

Precision Lab Oven Specifications

Applications:

It is suitable for drying, baking and heat treatment in laboratories of industrial and mining enterprises, colleges and universities, and scientific research institutes.

Main parameters:

Temperature range: RT+5 ~ 300 °C (Customise up to 500 °C)

Timing range: 0-999 H / min

Accuracy: ± 2 degree

Resolution: 1 degree

Temperature Uniformity: : ± 5 degree

Inner box material: Stainless Steel

Partition load: 20kg



Available Size:

Model	Inner Chamber Size W*D*H(mm)	External Body Size W*H*D(mm)	Capacity	Heater (kW)	Voltage (V)
MH 350	350 × 360 × 350	470 × 670 × 570	44L	1	220V
MH 450	400 × 400 × 450	510 × 710 × 670	72L	1.5	220V
MH 550	450 × 500 × 550	570 × 810 × 770	124L	2	220V
MH 650	500 × 600 × 700	630 × 910 × 920	210L	3	220V

Features:

1. Mechanical sheet metal structure

The inner box is made of stainless steel; the outer box is made of SECC steel plate with fine powder coating;

2. Thermal insulation materials

High density and high quality insulation cotton, small thermal conductivity, strong thermal radiation resistance, can effectively prevent heat penetration. Soft silicon packing, heat resistance, corrosion resistance, good airtightness, environmental protection and pollution-free.

3. Machine structure

Single door, controller on the left side of the machine, high temperature luxury handle
Plastic foot pads are installed at the bottom of the box.

4. Air supply circulation system

High temperature resistant long shaft motor with powerful multi wing wind wheel, forced horizontal air supply circulation. The air source is driven by the circulation motor to drive the wind wheel through the electric heater. After that, the hot air will be sucked into the air duct to become the source for circulating heating again. This is to reduce energy consumption and ensure the temperature uniformity in the box. When the door is opened or closed, it can be used to send air. The air circulation system quickly returns to the operating temperature value, so that the temperature is more uniform.

5. Temperature control system

At the same time, the PV / SV of PID microcomputer automatic calculation shows that the required temperature can be set freely according to personal will within the allowable range of machine temperature, and the accuracy of temperature control can be ensured by setting PID

parameters in the table, and appropriate temperature control parameters can be obtained from the system self calculation in the table.

6. Timer

Use 9999 digital setting, digital display type, and temperature timing, power failure alarm. The temperature sensor adopts imported PT-100 temperature sensing probe, and the temperature control mode is P.I.D + S.S.R silicon controlled rectifier.

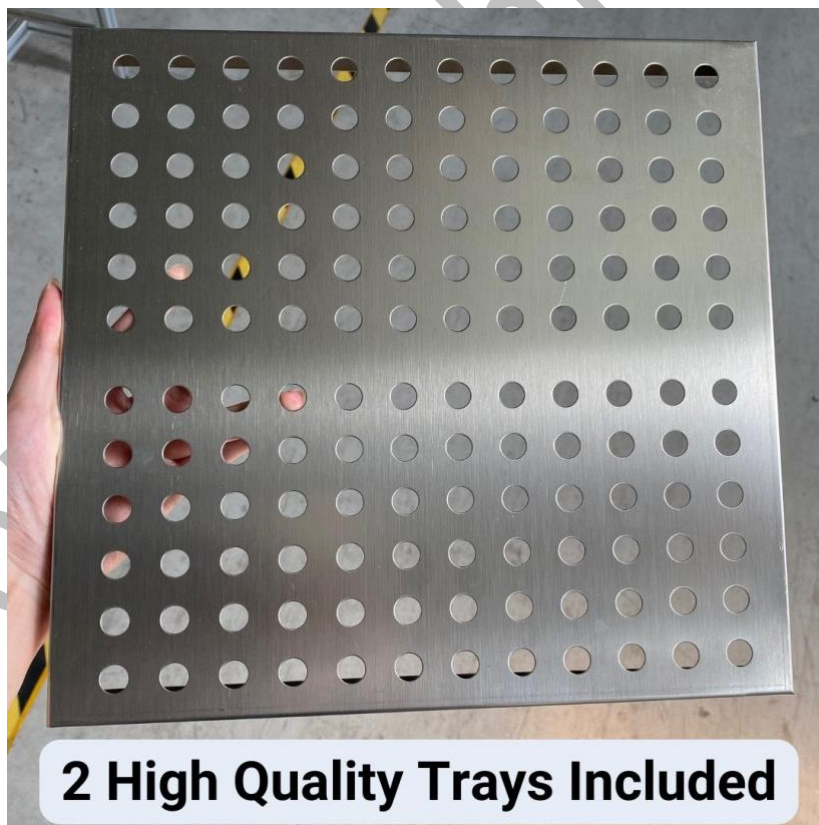
7. Heater

The heater is a round type stainless steel heating pipe, with stable temperature rising, fast heating speed, no pollution and long service life.

