



sartorius stedim
biotech

Ultrafiltration Family



turning science into solutions

Vivaspin Ultrafiltration Family – sample concentration up to 20 ml

Vivaspin centrifugal concentrators offer the optimal solution to any concentration or buffer exchange application with their broad range of volume capacities and MWCOs.

Highest flow rates and recoveries are achieved due to their particular vertical membrane design.

Incomparably safe sample handling and convenience is assured by the patented dead-stop technology allowing direct recovery of the concentrate without further respin.

Vivaspin applications

- Concentration of biological samples containing antigens, antibodies, enzymes or nucleic acids
- Concentration of diluted protein samples from chromatography eluates
- Desalting or Diafiltration | Buffer exchange
- Sample concentration for crystallization and NMR spectroscopy
- Removal of very small or large contaminants

Feature	Benefit
Vertical, large membrane design	Fast, minimal membrane blocking
Integrated Dead-Stop-Volume	No risk (to concentrate to dryness)
Low-binding materials	High recovery
No Re-spin necessary	Easy handling, fast
Membrane selection	Highest recovery with extremely low-binding Hydrosart® membrane in Vivaspin 2 and Vivaspin 15R
Broad volume range from 0.5 – 100 ml	High volume flexibility
Wide MWCO range from 2 kDa – 0.2 µm	High MWCO flexibility

Special Devices

Sartorius Stedim Biotech offers an extended range of membranes to cover the different ultrafiltration requirements which will typically yield recoveries of the concentrated sample in excess of 90% when the starting sample contains over 0.1 mg/ml of the solute of interest.

For highest recovery, select a membrane MWCO which is at least half to one third of the molecular weight of the solute to be retained.

Highest recovery with extremely low binding Hydrosart® membrane

- The membrane of choice for antibody concentration
- MWCO range from 2 kDa – 30 kDa
- Available in Vivaspin 2 and Vivaspin 15R
- Vivaspin 2 offers choice of membranes: PES, Hydrosart® and CTA

Vivaspin Ultrafiltration Family

Vivaspin 500



500 µl* – 5 µl**

Vivaspin 2



2 ml – 8 µl

Vivaspin 4



4 ml – 20 µl

Vivaspin 6



6 ml – 30 µl

Vivaspin 15



15 ml – 50 µl

Vivaspin 15R



15 ml – 30 µl

Vivaspin 20



20 ml – 50 µl

* Volume ** Dead stop vol.

Ordering information

Vivaspin – PES Membrane

MWCO			3 kDa	5 kDa	10 kDa	30 kDa	50 kDa
Product	Volume	Dead stop vol.					
Vivaspin 500	0.5 ml	5 µl	VS0191 (25)*	VS0111 (25)	VS0101 (25)	VS0121 (25)	VS0131 (25)
			VS0192 (100)	VS0112 (100)	VS0102 (100)	VS0122 (100)	VS0132 (100)
Vivaspin 2	2 ml	8 µl	VS0291 (25)	VS0211 (25)	VS0201 (25)	VS0221 (25)	VS0231 (25)
			VS0292 (100)	VS0212 (100)	VS0202 (100)	VS0222 (100)	VS0232 (100)
Vivaspin 4	4 ml	20 µl		VS0413 (25)	VS0403 (25)	VS0423 (25)	VS0433 (25)
				VS0414 (100)	VS0404 (100)	VS0424 (100)	VS0434 (100)
Vivaspin 6	6 ml	30 µl	VS0691 (25)	VS0611 (25)	VS0601 (25)	VS0621 (25)	VS0631 (25)
			VS0692 (100)	VS0612 (100)	VS0602 (100)	VS0622 (100)	VS0632 (100)
Vivaspin 15	15 ml	50 µl		VS1511 (10)	VS1501 (10)	VS1521 (10)	VS1531 (10)
				VS1512 (40)	VS1502 (40)	VS1522 (40)	VS1532 (40)
Vivaspin 20	20 ml	50 µl	VS2091 (12)	VS2011 (12)	VS2001 (12)	VS2021 (12)	VS2031 (12)
			VS2092 (48)	VS2012 (48)	VS2002 (48)	VS2022 (48)	VS2032 (48)
MWCO			100 kDa	300 kDa	1,000 kDa	0.2 µm	5 of each
Product	Volume	Dead stop vol.					
Vivaspin 500	0.5 ml	5 µl	VS0141 (25)	VS0151 (25)	VS0161 (25)	VS0171 (25)	VS01S1 (25)
			VS0142 (100)	VS0152 (100)	VS0162 (100)	VS0172 (100)	
Vivaspin 2	2 ml	8 µl	VS0241 (25)	VS0251 (25)	VS0261 (25)	VS0271 (25)	VS02S1 (25)
			VS0242 (100)	VS0252 (100)	VS0262 (100)	VS0272 (100)	
Vivaspin 4	4 ml	20 µl	VS0443 (25)			VS0473 (25)	VS04S3 (25)
			VS0444 (100)			VS0474 (100)	
Vivaspin 6	6 ml	30 µl	VS0641 (25)	VS0651 (25)	VS0661 (25)	VS0671 (25)	VS06S1 (25)
			VS0642 (100)	VS0652 (100)	VS0662 (100)	VS0672 (100)	
Vivaspin 15	15 ml	50 µl	VS1541 (10)			VS1571 (10)	VS15S1 (10)
			VS1542 (40)			VS1572 (40)	
Vivaspin 20	20 ml	50 µl	VS2041 (12)	VS2051 (12)	VS2061 (12)	VS2071 (12)	VS20S1 (12)
			VS2042 (48)	VS2052 (48)	VS2062 (48)	VS2072 (40)	

