

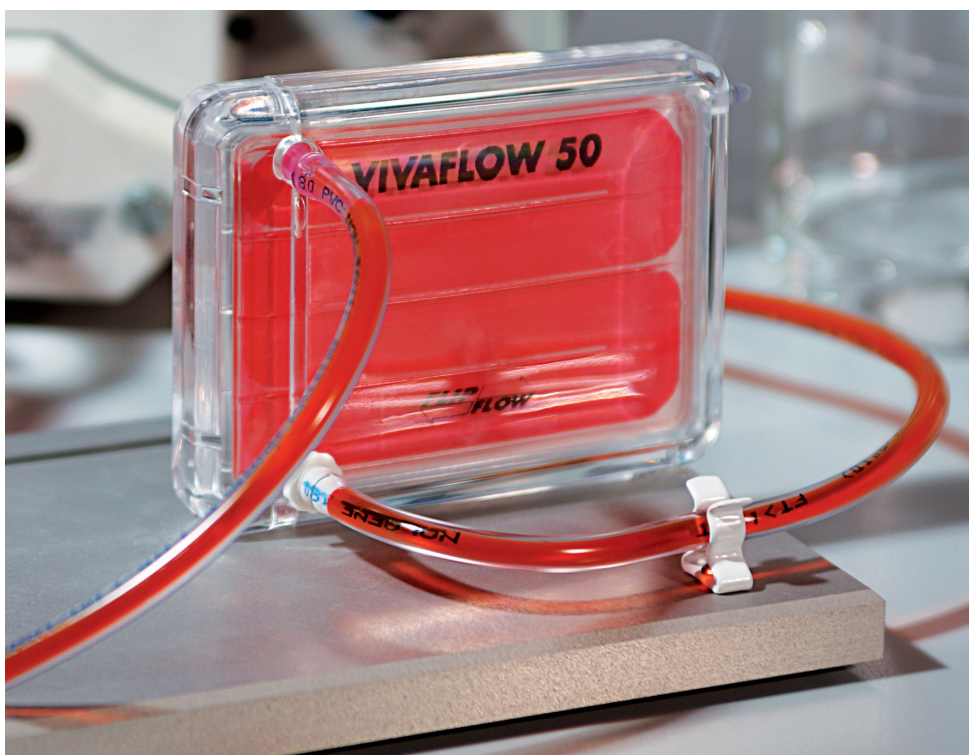


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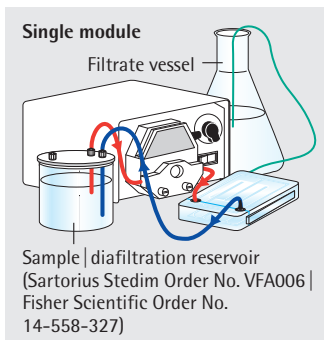
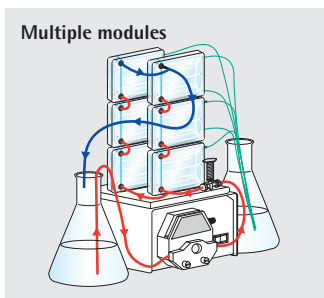
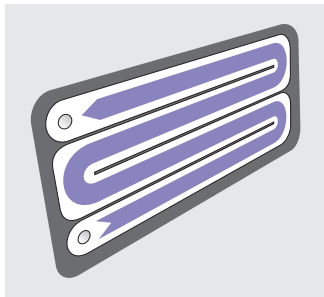
## Vivaflow 50

Protein Concentrators

Protein Concentration



**Fisher Scientific**



### 100 ml to 5 litres

Vivaflow 50 is a system featuring ready-to-use ultrafiltration modules for cross-flow filtration of samples up to 1 Liter. This novel system (patents pending) offers a standard of ease of use, performance, flexibility and economy which is unrivalled by any laboratory or pilot scale filtration system in the market.

### Unique features

- Thin channel flip-flow recirculation path provides high cross flow velocities with minimum pump requirements.
- No need for pressure holders.
- Crystal clear for simple control of remaining hold up and membrane status.
- Unique Interlocking modules with series connectors for easy scale up.
- Disposable.

### Unique performance

- A single 50 cm<sup>2</sup> module will typically reduce 500 ml to less than 15 ml in under 50 minutes.
- Less than 10 ml minimum system recirculation for highest concentrations.
- Less than 500 µl non recoverable hold up volume.
- Near total recoveries achievable with a single 10 ml rinse.

