

Laboratory Drying Oven – Horizontal Type, Double Door, 250 Liters



General Description

Heavy-duty laboratory hot air oven designed for continuous operation in laboratory and industrial environments.

Suitable for drying, heating, curing, conditioning, and moisture removal applications.

Designed for uniform temperature distribution, energy efficiency, and long service life.

Chamber Size & Capacity

- **Internal Length:** 1000 mm
- **Internal Width:** 600 mm
- **Internal Height:** 400 mm

Total Volume: (250 Liters)

Outer Dimensions (With 75 mm Insulation)

- **Width:** 1150 mm
- **Height:** 550 mm
- **Depth:** 750 mm

Overall Size (L × W × H): 1150 × 750 × 550 mm

Temperature Specifications

- **Maximum Temperature:** 200°C
 - **Operating Range:** Ambient +10°C to 200°C
 - **Temperature Control:** Digital PID Controller
 - **Temperature Uniformity:** ±2°C
 - **Temperature Accuracy:** ±1°C
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Construction Details

- **Inner Chamber:** Stainless Steel (SS 304)
 - **Outer Body:** GI steel
 - **Insulation:** 75 mm High-Density Mineral Wool
 - **Construction Type:** Double Wall
 - **Door Type:** Double Door (Front Opening)
 - **Door Seal:** High-Temperature Silicone Gasket
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Heating & Air Circulation

- **Heating Type:** Stainless Steel Tubular Heaters
 - **Heating Control:** Automatic ON/OFF via PID Controller
 - **Air Circulation:** Forced Convection System
 - **Blower:** Motorized Circulation Blower
 - **Air Flow:** Uniform Throughout Chamber
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Tray Arrangement

- **Number of Shelves:** 2 Nos.
 - **Material:** Stainless Steel (SS 304)
 - **Type:** Removable and Adjustable
 - **Support:** Side Rails
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Electrical Specifications

- **Power Supply:** 230 V AC, Single Phase, 50/60 Hz
- **Connected Load:** Approx. 3.5–4.0 kW

Control Panel Includes:

- PID temperature controller
 - MCB protection
 - Contactors and relays
 - Indicator lamps
 - Main power switch
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Safety Features

- Over-temperature protection thermostat
 - Blower interlock system
 - Proper earthing
 - Insulated outer body
 - Door safety switch
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Performance Features

- Suitable for continuous operation
- Stable temperature control
- Energy-efficient insulation (75 mm)
- Uniform heat distribution
- Heavy-duty construction

- Easy maintenance and cleaning
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Applications

- Drying laboratory glassware
 - Sample conditioning
 - Moisture determination tests
 - Material curing and aging
 - Research and development applications
 - Quality control laboratories
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Optional Features

- Digital timer
 - Programmable temperature controller
 - Data logger
 - Additional shelves
 - RS-485 communication port
 - Observation window with internal lighting
 - Adjustable exhaust damper
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Warranty

12 Months Warranty against manufacturing defects.

Manufacturer Details

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