

BriScale™ Vacuum Filtration Units



BriScale™ Vacuum Filtration Units

Vacuum filtration systems operate on the principle of negative-pressure filtration, enabling rapid filtration processing of culture media, buffers, biological samples, and other laboratory liquids. A typical vacuum filtration unit consists of a filter funnel, membrane filter, receiver bottle, and vacuum connection. With simple operation and high filtration efficiency, it helps significantly improve laboratory productivity.

Cobetter BriScale™ Vacuum Filtration Units are sterile by gamma irradiation and individually packaged, ready to use. Available in a wide range of configurations, these filtration units feature high flow rates, low protein binding, low extractables, and excellent chemical compatibility. They are well suited for laboratory applications including sterilizing filtration, particulate removal, sample clarification, and microbiological testing.

Membrane Selection Guide

Polyethersulfone (PES)

- High flow rate, high flux, and low protein binding
- Ideal for sterile filtration of culture media, drug intermediates, buffers, protein bulk solutions
- Delivers excellent filtration performance and productivity

Hydrophilic Polyvinylidene Fluoride (PVDF)

- Low protein binding for high product recovery
- Suitable for the filtration of proteins, biological samples, and other valuable biomolecules

Nylon

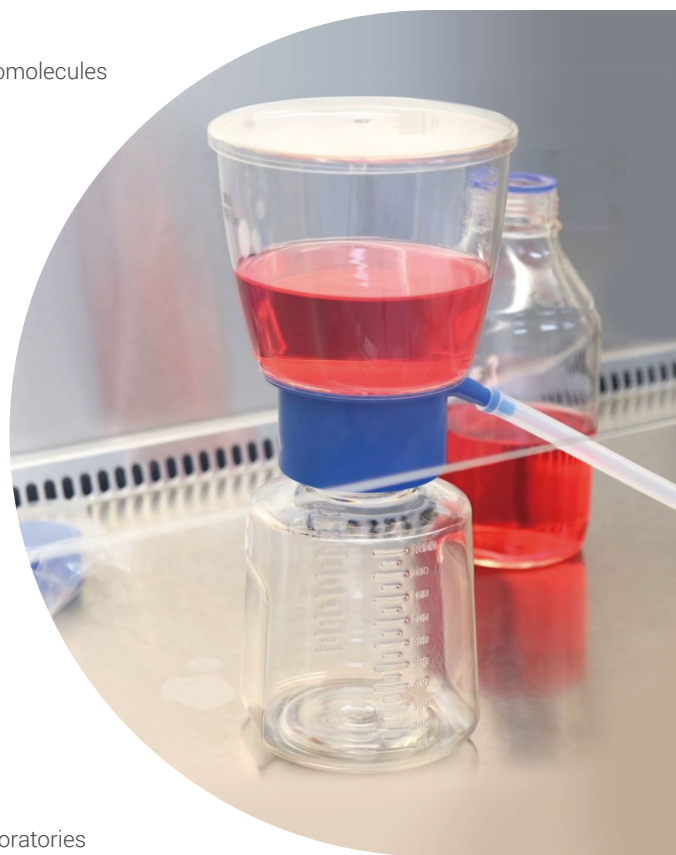
- High-efficiency particle retention and clarification
- Suitable for aqueous and selected organic solutions

Mixed Cellulose Ester (MCE)

- High porosity enables fast flow rates
- Excellent microbial retention performance
- Ideal for the filtration of aqueous solutions and microbiological applications

Typical Applications

- Sterile filtration of cell culture media and tissue culture media
- Filtration of buffers, reagents, and aqueous solutions
- Sample clarification and removal of particulate contaminants
- Routine vacuum filtration in research, pharmaceutical, and biotechnology laboratories



BriScale™ VT Series

150 mL–1 L Vacuum Filtration Units

- Integrated welded funnel and connector design for leak-free performance
- Large filtration area for faster processing
- Lightweight design with a wide-mouth receiver bottle and low center of gravity for easy handling
- High flow rate, high throughput, and low protein adsorption



Radial Spoke Flow Distribution Design

The large-diameter radial spoke flow distribution design increases the effective filtration area and promotes more uniform liquid flow, resulting in higher flux and faster flow rates.



