



LABORATORY DRYING OVEN

Double-Door Forced-Air Drying Oven • Model FC-V250-D250

Electrically Heated, PID-Controlled Laboratory / Industrial Drying Oven — 250 L



MAX. TEMPERATURE	INTERNAL VOLUME	HEATER LOAD	POWER SUPPLY	CONTROL
250 °C	240 L	2.5 kW	230 VAC, 1 ϕ	Digital PID + SSR

TECHNICAL SPECIFICATIONS		CONSTRUCTION & FEATURES
Equipment Type	Electrically Heated Drying Air Oven	- SS304 stainless steel inner oven chamber - Powder-coated GI outer body - High-density mineral wool insulation - Two stainless steel round coil heaters - Forced drying-air circulation fan (continuous duty) - Digital PID temperature controller with auto-tune - K-type thermocouple feedback sensor 40 A solid-state relay (silent, contact-free switching) 20 A single-pole MCB protection - Main power switch with indicator lamps - Double-door access with heat-resistant handles - Mandatory earthing of body, panel and fan
Manufacturer	Falcon Core Industries LLC	
Internal Volume	240 Litres	
Internal Dimensions	1000 (L) × 550 (W) × 500 (H) mm	
External Dimensions	1180 (L) × 700 (W) × 800 (H) mm	
Power Supply	Single Phase, 230 VAC, 50 Hz	
Total Connected Load	Approx. 3 kW	
Protection	20 A Single-Pole MCB	
Earthing	Mandatory	
Heater Type	Stainless Steel Round Coil Heater	
Heater Quantity / Rating	1 No. — 2.5 kW	
Heater Control	Solid-State Relay (SSR), 40 A	
Air Circulation Fan	1 No., 30 W, Direct Drive, Continuous	
Temperature Controller	Digital PID Controller	
Temperature Sensor	K-Type Thermocouple	
Maximum Operating Temp.	250 °C	
Inner Chamber Material	SS304 Stainless Steel	
Outer Body Material	Powder-Coated GI Sheet	
Insulation	High-Density Mineral Wool	

APPLICATIONS

Controlled heating, drying, curing and preheating for laboratory and industrial applications requiring uniform hot-air circulation.

KEY SAFETY FEATURES

- 20 A single-pole MCB
- Digital PID temperature control
- K-type thermocouple feedback
- Solid-state relay heater switching
- Mandatory earthing
- Mineral wool insulation
- Forced air circulation

WORKING PRINCIPLE

The fan circulates air continuously while the PID controller monitors chamber temperature via the K-type thermocouple. When the measured temperature is below setpoint, the controller signals the SSR, which switches AC supply to the heater(s). Heated air is distributed uniformly by the fan; once setpoint is reached, the PID controller pulses the SSR to maintain stable temperature.

SERVICE & TECHNICAL SUPPORT

Service Provider	Falcon Geomatics LLC
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