



Vacuum Drying Oven

Laboratory and Processing Equipment



LAB1ST / Laboratory and Processing Equipment

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VACUUM DRYING OVEN

Vacuum drying ovens are made up of stainless steel that can bear the high vacuum pressure without any kind of deformation. They are divided into hollow trays which increases the surface area for heat conduction. The materials to be dried are kept on the trays inside the vacuum dryer and pressure is reduced by means of vacuum pump. The dryer door is tightly shut and steam is passed through the space between trays and jacket so that the heat transfer occurs by conduction.

Lab1st's drying ovens are built with polished stainless steel interior, removable racks, overheat protection, inert gas inlet, temp calibration, timing and password functions. All ovens are CE compliant. Furthermore, we offer OEM and customization service as well.



Temperature range
RT+15°C-200°C



Pressure
0.7mbar~ATM



Internal volume
25L/53L/90L/210L/500L



FEATURES

- 1) 2-stage over temperature protection (with neon indicator) based on capillary temperature switch
- 2) Thermal-conductive aluminum pan shelves provide excellent temperature uniformity inside the chamber
- 3) Oil-filled mechanical vacuum gauge provides more accurate reading, longer gauge life and minimizes shipping damage.
- 4) Easy-to-clean smooth electro-polished stainless steel interior for exceptional durability and ease of maintenance.
- 5) 5 sided pad heating technology and aluminum shelves for excellent temperature uniformity and faster heating rates
- 6) New generation large-LCD low proportional temperature controller with high accuracy within +/- 1°F (0.5 °C)

53L



210L



500L



TECHNICAL DATA

Model	VO-01	VO-02	VO-03	VO-07	VO-18
Technical Data					
Room Temperature	40°C-200°C				
Timing Time Range	1 – 9999 min				
Pressure Range	0.7mbar~Atm				
Heating Mode	Ambient Heating	Ambient Heating	Bottom Tray Heating		
Power Requirements	110V/220V;1P	110V/220V;1P	110V/220V;1P	220V;1P	220V;1P
Rated Power	0.5 kW	1.5 kW	1.5 kW	2.5kW	3.5 kW
Container Parameters					
Door Gasket Material	Silicon Rubber				
Interior Material	SUS304				
Observation Window	1 / 2 "Thick Tempered Glass、 1 / 8 "Thick Polycarbonate				
Internal Volume	25 L	53 L	90 L	210L	500 L
Aluminum Trays No. (Standard/Max)	2 / 4	2 / 5	3, Non Adjustable	5, Non Adjustable	7, Non Adjustable
Vacuum Port	3/8" Pagoda	3/8" Pagoda	KF25	KF25	KF25
Dimensions					
Gross Weight [kg]	65	90	130	280	600
Tray Size [mm]	295×270	410×340	445×420	555×610	625×780
Internal Dimension [mm]	300x 300 x 275	415 x 370 x 345	450 x450 x450	560x640x600	630 x 810 x845
External Dimension [mm]	580 x 450 x 450	720x 525 x 535	615 x 590 x 635	730×860×900	950x 950 x 1115

TURNKEY SOLUTION



- Cold Trap
- Vacuum Pump
- Vacuum Drying Oven

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