



# LYOPHIL500 Benchtop Lyophilizer Freeze Dryer



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Catalogue

## Bench-top Lyophilizer Series LYOFIL500

- 7" True-color Touch Screen, display process drying curve, history curve, vacuum, time, temperature of the ice chamber section,
- Suitable for freezing in round bottles, filter bottles wide neck, on tray without heating
- USB disk Can storage lyophilized data; /RS232
- Upload software can print curve;
- Embedded circuit design, 128 M FLASH, can save dozen times Lyophilized data;
- Large opening trap, no coil inside, with samples pre-freeze function
- Low noise compressor air cooled
- Cold trap and control panel were made by stainless steel, corrosion-resistant, easy to clean
- Transparent Acrylic Bell type drying room, with base Ø240\*295mm with manifold. (Manifold is for series 502 and 503)
- Sample holder, common sample plate spacing adjustable
- Small size and easy to operate
- Nitrogen inflation valve within
- Ice chamber with defrosting valve



**Temperature range up to  $< -56^{\circ}\text{C}$**

Wi-Fi temperature control - optional



**LCD Color Touch Screen**



**Small size and easy to operate**



**Vacuum Pump Included**



**Low Noise Compressor Air Cooled**



Please note

If this Freeze Dryers does not match the specific needs of your application, or some options are not listed for sale, please feel free to contact us. Our manufacturing engineers will come up with technical solutions to meet your needs. We reserve the right to change technical specifications at any time.

Type	LYOPHIL500	LYOPHIL501	LYOPHIL502	LYOPHIL503
Condenser temperature	< -56°C	< -56°C	< -56°C	< -56°C
Freeze Drying Surface Area	0,12 m <sup>2</sup>	0,8 m <sup>2</sup>	0,12 m <sup>2</sup>	0,8 m <sup>2</sup>
No of Al tray for sample	4	3	4	3
Ice capacity	2,5kg/24h			
Ice chamber volume	3,5l			
Base Plate holder	Ø 240mm (1PC)			
Water capture ability/24h	3kg	3kg	3kg	3kg
Cold trap size	Ø215×160 mm			
Sample tray size mm	4*Ø200	3*Ø180mm	4*Ø200mm	3*Ø180mm
Plate load capacity	1,5	1	1,5	1
Interlayer spacing	80mm	80mm	80mm	80mm
Configuration	Standard	Top press	8 pcs Standard multi manifolds	8 pcs Top press multi manifolds
Air filter	built in rechargeable			
Vacuum pump stage	2			
Pump power	180W			
Nominal rotational speed	1500 rpm			
Pumping speed	2,3m <sup>3</sup> /h - 1,4 cfm			
Partially vacuum	- 4 x 10 <sup>-4</sup> mbar			
Vacuum with gas ballast	- 1 x 10 <sup>-2</sup> mbar			
Vacuum absolute	- 2 x 10 <sup>-3</sup> mbar			
Vacuum Sensor	full Integrated with cables 1000-0,001bar			
Vacuum hose with Flange	DN 16/25 ISO-KF			
IP protection	IP40			
Sound level	<43dB(A)			
Ambient temperature	12-40°C			
Oil capacity	100-250ml			
Nozzle/Hose	8/10mm			
Electromagnetic valve	Yes, with stop flow, built in, flange DN 25/25ISO-KF			
Ultimate vacuum	<10Pa	<10Pa	<10Pa	<10Pa
Overall dimension mm	565x420x(360+430)			
NW/GW Weight Kg	80/95	85/100	95/110	100/115
Power	970W			
Power supply	220V-230V / 50-60Hz			