



Chamber Hot Air Oven – FC-V154-80 (Force Ventilated)
Heavy-Duty Force Ventilated Chamber Oven for Industrial & Laboratory Applications

GENERAL INFORMATION

Equipment Name	Chamber Hot Air Oven – FC-V154-80
Full Form	Force Ventilated Chamber Hot Air Oven
Application	Uniform drying and heating of materials with precise temperature control
Test Method	Force Ventilated Heating with Microprocessor Control
Brand & Model	MATCOR FC-V154-80 Made in UAE

EQUIPMENT DESCRIPTION

The Chamber Hot Air Oven – FC-V154-80 is a heavy-duty, force ventilated oven designed for uniform drying and heating of materials in industrial and laboratory environments. Featuring microprocessor-based temperature control with a maximum temperature of 80°C, the oven provides precise, stable heating with exceptional temperature uniformity throughout the chamber. The integrated force ventilation system ensures consistent air circulation, making it ideal for critical drying applications, material conditioning, low-temperature curing processes, and electronics drying.

CAPACITY & DIMENSIONS

Description	Specification
Internal Volume	154 Liters
Internal Dimensions	1500 mm (L) × 540 mm (W) × 190 mm (H)
External Dimensions	1600 mm (L) × 640 mm (W) × 290 mm (H)

CONSTRUCTION DETAILS

Item	Specification
Internal Material	Stainless Steel (SS 304)
External Body	GI Sheet / Powder Coated
Insulation	High-Density Mineral Wool
Door Sealing	High Temperature Insulation Curtain
Gasket Material	High Temperature Silicone Seal
Chamber Support	Reinforced Structure

TEMPERATURE PERFORMANCE

Parameter	Specification
Temperature Range	Ambient +10°C to 80°C
Temperature Control	Microprocessor Based PID Controller
Display	Large LED / Digital Display
Temperature Sensor	PT100 RTD
Temperature Stability	±1°C
Temperature Uniformity	±3°C
Heating Method	Electric Tubular Heater

AIR CIRCULATION SYSTEM

Item	Specification
Airflow Type	Force Ventilated
Air Distribution	Uniform Forced Convection
Fan Type	Axial Cooling Fans
Fan Quantity	3 Nos (Top Mounted)

ELECTRICAL SPECIFICATIONS

Item	Specification
Supply Voltage	230 V AC, Single Phase
Frequency	50 Hz
Heating Element	Electric Tubular Heaters
Total Power Consumption	Approx. 1.5 – 2.0 kW
Control Panel	Side Mounted

SAFETY FEATURES

Four-Tier Protection System:

1. PID Temperature Controller – Primary Control
2. Independent Over-Temperature Thermostat
3. Thermal Fuse Protection
4. Fan Overload Protection

APPLICATION AREAS

- Laboratory drying applications
- Industrial component heating
- Material conditioning and preparation
- Electronics drying and assembly
- Low-temperature curing processes
- Concrete and material testing laboratories
- Research and quality control applications