Lab Companion

Dust-Free High-Temperature Oven   Oven-CC-520

Custom Solution

Brief Introduction

Dust-free industrial ovens are mainly aimed at TP, LCD and other industries with high requirements for baking environment, and are widely used in material aging, solid silver slurry, ink-drying and other manufacturing processes. It can be designed and customized according to the actual production requirements of customers. The air in the box is closed and self-circulating, and is repeatedly filtered by the high temperature resistant high efficiency air filter (grade 100), so that the oven working room is in a dust-free state. Dust-free oven studio is of stainless steel construction. The temperature of the workplace is automatically controlled by the temperature controller, and there is an automatic constant temperature and time control device, and equipped with an overtemperature automatic power failure and alarm circuit, reliable control and safe use.

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Particularities:

1. Full week argon welding, high temperature resistant silica gel breaking, SUS304 # stainless steel electric heating manufacturer, micro dust produced by the guard machine itself;

2. High temperature resistance, under the premise that the clean level of the working site reaches class 1000, the laboratory can effectively filter the micro dust and reach the clean level of class 100;

3. Vertical type, reduce the site occupation area, with high efficiency.

Technical Features:

Dimensions (mm)	Width	Height	Depth
Useful	650	1000	800
Overall	1240	1790	1080

Homogeneity and Regulation:

Temperature range
RT+10℃ ～ +300 ℃
Common temperature of use:
200℃
Dust-free rating:
1000
Temperature fluctuation:
≤±0.5℃（test with no load）
Temperature uniformity:
≤2.0℃（test with no load）
Temperature deviation:
≤2.0℃（test with no load）
Temperature rise time:
3.0℃/min (RT+10℃ ～ +210 ℃)
Air circulation device:
left and right convection air circulation
Controller model:
Q8 color touch screen

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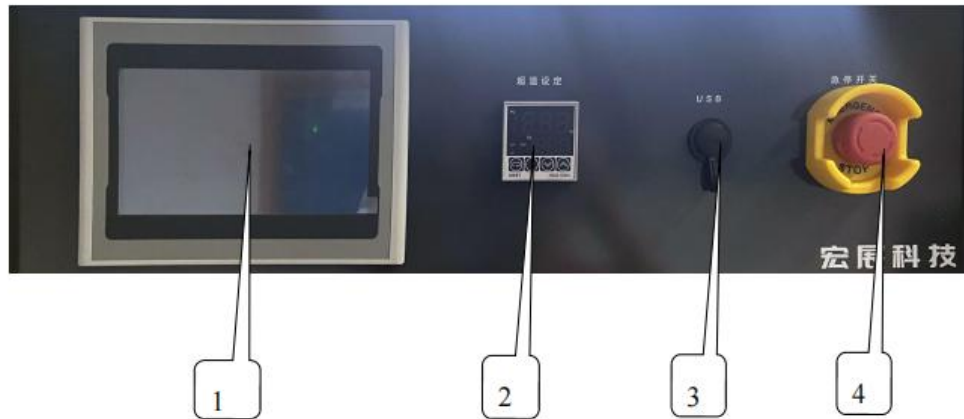## Appearance Introduction and Description:

