

VO-P Series Vacuum Drying Oven

High-throughput, multi-shelf processes

LAB1ST VO-P Series Vacuum Drying Ovens utilize independent shelf heating technology, delivering faster heating rates, higher temperatures (up to 250°C standard), and improved thermal efficiency.

These ovens are ideal for applications requiring precise and rapid temperature control across multiple shelves, with the ability to operate each shelf at different temperatures.

Suitable for high-throughput labs and industrial processes.



Features

- Temperature Range: RT+15~250°C
- Vacuum Level<50Pa
- Chamber Volume: 23L - 1000L
- Heating Method: Shelf Heating

Features

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

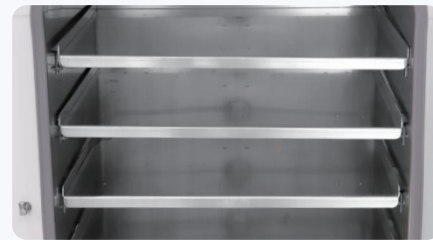


> **Calibratable Controller with Countdown Timer:**
Programmable timer from 1 to 9999 minutes for flexible and precise process management.

> **LED Interior Light:**
Enhances visibility for easy monitoring of samples.

> **Stainless Steel 304 Interior:**
Combines durability with a clean, professional appearance and easy maintenance.

> **Uniform Chamber Heating with Removable Trays:**
Enables rapid heating, high temperatures, and individual shelf operation for optimized performance.



> **Oil-Filled Mechanical Vacuum Gauge:**
Provides stable and dependable vacuum measurements.

> **Dedicated Inert Gas Inlet Valve:**
Enables controlled introduction of nitrogen or other inert gases.

> **Standard KF25 Vacuum Port:**
Ensure reliable and convenient vacuum connections.



> **Maximized Capacity:**
Achieves desired temperatures with lower power consumption compared to conventional designs.

For Larger size (≥ 1000L) vacuum drying oven

- > **KF40 Vacuum Port:**
Standard larger connection for high-volume applications.
- > **Vertical Chamber Design:**
Ergonomically optimized for easy loading and operation.
- > **Enhanced Configuration Flexibility:**
Supports customized setups for diverse process requirements.



Model	VO-01P	VO-02P	VO-03P	VO-07P	VO-18P	VO-1000P
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	1000 L 35.31 cu ft
Temp Range	RT+15~250°C	RT+15~250°C	RT+15~250°C	RT+15~250°C	RT+15~250°C	RT+15~250°C
Shelf Qty	1	1	3	5	7	8
Shelf Size (mm)	280x250	395x310	430x480	540x530	610x740	980x880
Interior (WxDxH, mm)	300x300x275	415x370x345	450x450x450	560x600x640	630x810x845	1000x950x1000
Exterior (WxDxH, mm)	580x450x450	720x525x535	615 x 590 x 635	860x670x890	950x 950 x 1115	1500x1200x1700
Vacuum Port	KF25	KF25	KF25	KF25	KF25	KF40
Vacuum Level	<50Pa	<50Pa	<50Pa	<50Pa	<50Pa	<50Pa
Recommended Pump	2L/s	2L/s	4L/s	8L/s	8L/s	14L/s
Gross Weight (kg)	65	90	130	280	600	1000
Power Input	450 W	900 W	1400 W	2200 W	3900 W	6200 W
Power Supply	AC220V 50Hz	AC220V 50Hz	AC220V 50Hz	AC220V 50Hz	AC380V 50Hz/AC 220V 60Hz	

Options

High-Temperature Heating: 300°C, 400°C, 500°C	Dust Filter
Digital Vacuum Gauge	KF25 Stainless Steel Vacuum Hose (1m / 2m)
High Vacuum (<1Pa)	Stainless Steel Cold Trap (Dry Ice or Coil Type)
PLC Touchscreen Controller (with recipe control, N ₂ and vacuum regulation)	Labfirst Scientific Instruments (Shanghai) Co., Ltd. No.248 Guanghai Road, Minhang District, Shanghai, China
Vacuum Controller (0.1–100 kPa)	CALPHA INDUSTRIES INC. 10 Corporate Park Ste 330, Irvine, California 92606, USA
Full Stainless Steel Exterior	LSI PROCESS EQUIPMENT CO., LTD. 701 West Georgia Street, Suite 1500, Vancouver, British Columbia, V7Y 1C6, Canada
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