BriScale™ VP Series

50 mL Vacuum Filtration Units

Compatible with standard centrifuge tubes available on the market or Cobetter's small-volume filtration funnels, making sample filtration simpler, faster, and more convenient.



Specifications

Product	BriScale™ Vacuum Filtration Units
EFA	150 / 250 mL : 41.8 cm ²
	500 / 1000 mL : 63.6 cm ²
Membrane and Pore Size	PES: 0.1 / 0.2 / 0.45 / 0.8 / 1.0 µm
	Hydrophilic PVDF: 0.2 / 0.45 µm
	Nylon: 0.2 / 0.45 µm
	MCE: 0.2 / 0.45 / 0.8 µm
Funnel/ Lid/Receiver Bottle	GPPS
Vacuum Tubing Barb/Bottle Cap	HDPE
Funnel-to-Bottle Connector	HIPS
Biocompatibility	Compliance with USP <87> and USP <88>
Sterilization Method	Sterile by Gamma Irradiation



Ordering Information

BriScale™ VTC Vacuum Filtration Units

Part No.	Membrane	Pore size	Volume	Membrane Diameter	Qty/pk
VTC150MLENSP	PES	0.1	150 mL	Φ 73 mm	48/pk
VTC250MLENSP	PES	0.1	250 mL	Φ 73 mm	48/pk
VTC500MLENSP	PES	0.1	500 mL	Φ 90 mm	16/pk
VTC01LMLENSP	PES	0.1	1000 mL	Φ 90 mm	16/pk
VTC150MLEBSP	PES	0.2/0.1	150 mL	Φ 73 mm	48/pk
VTC250MLEBSP	PES	0.2/0.1	250 mL	Φ 73 mm	48/pk
VTC500MLEBSP	PES	0.2/0.1	500 mL	Φ 90 mm	16/pk
VTC01LMLEBSP	PES	0.2/0.1	1000 mL	Φ 90 mm	16/pk
VTC150SCCNSP	PES	0.2	150 mL	Φ 73 mm	48/pk
VTC250SCCNSP	PES	0.2	250 mL	Φ 73 mm	48/pk
VTC500SCCNSP	PES	0.2	500 mL	Φ 90 mm	16/pk
VTC01LSCCNSP	PES	0.2	1000 mL	Φ 90 mm	16/pk
VTC150PCASSP	PES	0.45	150 mL	Φ 73 mm	48/pk
VTC250PCASSP	PES	0.45	250 mL	Φ 73 mm	48/pk
VTC500PCASSP	PES	0.45	500 mL	Φ 90 mm	16/pk
VTC01LPCASSP	PES	0.45	1000 mL	Φ 90 mm	16/pk
VTC150PCAHSP	PES	0.65	150 mL	Φ 73 mm	48/pk
VTC250PCAHSP	PES	0.65	250 mL	Φ 73 mm	48/pk
VTC500PCAHSP	PES	0.65	500 mL	Φ 90 mm	16/pk
VTC01LPCAHSP	PES	0.65	1000 mL	Φ 90 mm	16/pk
VTC150PCALSP	PES	0.8	150 mL	Φ 73 mm	48/pk
VTC250PCALSP	PES	0.8	250 mL	Φ 73 mm	48/pk
VTC500PCALSP	PES	0.8	500 mL	Φ 90 mm	16/pk
VTC01LPCALSP	PES	0.8	1000 mL	Φ 90 mm	16/pk
VTC150PCAPSP	PES	1.0	150 mL	Φ 73 mm	48/pk
VTC250PCAPSP	PES	1.0	250 mL	Φ 73 mm	48/pk
VTC500PCAPSP	PES	1.0	500 mL	Φ 90 mm	16/pk
VTC01LPCAPSP	PES	1.0	1000 mL	Φ 90 mm	16/pk
VTC150SVUNSP	PVDF	0.2	150 mL	Φ 73 mm	48/pk
VTC250SVUNSP	PVDF	0.2	250 mL	Φ 73 mm	48/pk
VTC500SVUNSP	PVDF	0.2	500 mL	Φ 90 mm	16/pk
VTC01LSVUNSP	PVDF	0.2	1000 mL	Φ 90 mm	16/pk
VTC150PVUSSP	PVDF	0.45	150 mL	Φ 73 mm	48/pk
VTC250PVUSSP	PVDF	0.45	250 mL	Φ 73 mm	48/pk
VTC500PVUSSP	PVDF	0.45	500 mL	Φ 90 mm	16/pk
VTC01LPVUSSP	PVDF	0.45	1000 mL	Φ 90 mm	16/pk
VTC150SNCNSP	Nylon	0.2	150 mL	Φ 73 mm	48/pk
VTC250SNCNSP	Nylon	0.2	250 mL	Φ 73 mm	48/pk
VTC500SNCNSP	Nylon	0.2	500 mL	Φ 90 mm	16/pk
VTC01LSNCNSP	Nylon	0.2	1000 mL	Φ 90 mm	16/pk
VTC150PNCSSP	Nylon	0.45	150 mL	Φ 73 mm	48/pk
VTC250PNCSSP	Nylon	0.45	250 mL	Φ 73 mm	48/pk
VTC500PNCSSP	Nylon	0.45	500 mL	Φ 90 mm	16/pk
VTC01LPNCSSP	Nylon	0.45	1000 mL	Φ 90 mm	16/pk

