

VO-E Series Vacuum Drying Oven

General drying, heating, and testing

LAB1ST VO-E Series Vacuum Drying Ovens feature an external chamber heating design, providing a versatile and cost-effective solution for drying, heating, and testing under vacuum or inert gas conditions.

With a standard temperature range of up to 200°C and a rectangular stainless steel chamber, these ovens maximize usable space and accommodate flexible shelf configurations, making them ideal for laboratories and industrial applications requiring gentle and uniform heating.



Key Characteristics

- Temperature Range: RT+15~200°C
- Vacuum Level < 50Pa
- Chamber Volume: 23L - 500L
- Heating Method: Chamber Heating

Features

- > **4th Generation LCD Temperature Controller:**
Specially calibrated for vacuum ovens to ensure precise and reliable temperature control.



- > **Calibratable Controller with Countdown Timer:**
Programmable timer from 1 to 9999 minutes for flexible process management.
- > **Independent Over-Temperature Protector (with indicator):**
Prevents overheating and ensures operational safety.
- > **LED Interior Light:**
Provides clear illumination for easy observation of samples.

- > **Stainless Steel 304 Interior:**

Combines aesthetic appeal with long-lasting durability and easy cleaning.

- > **Oil-Filled Mechanical Vacuum Gauge:**

Delivers stable and reliable vacuum measurements.



- > **Dedicated Inert Gas Inlet Valve:**

Allows controlled introduction of nitrogen or other inert gases.

- > **Standard KF25 Vacuum Port:**

Ensures reliable and convenient connection to vacuum systems.



- > **Uniform Chamber Heating with Removable Trays:**

Enables flexible loading configurations and easy operation.

- > **Maximized Capacity:**

Accommodates more trays within the same chamber volume for enhanced productivity.

| Model | VO-01E | VO-02E | VO-03E | VO-07E | VO-18E |
|----------------------|-------------------|-------------------|-------------------|--------------------|---------------------|
| Capacity | 23 L 0.81 cu ft | 53 L 1.87 cu ft | 90 L 3.18 cu ft | 210 L 7.42 cu ft | 500 L 17.66 cu ft |
| Temp Range | RT+15~200°C | RT+15~200°C | RT+15~200°C | RT+15~200°C | RT+15~200°C |
| Shelf Qty (Std/Max) | 2 4 | 2 5 | 3 6 | 4 8 | 5 10 |
| Shelf Size (mm) | 295x270 | 410x340 | 445x420 | 610x555 | 780x625 |
| Interior (WxDxH, mm) | 300x300x275 | 415x370x345 | 450x450x450 | 560x600x640 | 630x810x845 |
| Exterior (WxDxH, mm) | 580x450x450 | 720x525x535 | 615 x 590 x 635 | 860x670x890 | 950x 950 x 1115 |
| Vacuum Port | KF25 | KF25 | KF25 | KF25 | KF25 |
| Vacuum Level | <50Pa | <50Pa | <50Pa | <50Pa | <50Pa |
| Recommended Pump | 2L/s | 2L/s | 4L/s | 8L/s | 8L/s |
| Gross Weight (kg) | 65 | 90 | 130 | 280 | 600 |
| Power Input | 500 W | 1500 W | 1500 W | 2500 W | 3500W |
| Power Supply | AC220V 50Hz | AC220V 50Hz | AC220V 50Hz | AC220V 50Hz | AC220V 50Hz |

Options

High-Temperature Heating: 300°C, 400°C, 500°C

Digital Vacuum Gauge

High Vacuum (<1Pa)

PLC Touchscreen Controller (with recipe control, N₂ and vacuum regulation)

Vacuum Controller (0.1–100 kPa)

Full Stainless Steel Exterior

Dust Filter

KF25 Stainless Steel Vacuum Hose (1m / 2m)

Stainless Steel Cold Trap (Dry Ice or Coil Type)

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