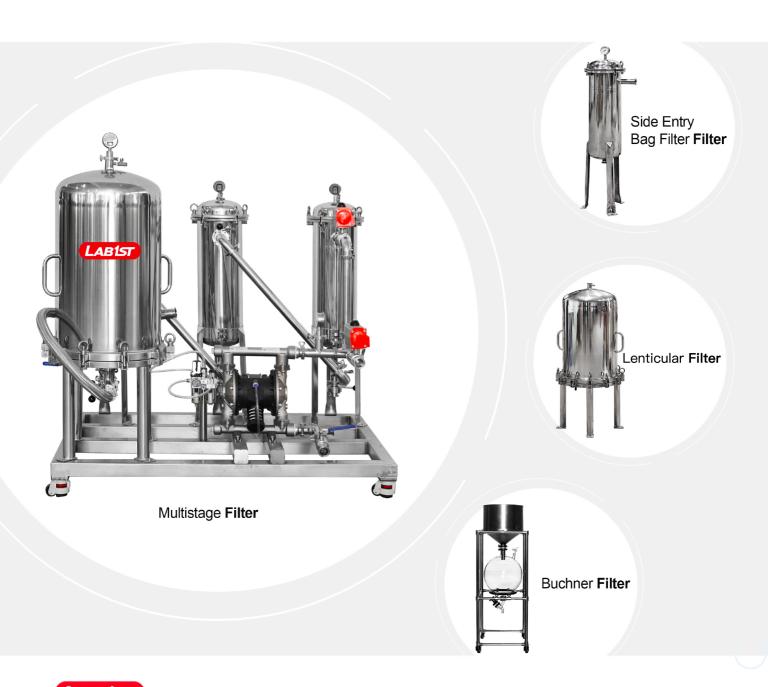


Lab1st Filtration System

/ Laboratory and Processing Equipment





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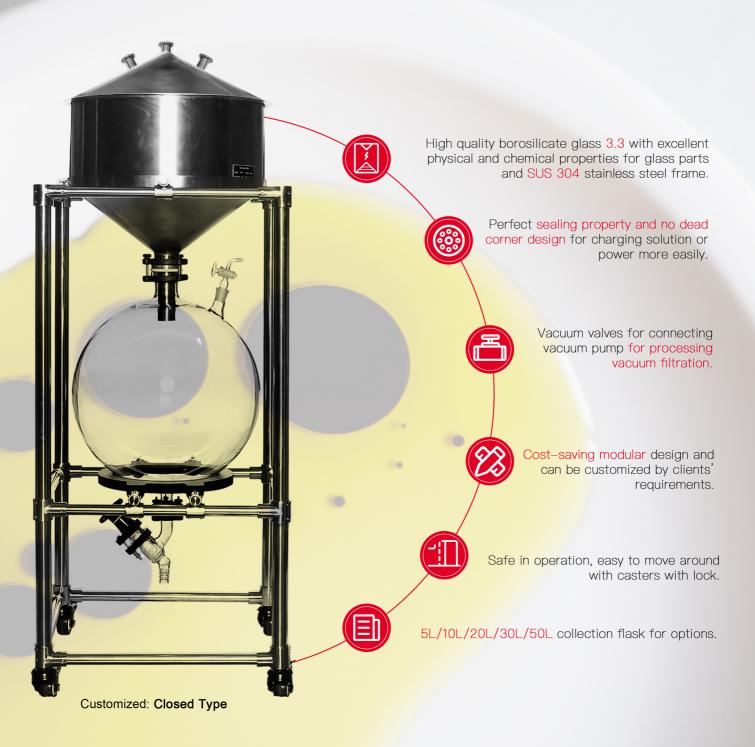
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Buchner Filter

0.5~200um Pore Size (customizable)

Lab1st BF series vacuum filter is a special laboratory filter, it matched with the microporous membrane of different aperture, adopts vacuum suction filter, can be used in the research of chemical analysis, instrumental analysis, sanitary inspection, pharmaceutical industry, and agricultural machinery, automotive, construction machinery and so on for liquid – liquid Extraction or liquid – soild filtration.





BF-10S







Receving Flask Volume [L]	10
Funnel Volume [L]	10
Funnel Size [mm]	Ф300*200
Filter Pore Diameter [mm]	4
Discharge Port	DN25
Vacuum Port	24/29
Drain Port Ground Clearance [mm]	350
Receving Flask Material	High Borosilicate Glass
Funnel Material	SUS304
Weight Dimension	
Unit Dimension [mm]	460*460*1370
Package Weight [Kg]	50

BF-20S







Technical Data	
Receving Flask Volume [L]	20
Funnel Volume [L]	20
Funnel Size [mm]	Ф350*200
Filter Pore Diameter [mm]	4
Discharge Port	DN25
Vacuum Port	24/29
Drain Port Ground Clearance [mm]	390
Receving Flask Material	High Borosilicate Glass
Funnel Material	SUS304
Weight Dimension	
Unit Dimension [mm]	460*460*1480
Package Weight [Kg]	50





