

Lab Companion

Industrial Oven

Oven-441

Custom Solution

Brief Introduction



Our large-capacity high-temperature industrial ovens can be customized with various optional functions, sizes/indicators/capacity, etc. according to user requirements.

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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.

Technical Features:

Dimensions (mm)	Width	Height	Depth
Useful	700	500	700
Overall	1110	1690	1500

Temperature range

RT+15°C~+350 °C

Homogeneity and Regulation:

Temperature fluctuation:

≤±0.5°C

Temperature deviation:

≤2.5°C

Temperature uniformity:

≤2.5°C

Temperature rise time:

5.0°C/min (RT°C→+350°C)(The whole process of nonlinear heating, no load)

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Appearance Introduction and Description:

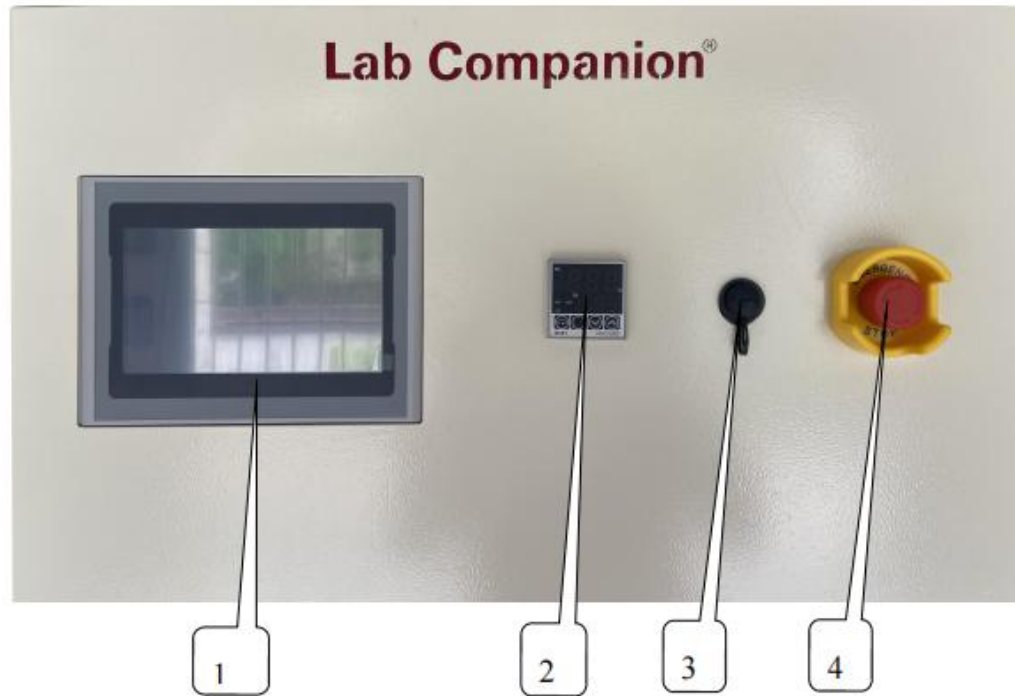
1. Front and side of the machine



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 (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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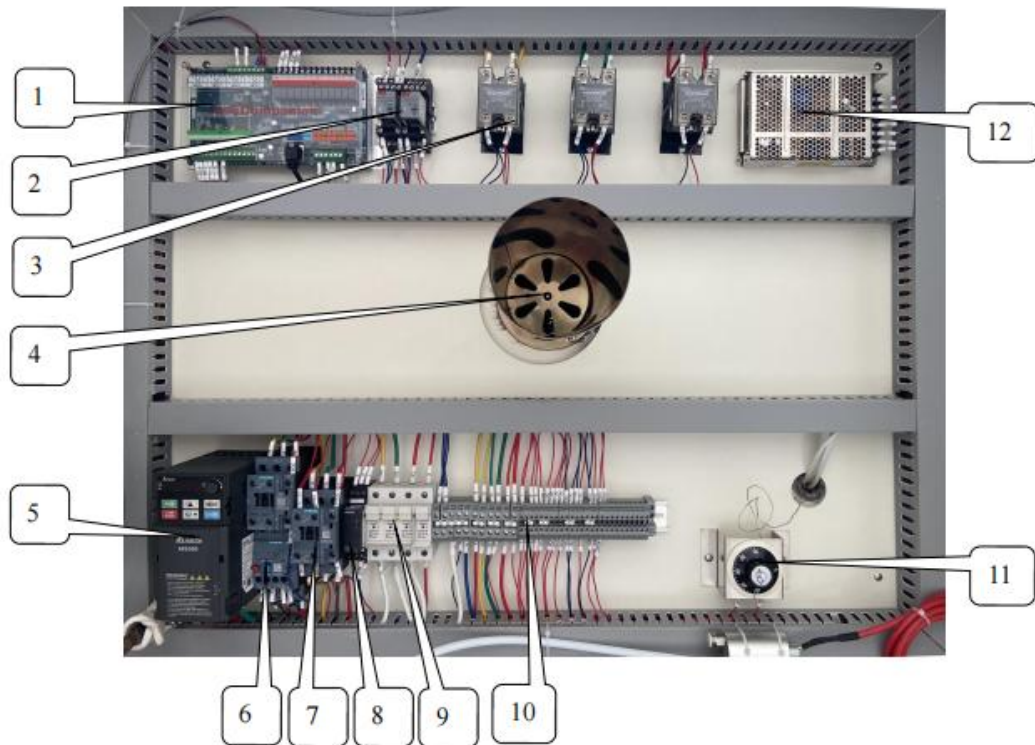
3. Test area



Number	Name	Illustration
1	Sealant	Heat preservation and air leakage prevention
2	Fixed rod	Used to fix the dust-free grid
3	Dust-free grid	Customized for placing the dust-free grid

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4. Power distribution room



Number	Name	Number	Name
1	Temperature controller	7	Ac contactor
2	Intermediate relay	8	Underinverting phase protector
3	Solid state relay	9	Fuse
4	Air outlet	10	Connector terminal
5	Inverter	11	Liquid expansion temperature controller
6	Thermal overload relay	12	Dc power supply

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Test Report:

Scatter \ Temperature°C	85°C	200°C	300°C
A	85.6	200.1	299.0
B	85.8	200.4	299.3
C	86.0	200.1	299.5
D	86.1	200.3	299.7
E	86.2	200.5	299.9
F	86.5	200.7	300.0
G	86.6	200.9	300.2
H	86.4	201.1	300.5
O	86.2	201.4	300.7
Temperature deviation	1.6	1.4	1.0
Temperature uniformity	1.0	1.3	1.7