

Vivaflow 200

0.5 to 5 litres and more

Concentrate 250ml to under 20ml in just a few minutes or concentrate one litre 50 times in less than 30 minutes. Alternatively, use two Vivaflow 200 in parallel and concentrate 5 litres in under 75 minutes.

Near total sample recoveries can be expected with most solutions. Desalting or buffer exchange is just as quick when using the optional recirculation assembly available from Vivascience.

Vivaflow 200 is easy to clean and can be used repeatedly.



Equipment required

The economical standard package comes complete with tubing, pressure control gauge, flow restrictor and high pressure pump tubing. All you need is a peristaltic pump capable of handling 6.4mm OD (size 16) tubing.

Should your pump head require larger tubing, link your own peristaltic tube up to the standard product, using the interconnector provided.



Performance Characteristics				
Start Volume 2 litre at 3 bar inlet pressure at 20°C	Up to 20x Concentration Average Flux		Recovery in %	
	min	ml/min	Direct	25 ml rinse
BSA 1.0 mg/ml (66,000 MW)				
5,000 MWCO PES	29	33	98%	>99%
5,000 MWCO Hydrosart	70	14	98%	>99%
10,000 MWCO PES	23	41	96%	>99%
10,000 MWCO RC	42	23	97%	>99%
10,000 MWCO Hydrosart	35	27	98%	>99%
30,000 MWCO PES	25	38	96%	99%
30,000 MWCO Hydrosart	20	48	96%	>99%
50,000 MWCO PES	22	43	96%	98%
Globulins 1.0 mg/ml				

100,000 MWCO PES	54	18	96%	99%
100,000 MWCO RC	45	21	96%	99%
Yeast 1.0 mg/ml (S. Cerevisiae)				
0.2 µm PES	11	87	92%	98%
Dilute Solute Concentration Start Volume 1 litre at 3 bar, 10,000 MWCO PES				
BSA 0.001mg/ml	18	52	90%	98%
BSA 0.01mg/ml	20	47	92%	98%
BSA 0.1mg/ml	21	45	94%	99%
Start Volume 5 litres (two VF200 in parrallel at 3 bar) 10,000 MWCO PES				
BSA 0.1mg/ml (66,000 MW)	67	70	97%	>99%

Technical Specifications

Active membrane area 200 cm²

Hold up volume 5.3ml

Min recirculation volume <20ml

Non recoverable hold-up <2ml

Materials of Construction

Main housing Acrylic

Membrane support Polypropylene

Seals and o rings Silicone

Pressure gauge Polypropylene, SS Spring

Restrictor assembly Polypropylene

Fittings PP; Nylon and Polysulfone

Tubing PVC (medical grade)

Dimensions

Overall L/H/W 126/138/38mm

Channel W/H 10 mm/0.4 mm

operating conditions

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Pump flow 200-400ml/min

Maximum pressure 4 bar (60psi)

Maximum temperature 45°C

Ordering Information			
	Vivaflow 200	Pack Size	Prod. No.
Includes pressure indicator, flow restrictor and size 16 pvc peristaltic tubing and fittings			
5,000 MWCO PES		1	VF20P1
10,000 MWCO PES		1	VF20P0
30,000 MWCO PES		1	VF20P2
50,000 MWCO PES		1	VF20P3
100,000 MWCO PES		1	VF20P4
0.2 µm PES		1	VF20P7
10,000 MWCO RC		1	VF20C0
100,000 MWCO RC		1	VF20C4
5,000 MWCO Hydrosart		1	VF20H1
10,000 MWCO Hydrosart		1	VF20H0
30,000 MWCO Hydrosart		1	VF20H2

Accessories		
	VivaFlow 200	Prod. No.
Masterflex Economy Drive Variable Speed Peristaltic Pump (CE 230V - US 115V)		VFP001/VFP002
Masterflex Easy Load Pump Head - Size 16		VFA012
Masterflex Easy Load Pump Head - Size 15		VFA013
Vivaflow 50 Recirculation Assembly		VFA001
500 ml sample and/or Diafiltration Reservoir		VFA006
Tubings and Fittings		
Tygon Size 16 pump tubing and luer fittings (3 metres)		VFA004
Tygon Size 15 pump tubing and luer fittings (3 metres)		VFA003



Y Connector (size 14 to 2x size 16)	VFA005
Flow restrictors (set of 2X 0.4, 0.6, 0.8 mm)	VFA009

Equipment Required		
Peristaltic pump	(Single unit)	(2 units in parallel)
Flow range	200 - 400 ml/min	500 - 900 ml/min
Pressure range	1,5 - 3 bar	1,5 - 3 bar
Pump head to accept (bore x wall of tubing)	3.2 x 1.6 mm	4.8 x 2.6 mm
Masterflex size	(LS16)	LS15 (plus Y adapter)
Optional Equipment	Prod. No.	
Sample/ diafiltration reservoir	VFA006	