1. Front and side of the machine

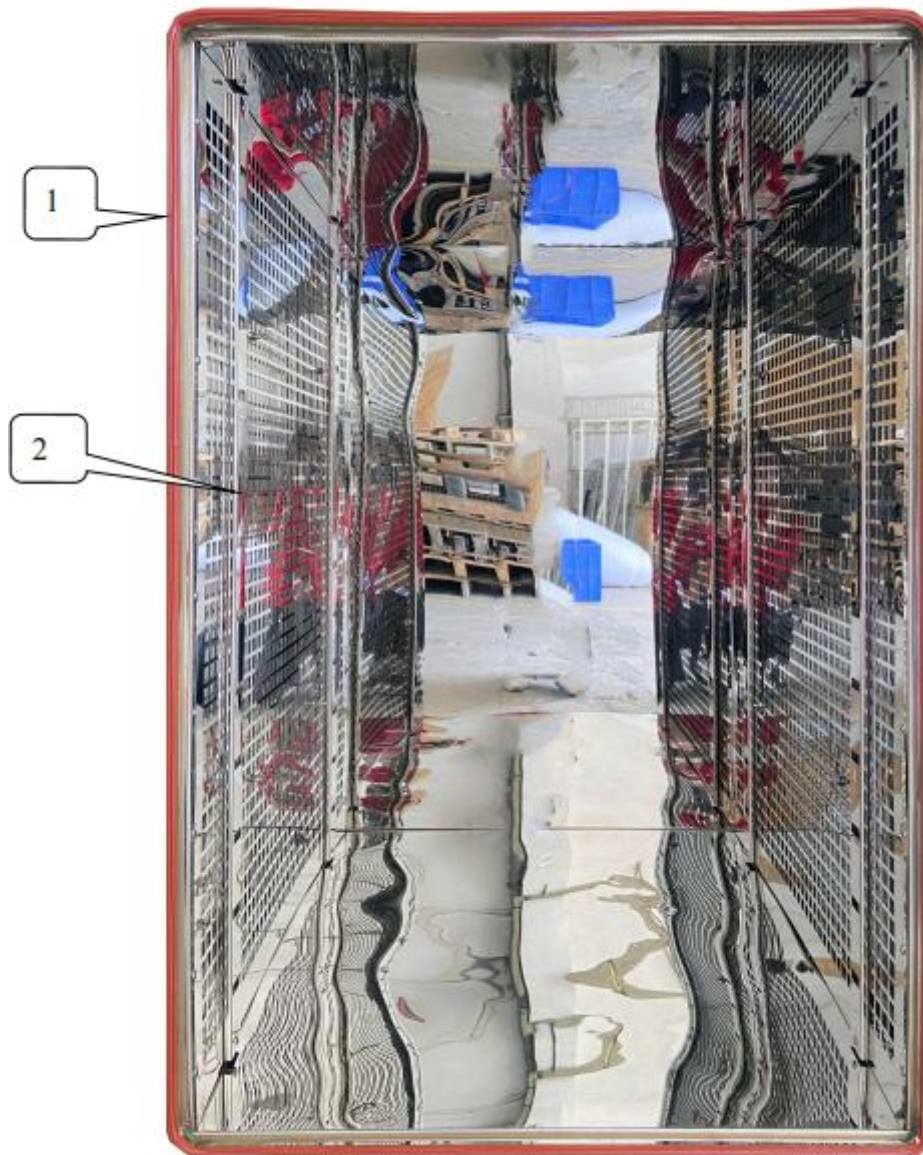| Number	Name	Illustration
1	Three color lights	Green running, yellow standby, red fault
2	The control panel	Operation panel for machine operation
3	The door lock	Pull the vertical door to open it

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2. Control panel

| Number	Name	Illustration
1	Controller	Touch screen programmable controller (Refer to controller manual)
2	Over temperature Setting	To 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	Sample rack track	Used to secure the sample holder

4. Power distribution room
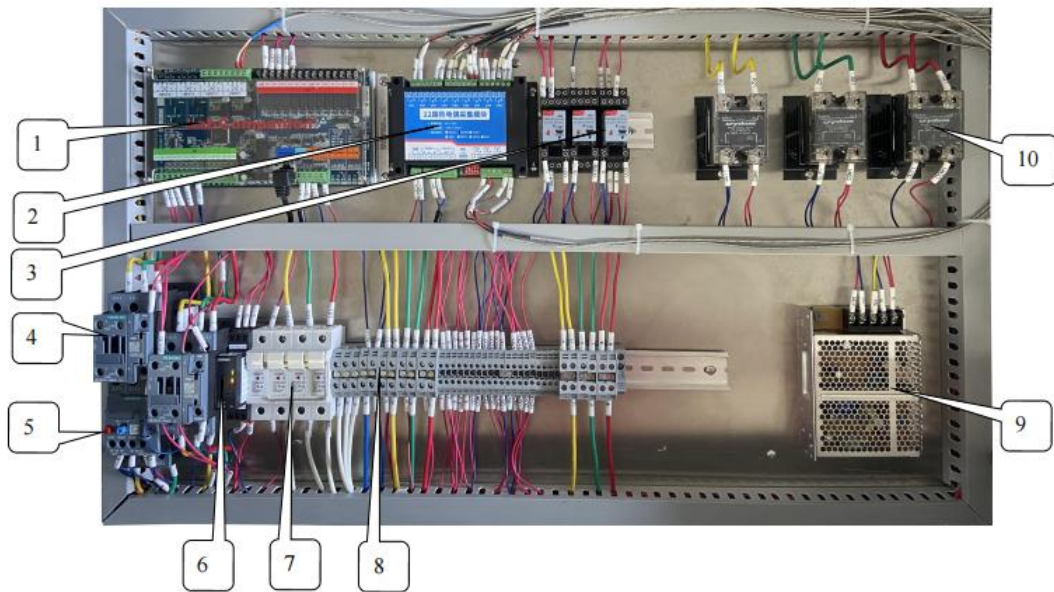
Number	Name	Number	Name
1	Temperature controller	6	Underinverting phase protector
2	Thermocouple acquisition module	7	Fuse
3	Intermediate relay	8	Connector terminal
4	Ac contactor	9	Dc power supply
5	Thermal overload relay	10	Solid state relay

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Test Report:

Temperature °C / Scatter	85°C	200°C	300°C
A	85.3	200.6	298.8
B	85.5	200.8	299.0
C	85.7	201.2	299.3
D	86.0	201.5	299.1
E	86.2	201.6	299.0
F	86.4	201.8	298.6
G	86.5	201.4	298.5
H	86.2	201.1	298.7
O	86.	200.9	299.1
Temperature deviation	1.5	1.8	1.5
Temperature uniformity	1.2	1.2	0.8