Unique "flip-flow" thin channel flow path results in high turbulence and linear velocity for exceptional flux even at high concentrations.

### Technical specifications Vivaflow 50

Dimensions	Overall L   H   W	107   84   25 mm
	Channel W   H	15 mm   0.3 mm
	Active membrane area	50 cm <sup>2</sup>
	Hold up volume (module)	1.5 ml
	Minimum recirculation volume	< 10 ml
Operating conditions	Non recoverable hold-up	< 0.5 ml
	Pump flow	200-400 ml/min
	Maximum pressure	3 bar (45 psi)
Materials of construction	Maximum temperature	60°C
	Main housing	Polycarbonate
	Flow channel	TPX (PMP)
	Membrane support	TPX (PMP)
	Seals and O rings	Silicone
	Pressure indicator	Polypropylene, SS spring
	Flow restrictor	Polypropylene
	Fittings	Nylon
Tubing	PVC (medical grade)	

### Performance characteristics

#### Time to concentrate up to 20x [min.] at 3 bar inlet pressure, 20°C

	Single device 250 ml start volume	Three devices 1 L start volume	Solute recovery %	
			Direct	10 ml rinse
BSA 1.0 mg/ml (66,000 MW)				
5,000 MWCO PES	34	49	96%	> 99%
10,000 MWCO PES	22	32	94%	> 99%
10,000 MWCO RC	38	55	96%	> 99%
30,000 MWCO PES	22	32	92%	99%
50,000 MWCO PES	20	29	92%	98%
γ Globulins 1.0 mg/ml (160,000 MW)				
100,000 MWCO PES	43	62	92%	98%
100,000 MWCO RC	40	58	92%	98%
Yeast 1.0 mg/ml (S.Cerevisiae)				
0.2 µm PES	33	47	92%	98%

## Ordering information

<b>Vivaflow 50 modules include filtrate tube, size 16 peristaltic tubing, flow restrictor and fittings</b>	<b>Pack size</b>	<b>Sartorius Stedim Order No.</b>	<b>Fisher Scientific Order No.</b>
3,000 MWCO PES	2	VF05P9	14-558-312
5,000 MWCO PES	2	VF05P1	14-558-307
10,000 MWCO PES	2	VF05P0	14-558-306
30,000 MWCO PES	2	VF05P2	14-558-308
50,000 MWCO PES	2	VF05P3	14-558-309
100,000 MWCO PES	2	VF05P4	14-558-310
0.2 µm PES	2	VF05P7	14-558-311
10,000 MWCO RC	2	VF05C0	14-558-304
100,000 MWCO RC	2	VF05C4	14-558-305

## Vivaflow 50 complete system comprises

Pump (115 V), Easy load pump head (size 16), tubing, 500 ml sample   diafiltration reservoir, module stand, pressure indicator, T connectors, series interconnectors	1	VFS504	14-558-341
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## Vivaflow 50 PVC tubing and fittings

Size 16 PVC pump tubing (3 metres, 3.2 × 1.6 mm)	VFA004	14-558-325
Flow restrictor set (2 × 0.4, 0.6, 0.8 mm)	VFA009	14-558-328
T connectors for running 2 stacks (2 pieces)	VFA030	14-558-333
Series interconnectors (6 pieces)	VFA031	14-558-334
Female luer fittings (10 pieces)	VFA032	14-558-335
VF50 tubing Kit (2 × 1 m size 16 PVC tubing with inlet fittings, 2 × 50 cm size 16 PVC tubing with 0.6 mm flow restrictors, 1 × series interconnector)	VFA034	14-558-336
Flow restrictor 0.6 mm (6 pieces)	VFA035	14-558-337

## VivaFlow 50 accessories

Masterflex economy drive variable speed peristaltic pump (115V)	VFP002	14-558-339
500 ml sample and   or diafiltration reservoir	VFA006	14-558-327
Masterflex easy load pump head – size 16	VFA012	14-558-329
Vivaflow 50 stand	VFA016	14-558-331
Pressure indicator (1-3 bar)	VFA020	14-558-332



For customer service, call 1-800-766-7000.  
To fax an order, use 1-800-926-1166.  
To order online: [www.fishersci.com](http://www.fishersci.com)