

INDUSTRIAL HOT AIR OVEN (DOUBLE DOOR)



General Description

Heavy-duty industrial **hot air oven** designed for drying, heating, and conditioning applications. Suitable for laboratory and industrial use with uniform temperature distribution and robust construction.

Dimensions

◆ External Size

- Length: **2300 mm**
- Width: **1300 mm**
- Height: **1800 mm**

◆ Internal Chamber Size

- Length: **2100 mm**
- Width: **1200 mm**
- Height: **1600 mm**

Construction Details

◆ Inner Chamber

- Material: **SS 304 Stainless Steel**
- Finish: Matt / smooth finish
- Thickness: **1.2 – 1.5 mm**

◆ Outer Body

- Material: **GI (Galvanized Iron) Sheet**
- Thickness: **1.2 – 1.6 mm**
- Finish: Powder coated

◆ Insulation

- Material: **Mineral Wool / Rockwool**
 - Density: **80–100 kg/m³**
 - Thickness: **50 mm**
-

Temperature Specifications

- Temperature Range: **40°C to 120°C**
 - Accuracy: **±2°C**
 - Uniformity: **±3°C (empty chamber)**
 - Heating Type: **Electrical heating elements**
-

Air Circulation System

- Type: **Forced air circulation**
 - Blower: High-temperature motor with centrifugal fan
 - Air flow: Uniform distribution inside chamber
-

Electrical Specifications

- Power Supply: **415V, 3 Phase, 50 Hz**
- Heating Load: **~9 to 15 kW (approx., based on design)**
- Control Panel: Side-mounted

Control System

- **Digital Temperature Indicator & Controller (PID type)**
 - Programmable controller (multi-step if required)
 - Display: LED / Digital display
 - Sensor: **PT-100 RTD**
-

Safety Features

- **Miniature Circuit Breaker (MCB)**
 - **Emergency Stop Switch**
 - Over-temperature protection (recommended)
 - Proper earthing
-

Door & Sealing

- Type: **Double Door (Front Opening)**
 - Insulated doors with locking arrangement
 - High-temperature resistant **silicone gasket**
-

Tray / Rack System

- Quantity: **2 Nos. Horizontal racks**
 - Material: **Stainless Steel (SS 304)**
 - Type: Heavy-duty fixed / removable
 - Spacing: **400 mm between racks**
-

Structural Frame

- Material: **MS square tube / RHS frame**
- Rigid welded construction
- Designed for industrial durability

Finish

- External: Powder coated (corrosion resistant)
 - Internal: SS finish (easy to clean)
-

Optional Features (if required)

- Timer with alarm
- Data logger
- Additional trays
- Exhaust vent / damper
- Castor wheels