

TECHNICAL DATA SHEET

DRYING OVEN – 6000 LITERS (FORCE VENTILATED)



1 GENERAL DESCRIPTION

Heavy-duty Force Ventilated Drying Oven designed for uniform drying and heating of materials, with precise temperature control up to 250°C. Suitable for industrial and laboratory applications.

2 CAPACITY & DIMENSIONS

Description	Size
Internal Volume	6000 Liters
Internal Dimensions	1820 mm (L) × 1820 mm (W) × 1820 mm (H)
External Dimensions	1970 mm (L) × 1970 mm (W) × 1970 mm (H)

3 CONSTRUCTION

Item	Specification
Internal Material	GI Sheet
External Body	Powder Coated MS / GI Sheet
Insulation	High-density mineral wool
Door	Front hinged insulated door
Gasket	High temperature silicone seal

4 TEMPERATURE PERFORMANCE

Parameter	Specification
Temperature Range	Ambient to 250°C
Temperature Control	Microprocessor Based PID Controller
Display	Digital Display
Sensor	K Type thermocouple
Temperature Stability	±1°C
Temperature Uniformity	±3°C
Ramp Rate	0.5°C – 5°C/min

5 AIR CIRCULATION SYSTEM

Item	Specification
Airflow Type	Forced Ventilated (Centrifugal Blower)
Air Distribution	Rear ducted laminar flow for uniform heating

Item	Specification
Motor Power	Sized to maintain uniform air circulation

6 ELECTRICAL SPECIFICATIONS

Item	Specification
Supply Voltage	230–240 V, Single Phase
Frequency	50 Hz
Heating Type	Electric Tubular Heaters
Total Power	Approx. 6–8 kW (depending on load configuration)

7 SAFETY FEATURES (Four-Tier Protection)

1. PID Temperature Controller – Primary control
 2. Independent Over-Temperature Thermostat
 3. Thermal Fuse Protection
 4. Blower / Motor Overload Protection
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8 APPLICATIONS

- Laboratory drying of chemicals, glassware, and instruments
 - Industrial component drying and curing
 - Material conditioning and pre-heating
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9 OPTIONAL FEATURES

- Timer Function
- Adjustable Ramp/Soak Programming
- Casters for Mobility

OTHER INFORMATION

- Brand: MATCOR
- Model: FC-V6000-250
- Country of Origin: Made in UAE