

Symor Instrument Equipment Co.,Ltd

(China Science & Technology University Climatic Simulation R&D Center)



Precision Oven

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High Temperature Oven

Product	Precision oven
Introduction	Precision ovens are used for drying, curing, high temperature aging and burn in test under high temperature condition, it also supports nitrogen purging to protect products from oxidation in high temperature (optional), the oven is widely applied in electronic & semiconductor industry, laboratories and scientific research institutes.
Picture	 Picture for reference
1. Technical Parameters: (Measuring condition: Ambient temperature 20°C; Humidity 50%RH,unload)	
Purpose	Materials Baking/Curing
Model No.	TBPW-9050A
Interior Dimension	W350×D350×H400 mm
Temperature Range	100°C~ 500°C
Temperature Resolution	0.1°C
Temperature Fluctuation	± 1.0°C
Temperature Uniformity	±2.0%
Shelves	2PCS
Power Supply	380V±10%/50Hz, 3P+5W
Atmosphere	Forced Air Convection
Ambient Temperature	+5°C~ 40°C
2. Structure	
Structure	The Exterior oven is made of reinforced cold rolled steel plate and the surfaces have baking varnishes. The interior oven is made of reinforced mirror polished stainless steel SUS#304, the middle layer is filled with high-density superfine glass fiber for insulation. Auxiliary structure: Door Seal: Double layers high temperature resistant high tension fiber sealing with long lifespan. Door handle: Introduce explosion-proof structure without counteraction for easy and safe operation. Shelves: 2pcs, mirror polished stainless steel SUS#304, height is adjustable. 

The hot air circulation system is composed of Germany imported low noise multi-wing centrifugal air blower and optimal air duct, the left interior wall is the air inlet, the right interior wall is air outlet, this air circulation system can automatically adjust temperature uniformity in the working room and ensure superior temperature homogeneity.

Temperature Circulation



3. Controlling System

LED Controller

Intelligent PID control, LED controller with over temperature protection
Timer: 0~ 9999 min, once temperature to time, automatic power cut off .
Accurate temperature control
Independent temperature limit protector
Fix value setting, programs setting not available



LCD Programmable Controller (Optional)

Intelligent PID control, LCD programmable controller with over temperature protection
Independent temperature control system for each chamber
Accurate temperature control
Independent temperature limit protector
Fix value and programs setting available



EMO Switch

The emergency stop switch is installed on the control panel.
Once emergency stop starts, the power supply is cut off, and all the moving parts will immediately stop the operation and alarm.



Resolution Ratio	Temperature: 0.1°C (display range) Time: 0.1 minute
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Temperature Sensor	PT100 platinum resistance thermometer
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Subsidiary Function	Independent temperature limit alarm: once the setting temperature is over limit, the oven will automatically interrupt, this can ensure the experiment safety during operation
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Resolution Ratio	Temperature: 0.1°C (display range) Time: 0.1 minute
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Temperature Sensor	PT100 platinum resistance thermometer
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4. Heating System

IR Ni-Cr alloy stainless steel high-speed heater with sensible reaction, long lifespan.

Temperature output power is calculated with micro computer, to achieve high efficiency and high precision.

5. Protection

Protection Devices	Over-temperature alarm Lack of phase protection Over-current, over-load protection Fuse, ground protection
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6. Prohibition

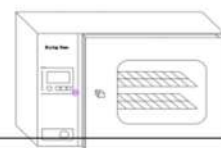
Prohibition for Test Specimen	This precision oven prohibits: Testing or storing inflammable, explosive or volatile specimen Testing or storing corrosive & biological specimen Testing or storing radioactive specimen Testing or storing toxic specimen
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7. Attached materials

Warranty card, circuit diagram, operation manual, packing list, fuse core, factory calibration certificate.

8. Installation Requirement

Installation Site	Flat & Good air ventilation No fierce vibration Not electromagnetic No inflammable and explosive materials
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9. After-sales Service

Warranty	One year with lifetime technical support
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After-sales	1. Via email, telephone, social communication tool (wechat, skype, whatsapp, etc), video conference, etc 2. Engineers going to site for installation or troubleshooting with reasonable charges for non-standard walk-in oven
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Charges	If parts were broken not artificially during warranty, the new parts will be sent to you without charges or express cost (FedEx, DHL, TNT, etc) If parts were broken beyond warranty, reasonable cost (generally at a low price) will be charged for new replacements
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11. Contact

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-Temperature & Humidity Solution Provider!

Picture for reference:

