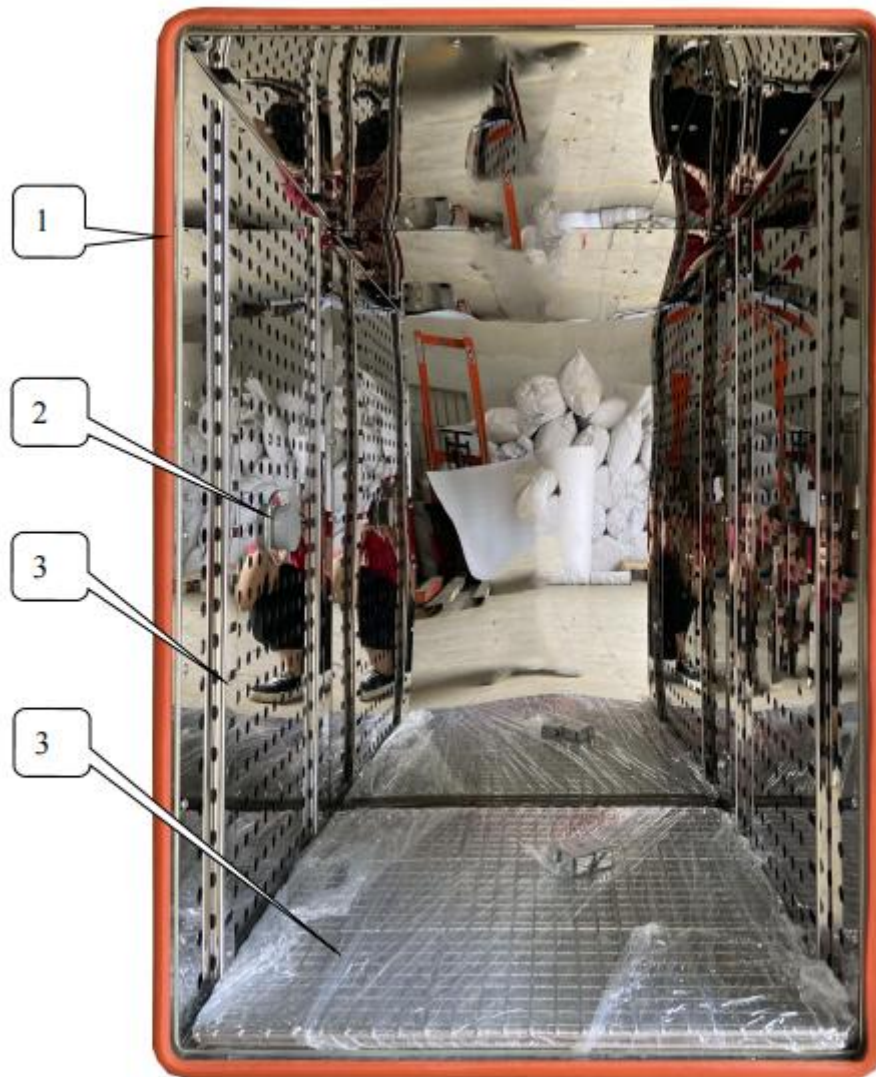
## 2. Control panel



Number	Name	Illustration
1	Controller	Touch screen programmable controller
2	Overtemperature protection	Set the upper temperature limit in the test area
3	USB interface	Used to copy curves or document-related data
4	Scram switch	Used to connect the device and cut off the power supply

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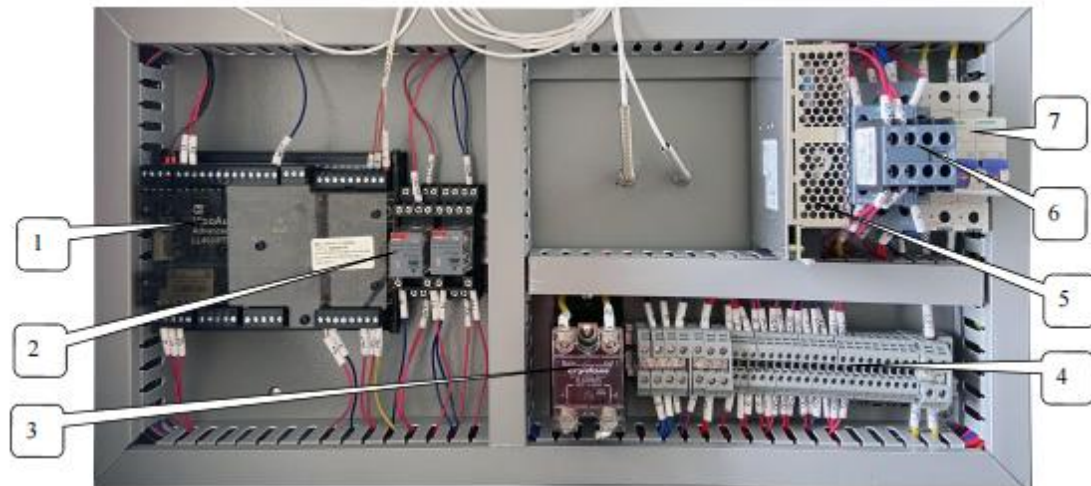
## 3. Test area



Number	Name	Illustration
1	Sealant	Heat preservation and air leakage prevention
2	Test hole	The product live test can be connected to the external power supply from the test hole
3	Sample rack track	Used to secure the sample holder
4	Sample holder	Used to place test products

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## 4. Power distribution room



Number	Name	Number	Name
1	Temperature controller	5	DC power supply
2	Intermediate relay	6	Auxiliary contact
3	Solid-state relay	7	Circuit breaker
4	Connector terminal		

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## Test Report:

Temperature°C Stationing	85°C	125°C	200°C
<b>A</b>	85.4	124.9	199.7
<b>B</b>	85.6	125.1	199.9
<b>C</b>	85.3	125.4	200.1
<b>D</b>	85.0	125.6	200.3
<b>E</b>	85.1	125.4	200.4
<b>F</b>	85.4	124.9	200.7
<b>G</b>	85.8	125.4	200.5
<b>H</b>	86.1	125.7	200.4
<b>O</b>	86.0	125.9	200.1
<b>Temperature deviation</b>	1.1	0.9	0.7
<b>Temperature uniformity</b>	1.1	1.0	1.0

## Distribution map:

