

VOS300/400 Vacuum Drying Oven with Vacuum Pump

High-Temperature 300°C/400°C

LAB1ST VOS300/400 series is a high-temperature vacuum drying oven designed for demanding applications requiring elevated temperatures up to 300°C or 400°C. It combines rapid heating, precise temperature control, and reliable vacuum performance to safely dry heat-sensitive and oxidizable materials.

The unit comes standard with an inert gas inlet valve and over-temperature protection for enhanced operational safety. Ideal for industrial and laboratory use, it ensures consistent and repeatable results with enhanced safety features.



Features

- > **High-Temperature Capability** up to 300°C/400°C for demanding drying processes
- > **Durable SUS304 Stainless Steel Chamber** ensures corrosion resistance and easy cleaning
- > **High Vacuum Integrity** maintained by an adjustable silicone rubber door seal (VOS400-50L uses high-temperature borosilicate material seal for enhanced heat resistance)
- > **Clear Double-Layer Tempered Glass Door** provides excellent visibility of the workspace
- > **Enhanced Safety Features** including over-temperature protection and a standard inert gas inlet valve
- > **Programmable Process Control** for setting heating, vacuum, and nitrogen purge times to ensure batch consistency
- > **Uniform Shelf Heating** with 2 or 3 independently controlled shelves for efficient and consistent drying
- > **Fully Integrated Plug-and-Play Design** includes a built-in vacuum pump and desiccant tank for immediate operation



Options

Liquid Water Filter

Exhaust Oil Mist Filter
(recommended replacement every 6 months)

Model	VOS400-50L	VOS300-60L	VOS300-90L	VOS300-120L	VOS300-210L
Temp. Range	RT+50°C ~ 400°C	RT+20°C ~ 300°C	RT+20°C ~ 300°C	RT+20°C ~ 300°C	RT+20°C ~ 300°C
Display Resolution	0.1°C				
Temp. Fluctuation	±1°C				
Vacuum Level	133 Pa				
Vacuum Gauge	Mechanical Pointer Type				
Chamber Material	SUS304 Stainless Steel (1Cr-18Ni9Ti)				
Chamber Volume	64 L 2.26 cu ft	64 L 2.26 cu ft	91 L 3.21 cu ft	125 L 4.41 cu ft	215 L 7.59 cu ft
Shelves	2 pcs	2 pcs	2 pcs	3 pcs	3 pcs
Heating Method	Shelf Heating	Shelf Heating	Shelf Heating	Shelf Heating	Shelf Heating
Inner Dimensions (WxDxH, mm)	400×400×400	400×400×400	450×450×450	500×500×500	560×600×640
Outer Dimensions (WxDxH, mm)	600×570×1390	600×570×1390	610×590×1350	660×640×1400	720×820×1750
Power Input	3800 W	2300 W	2450 W	2600 W	2800 W
Power Supply	AC220V 50Hz	AC220V 50Hz	AC220V 50Hz	AC220V 50Hz	AC220V 50Hz

*Note: Performance data measured under no-load conditions at 20°C ambient temperature and 50% RH.

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