BriScale™ VTC Vacuum Filtration Units

Part No.	Membrane	Pore size	Volume	Membrane Diameter	Qty/pk
VTC150SMUNSP	MCE	0.2	150 mL	Φ 73 mm	48/pk
VTC250SMUNSP	MCE	0.2	250 mL	Φ 73 mm	48/pk
VTC500SMUNSP	MCE	0.2	500 mL	Φ 90 mm	16/pk
VTC01LSMUNSP	MCE	0.2	1000 mL	Φ 90 mm	16/pk
VTC150PMUSSP	MCE	0.45	150 mL	Φ 73 mm	48/pk
VTC250PMUSSP	MCE	0.45	250 mL	Φ 73 mm	48/pk
VTC500PMUSSP	MCE	0.45	500 mL	Φ 90 mm	16/pk
VTC01LPMUSSP	MCE	0.45	1000 mL	Φ 90 mm	16/pk
VTC150PMULSP	MCE	0.8	150 mL	Φ 73 mm	48/pk
VTC250PMULSP	MCE	0.8	250 mL	Φ 73 mm	48/pk
VTC500PMULSP	MCE	0.8	500 mL	Φ 90 mm	16/pk
VTC01LPMULSP	MCE	0.8	1000 mL	Φ 90 mm	16/pk