8. Motor Overload Protection

Electro thermal over current protection device.

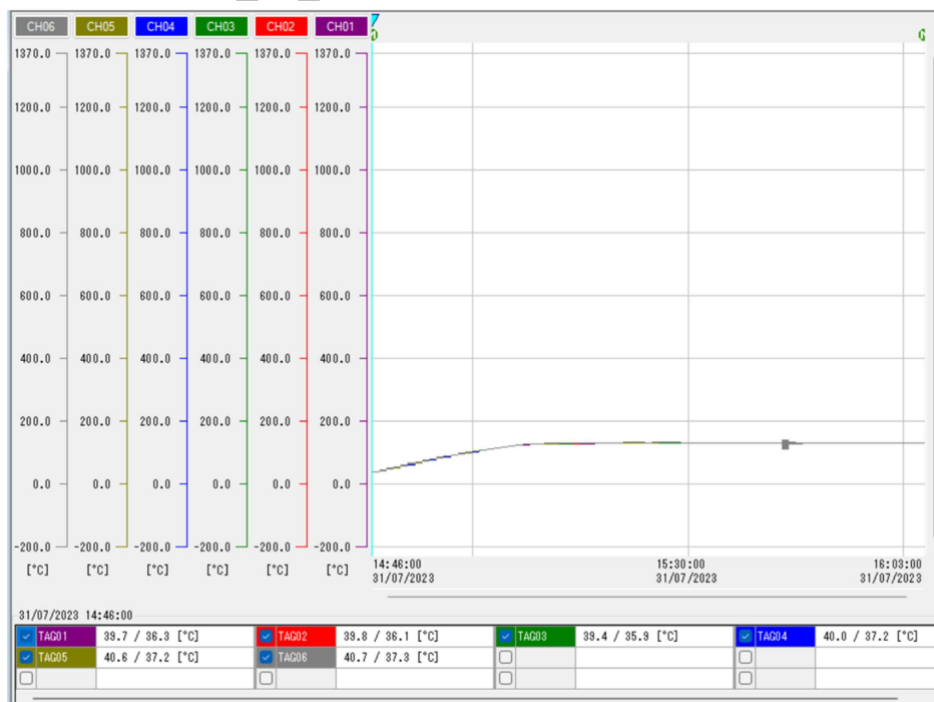
9. High Quality Tray





Quality Assurance

- ✓ Fully assembled and factory tested at max. temperature PRIOR to shipping
- ✓ Test with temperature recorder to ensure temperature accuracy and uniformity
- ✓ Data logged and graph plotted by temperature recorder is provided



Lead Time

- ✓ READY STOCK, subject to prior sales
- ✓ For customized oven, lead time is 5-6 weeks

Delivery

- ✓ Free delivery for factory near Kulai, Johor, Malaysia
- ✓ For other regions, door-to-door shipping is charged separately.
- ✓ Fully wrapped with plastic to prevent damage during delivery.
- ✓ Sealed with wooden crate for long distance delivery



After Sales

- ✓ 1-year limited warranty
- ✓ Simple maintenance with following documentation provided:
 - Circuit diagram
 - Spare parts with model number BOM
 - Troubleshooting method
 - Preventive maintenance procedures

Testing and proving your process before equipment purchase

Many of our clients send sample to us / visit our facility for testing and process development with our thermal equipment before making a purchase commitment. You and any of your colleagues are welcome to utilise the same expert technical information and process solutions provided here. To get immediate engineering help selecting the most cost-effective heat process solution for your application, contact an experienced engineer at Hot Air Technology Sdn. Bhd.

About Hot Air Technology Sdn. Bhd.



Since 2000, Hot Air Technology Sdn Bhd has designed and manufactured precision thermal system and industrial automation equipment for various industries.

Our Product



Figure 1 Clean Room Hard Disk Drive Curing Conveyor Oven

Our Team



Our Clients

- Fortune 500 company in semiconductor industry
- 2 Fortune 500 company in electronics manufacturing industry
- Top UK private company in home appliances industry
- Malaysia listed company in electric power industry
- Malaysia listed company in aerospace industry
- Top Denmark private company in medical equipment industry
- Top Singapore private company in optical lens industry
- Top Singapore listed hard disk manufacturing company
- Top Higher learning institutions



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