BF-50S

BF-30S







Technical Data	
Receving Flask Volume [L]	30
Funnel Volume [L]	30
Funnel Size [mm]	Φ400*240
Filter Pore Diameter [mm]	4
Discharge Port	DN25
Vacuum Port	24/29
Drain Port Ground Clearance [mm]	350
Receving Flask Material	High Borosilicate Glass
Funnel Material	SUS304
Weight Dimension	
Unit Dimension [mm]	600*600*1600
Package Weight [Kg]	71

BF-50S







Receving Flask Volume [L]	50
Funnel Volume [L]	50
Funnel Size [mm]	Ф500*280
Filter Pore Diameter [mm]	4
Discharge Port	DN25
Vacuum Port	24/29
Drain Port Ground Clearance [mm]	300
Receving Flask Material	High Borosilicate Glass
Funnel Material	SUS304
Weight Dimension	
Unit Dimension [mm]	600*600*1600
Package Weight [Kg]	74

BF-100S

Technical Data	
Receving Flask Volume [L]	100
Funnel Volume [L]	100
Funnel Size [mm]	Ф600*400
Filter Pore Diameter [mm]	4
Discharge Port	DN25
Vacuum Port	24/29
Drain Port Ground Clearance [mm]	300
Receving Flask Material	High Borosilicate Glass
Funnel Material	SUS304
Weight Dimension	
Unit Dimension [mm]	750*750*1700
Package Weight [Kg]	106



Side Entry Bag Filter

10um Pore Size (customizable)

Side-entry bag filter is for some coarse filtration and pre-filtration process. The side entry structure is a economical and reasonable design which can effectively save space of the filter. Furthermore, the pressure ring and the spring ensure good seal between the filter and the filter bag. With adjustable legs, the installation size can be adjusted according to the requirements of the particular spot.



Standard with 10um filter pore size (customizable)



With adjustable legs, easy to installation



Side entry structure, effectively save the filter space



Pressure ring and the spring ensure good sealing

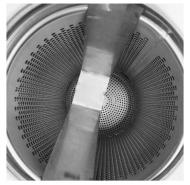


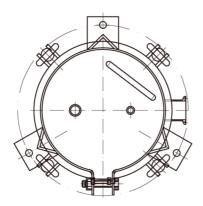
Used for some coarse filtration and pre-filtration process

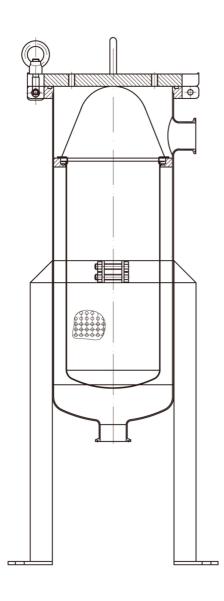






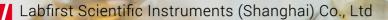






Model	SBF-1	SBF-2
Technical Data		
Filter Bag	Ø180×430	Ø180×810
Design Pressure	1.0 MPa	
Max. Working Pressure	0.6 MPa	
Max. Working Temperature	150 °C	
Min. Working Temperature	Around -40°C	
Max. Flow	20	40
Filter Hole Diameter	10um/ 5um/ 1um (1∼200µm customizab	
Total Height [mm]	990	1365
Length [Inlet to Center, mm]	147	147
Shell Diameter [mm]	204	204
Hight [Inlet to Ground, mm]	835	1205
Hight [Outlet to Ground, mm]	250	250
Adjustable Support Height [mm]	500	800
Fluid Inlet/Outlet Interface	50.5 Tr	i-clamp
Vacuum Gauge Interface	M14	X 1.5
Deflation Valve	1/-	4 in
Shell Material	304/	316L
Eyebolt Material	304	
Adjustable Support	3	04
Filter Bag Material	PP, [PTFE o	customizable]
Sealing/ Gasket Material	EPDM, PTFE,	Viton, Silicone

Model	SBF-3	SBF-4
Technical Data		
Filter Bag	Ø105×230	Ø105×380
Design Pressure	1.0	MPa
Max. Working Pressure	0.6 MPa	
Max. Working Temperature	150 °C	
Min. Working Temperature	Around -40°C	
Max. Flow	6	12
Filter Hole Diameter	10um/ 5um/ 1um (1~200µm customizable	
Total Height [mm]	525	635
Length [Inlet to Center, mm]	92	92
Shell Diameter [mm]	114	114
Hight [Inlet to Ground, mm]	445	555
Hight [Outlet to Ground, mm]	300	300
Adjustable Support Height [mm]	300	400
Fluid Inlet/Outlet Interface	50.5 Tri-clamp	
Vacuum Gauge Interface	M14 X 1.5	
Deflation Valve	1/	4 in
Shell Material	304/316L	
Eyebolt Material	304	
Adjustable Support	304	
Filter Bag Material	PP, [PTFE	customizable]
Sealing/ Gasket Material	EPDM, PTFE, Viton, Silicone	