BriScale™ VTF Bottle-Top Filter Only

Part No.	Membrane	Pore size	Volume	Membrane Diameter	Qty/pk
VTF150MLENSP	PES	0.1	150 mL	Φ 73 mm	48/pk
VTF250MLENSP	PES	0.1	250 mL	Φ 73 mm	48/pk
VTF500MLENSP	PES	0.1	500 mL	Φ 90 mm	32/pk
VTF01MLENSP	PES	0.1	1000 mL	Φ 90 mm	32/pk
VTF150MLEBSP	PES	0.2/0.1	150 mL	Φ 73 mm	48/pk
VTF250MLEBSP	PES	0.2/0.1	250 mL	Φ 73 mm	48/pk
VTF500MLEBSP	PES	0.2/0.1	500 mL	Φ 90 mm	32/pk
VTF01MLEBSP	PES	0.2/0.1	1000 mL	Φ 90 mm	32/pk
VTF150SCCNSP	PES	0.2	150 mL	Φ 73 mm	48/pk
VTF250SCCNSP	PES	0.2	250 mL	Φ 73 mm	48/pk
VTF500SCCNSP	PES	0.2	500 mL	Φ 90 mm	32/pk
VTF01LSCCNSP	PES	0.2	1000 mL	Φ 90 mm	32/pk
VTF150PCASSP	PES	0.45	150 mL	Φ 73 mm	48/pk
VTF250PCASSP	PES	0.45	250 mL	Φ 73 mm	48/pk
VTF500PCASSP	PES	0.45	500 mL	Φ 90 mm	32/pk
VTF01LPCASSP	PES	0.45	1000 mL	Φ 90 mm	32/pk
VTF150PCAHSP	PES	0.65	150 mL	Φ 73 mm	48/pk
VTF250PCAHSP	PES	0.65	250 mL	Φ 73 mm	48/pk
VTF500PCAHSP	PES	0.65	500 mL	Φ 90 mm	32/pk
VTF01LPCAHSP	PES	0.65	1000 mL	Φ 90 mm	32/pk
VTF150PCALSP	PES	0.8	150 mL	Φ 73 mm	48/pk
VTF250PCALSP	PES	0.8	250 mL	Φ 73 mm	48/pk
VTF500PCALSP	PES	0.8	500 mL	Φ 90 mm	32/pk
VTF01LPCALSP	PES	0.8	1000 mL	Φ 90 mm	32/pk
VTF150PCAPSP	PES	1.0	150 mL	Φ 73 mm	48/pk
VTF250PCAPSP	PES	1.0	250 mL	Φ 73 mm	48/pk
VTF500PCAPSP	PES	1.0	500 mL	Φ 90 mm	32/pk
VTF01LPCAPSP	PES	1.0	1000 mL	Φ 90 mm	32/pk
VTF150SVUNSP	PVDF	0.2	150 mL	Φ 73 mm	48/pk
VTF250SVUNSP	PVDF	0.2	250 mL	Φ 73 mm	48/pk
VTF500SVUNSP	PVDF	0.2	500 mL	Φ 90 mm	32/pk
VTF01LSVUNSP	PVDF	0.2	1000 mL	Φ 90 mm	32/pk
VTF150PVUSSP	PVDF	0.45	150 mL	Φ 73 mm	48/pk
VTF250PVUSSP	PVDF	0.45	250 mL	Φ 73 mm	48/pk
VTF500PVUSSP	PVDF	0.45	500 mL	Φ 90 mm	32/pk
VTF01LPVUSSP	PVDF	0.45	1000 mL	Φ 90 mm	32/pk
VTF150SNCNSP	Nylon	0.2	150 mL	Φ 73 mm	48/pk
VTF250SNCNSP	Nylon	0.2	250 mL	Φ 73 mm	48/pk
VTF500SNCNSP	Nylon	0.2	500 mL	Φ 90 mm	32/pk
VTF01LSNCNSP	Nylon	0.2	1000 mL	Φ 90 mm	32/pk
VTF150PNCSSP	Nylon	0.45	150 mL	Φ 73 mm	48/pk
VTF250PNCSSP	Nylon	0.45	250 mL	Φ 73 mm	48/pk
VTF500PNCSSP	Nylon	0.45	500 mL	Φ 90 mm	32/pk
VTF01LPNCSSP	Nylon	0.45	1000 mL	Φ 90 mm	32/pk

BriScale™ VTF Bottle-Top Filter Only

Part No.	Membrane	Pore size	Volume	Membrane Diameter	Qty/pk
VTF150SMUNSP	MCE	0.2	150 mL	Φ 73 mm	48/pk
VTF250SMUNSP	MCE	0.2	250 mL	Φ 73 mm	48/pk
VTF500SMUNSP	MCE	0.2	500 mL	Φ 90 mm	32/pk
VTF01LSMUNSP	MCE	0.2	1000 mL	Φ 90 mm	32/pk
VTF150PMUSSP	MCE	0.45	150 mL	Φ 73 mm	48/pk
VTF250PMUSSP	MCE	0.45	250 mL	Φ 73 mm	48/pk
VTF500PMUSSP	MCE	0.45	500 mL	Φ 90 mm	32/pk
VTF01LPMUSSP	MCE	0.45	1000 mL	Φ 90 mm	32/pk
VTF150PMULSP	MCE	0.8	150 mL	Φ 73 mm	48/pk
VTF250PMULSP	MCE	0.8	250 mL	Φ 73 mm	48/pk
VTF500PMULSP	MCE	0.8	500 mL	Φ 90 mm	32/pk
VTF01LPMULSP	MCE	0.8	1000 mL	Φ 90 mm	32/pk



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