



Product Description

The **Double Walled Universal Oven (Mettert Type)** is an elegantly designed, precision laboratory oven suitable for a wide range of applications including **microbiology, cell cultivation of animals and plants, food studies, general heating, drying, sterilizing, baking, material testing, ageing tests of electronic components, and hardening of plastic resins.**

The oven ensures **highly precise, even, and gentle temperature control**, making it ideal for **complex experiments involving sensitive samples.** Designed as a **cost-effective heating solution**, it is widely used in **industries, R&D laboratories, pharmaceutical units, food & beverage industries, and educational & research institutions** involved in **medical, agricultural, and industrial research.**

Applications

- Microbiology & Cell Culture (plants and animals)
- Pharmaceutical & Medical Research
- Food Studies & Food Testing
- Drying, Baking & Sterilization
- Material Testing & Ageing Tests
- Electronic Component Drying & Tempering
- Plastic Resin Hardening
- General Laboratory Heating Applications

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



Export Sales: +91-9829132777
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IT-2013, Ramchandrapura Industrial Area,
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Salient Features & Construction

- **Double-walled construction** for enhanced thermal efficiency
- **Outer chamber** made of **powder-coated Mild Steel**
- **Inner chamber** made of **Aluminium or Stainless Steel (SS 304)**
- **Forced air convection system** with motor and blower ensures:
 - Uniform temperature distribution
 - Strong air dispersion
 - No cross-contamination
- **Mineral wool insulation** between inner and outer chamber minimizes thermal loss
- **Double-walled insulated door** with:
 - Door gasket for proper sealing
 - Heavy-duty hinges
 - Ball catcher and spring-loaded closing mechanism
- **Adjustable dual ventilation slides** for controlled air/vapour circulation
- **High-quality Nichrome / Kanthal beaded heating elements** placed at bottom and sides for uniform heating
- **Ribbed inner chamber** allows flexible shelf positioning
- Supplied with **2 or 3 removable shelves**
- **Digital PID temperature controller** with high accuracy
- **Digital LED display** showing SV (Set Value) & PV (Process Value)
- Front panel fitted with **ON/OFF switch, controller, and indicators**
- Supplied complete with **cord and plug**

Temperature Control

- Temperature Range: **50 °C to 250 °C**
- Accuracy: **± 1 °C**
- Control Method: **PID (Proportional–Integral–Derivative)**

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Technical Specifications

Parameter	Drying Oven A	Drying Oven B
Type	Double Walled Universal Oven (Memmert Type)	Double Walled Universal Oven (Memmert Type)
Volume	120 Litres	400 Litres
Rated Temperature	250 °C	250 °C
Temperature Control	Digital PID Controller	Digital PID Controller
Temperature Accuracy	± 1 °C	± 1 °C
Inner Chamber Material	Aluminium / SS 304	Aluminium / SS 304
Outer Chamber Material	Powder Coated Mild Steel	Powder Coated Mild Steel
Heating Elements	Nichrome / Kanthal	Nichrome / Kanthal
Air Circulation	Forced Convection (Motor & Blower)	Forced Convection (Motor & Blower)
Insulation	Mineral Wool	Mineral Wool
Display	Digital LED (SV & PV)	Digital LED (SV & PV)
Shelves	Supplied with Shelves & Supports	Supplied with Shelves & Supports
Ventilation	Dual Adjustable Air Vent Slides	Dual Adjustable Air Vent Slides
Operating Voltage	220 V AC, 50 Hz	220 V AC, 50 Hz
Accessories	Shelves & Shelf Supports	Shelves & Shelf Supports

Standard Scope of Supply

- Double Walled Universal Oven (Memmert Type)
- Removable Shelves with Supports
- Digital PID Temperature Controller
- Power Cord & Plug

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