Lenticular Filter

1um Pore Size (customizable)



Different filter pore sizes: 10um. 5um and 1um



No dead corner with inner mirror polishing

Standard with 2 filter stacks, max. 4 filter stacks available



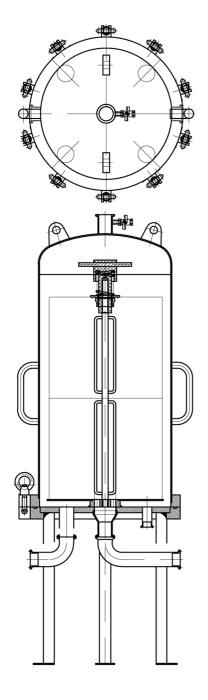
Lower-upper path structure

Special discharge valve in the inlet/outlet, easy to drain

Lab1st LF-series lenficular filler is a new type stacks filter for tiny impurities in varied kinds of liquid filtration, clarification, purification. The structure is designed and manufactured according to the health level. There is no dead corner and mirror polishing, which ensures no residual liquid and easy to clean. LF-series lenticular filter house can install max. 4pcs filter stacks.

Application

- Microbe and solid filtration of alcohol, syrup, beer
- ✓ End filtration of fruit juice and juice concentrates
- ✓ Pre filtering of juice membrane filtration
- Clarification of alcohol, enzyme dissolution, liquid gum, olive oil, pharmaceutical, chemical, electronic filtration.



Model	LF-16-1	LF-16-2
Technical Data		
Design Pressure	1.1	Мра
Max. Working Pressure	1.03	Мра
Max. Working Temperature	140	0 ∘C
Min. Working Temperature	Aroun	d-40 °C
Filter Hole Diameter	Depends on the filter stack	
Filter Stacks (inch)	16	16
Total Height [mm]	1x Stack	2x Stacks
	960	1230
Length [Inlet to Center, mm]	250	
Hight [Inlet/Outlet to Ground, mm]	280	
Shell Diameter [mm]	450	
Fluid Inlet/Outlet Interface	1.5" Tri-clamp	
Vacuum Gauge Interface	1.5" Tri-clamp	
Drain Outlet	1.0" Tri-clamp	
Deflation Valve	1/4"N	NPTF

Model	LF-16-3	LF-16-4
Technical Data		
Design Pressure	1.1	Мра
Max. Working Pressure	1.03 Mpa	
Max. Working Temperature	140	0 °C
Min. Working Temperature	Aroun	d-40 °C
Filter Hole Diameter	Depends on t	the filter stack
Filter Stacks (inch)	16	16
Total Height [mm]	3x Stacks	4x Stacks
	1500	1770
Length [Inlet to Center, mm]	25	50
Hight [Inlet/Outlet to Ground, mm]	280	
Shell Diameter [mm]	450	
Fluid Inlet/Outlet Interface	1.5" Tri-clamp	
Vacuum Gauge Interface	1.5" Tri-clamp	
Drain Outlet	1.0" Tri-clamp	
Deflation Valve	1/4"N	IPTF









Multistage Filter System

1um Pore Size (customizable)

Lab1st filtration skid module is a multistage filtration system that aims to separate solid matter and fluid from a mixture using different filter medium. The skid is usually composed of one bag filter and several lenticular (cake/stacks) filters. Those filters have a complex structure which only the fluid can pass through. The precision of the filtration system can be customized, such us 20um, 10um, 5um and 1um.





Dual-Stage Filtration System

Suggested filtration procedures: $5\mu m \to 1\mu m$

Designed pressure: 1.0MPa
Designed temperature:-40°C~150°C
Max flow: 4m³/h







Technical Data	
Side-entry bag filter number	1
Lenticular filter number	1
Unit Dimension [mm]	1000*600*1500
Unit Weight [Kg]	240
Package Dimension [mm]	1500*700*1600

Triple-Stage Filtration System

Suggested filtration procedures: $10\mu m \to 5\mu m \to 1\mu m$

Designed temperature:-40°C~150°C







Technical Data		
Side-entry bag filter number	2	
Lenticular filter number	1	
Unit Dimension [mm]	1500*600*1500	
Unit Weight [Kg]	270	
Package Dimension [mm]	2000*700*1600	



Quadruple-Stage Filtration System

Suggested filtration procedures: $20\mu m \rightarrow 10\mu m \rightarrow 5\mu m \rightarrow 1\mu m$

Designed pressure: 1.0MPa
Designed temperature:-40°C~150°C

Max flow: 4m³/h







Technical Data	
Side-entry bag filter number	3
Lenticular filter number	1
Unit Dimension [mm]	2000*600*1500
Unit Weight [Kg]	300
Package Dimension [mm]	2500*700*1600



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