Vivaspin – Hydrosart® Membrane

MWCO			2 kDa	5 kDa	10 kDa	30 kDa
Product	Volume	Dead stop vol.				
Vivaspin 2	2 ml	8 µl	VS02H91 (25)*	VS02H11 (25)	VS02H01 (25)	VS02H21 (25)
			VS02H92 (100)	VS02H12 (100)	VS02H02 (100)	VS02H22 (100)
Vivaspin 15R	15 ml	30 µl	VS15RH91 (12)	VS15RH11 (12)	VS15RH01 (12)	VS15RH21 (12)
			VS15RH92 (48)	VS15RH12 (48)	VS15RH02 (48)	VS15RH22 (48)

Vivaspin – CTA Membrane

MWCO			5 kDa	10 kDa	20 kDa
Product	Volume	Dead stop vol.			
Vivaspin 2	2 ml	8 µl	VS02U1 (25)	VS02V1 (25)	VS02X1 (25)
			VS02U2 (100)	VS02V2 (100)	VS02X2 (100)

Vivaspin Additional Devices

Product Description	Pack size	Order No.
Vivaspin 20 – Diafiltration cups	12	VSA005

* (pack size in parenthesis)

Vivacell Pressure Units – sample concentration up to 250 ml

Vivacell – Put your proteins under pressure! Pressure, Centrifuge, Shaking – the choice is yours.

Sartorius Stedim Biotech offers the Vivacell product range of gas pressure and centrifugal concentrators for sample volumes from 20 ml to 250 ml.

The patented vertical membrane design guarantees highest performance and unmatched flexibility.

Vivacell is a unique and innovative concentrator, that utilizes pressure, centrifuge, shaking or pressure-shake to rapidly concentrate even samples with high particle loading.

Benefit from patented dead-stop technology, high process speed and direct recovery without reverse spin!

Vivacell Family

Vivacell 70 – Centrifugation|Pressure



MWCO	Vivacell 70; Volume = 70 ml; Dead stop vol. = 150 µl
5 kDa	VS6011 (2)*, VS6012 (10)
10 kDa	VS6001 (2), VS6002 (10)
30 kDa	VS6021 (2), VS6022 (10)
50 kDa	VS6031 (2), VS6032 (10)
100 kDa	VS6041 (2), VS6042 (10)
0.2 µm	VS6071 (2), VS6072 (10)

Vivacell 100 – Centrifugation|Pressure



MWCO	Vivacell 100; Volume = 100 ml; Dead stop vol. = 350 µl
5 kDa	VC1011 (2), VC1012 (10)
10 kDa	VC1001 (2), VC1002 (10)
30 kDa	VC1021 (2), VC1022 (10)
50 kDa	VC1031 (2), VC1032 (10)
100 kDa	VC1041 (2), VC1042 (10)
300 kDa	VC1051 (2), VC1052 (10)
1,000 kDa	VC1061 (2), VC1062 (10)
0.2 µm	VC1071 (2), VC1072 (10)

Vivacell 250 – Pressure




MWCO	Vivacell 250; Volume = 250 ml; Dead stop vol. = 600 µl
5 kDa	VC2511 (5)
10 kDa	VC2501 (5)
30 kDa	VC2521 (5)
50 kDa	VC2531 (5)
100 kDa	VC2541 (5)
0.2 µm	VC2571 (5)

* (pack size in parenthesis)

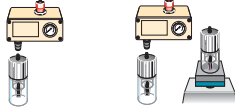
Vivacell – Accessories for different applications


APC

Air pressure Controller	Description	Pack size	Order no.
	Include pressure gauge, regulator, over-pressure safety valve, female connector and 1 m extension line (4 mm pneumatic tubing) with connectors and inlet-tubing	1	VCA002


Vivacell 70

Centrifugation	Description	Pack size	Order no.
	Vivacell centrifuge bottle-standard caps – swing out rotor	4	VSA003
	Modified caps with centrifuge bottle – fixed angle rotor	2	VCA004

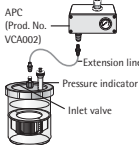
Pressurise Et Pressure-shake	Description	Pack size	Order no.
	Female connector	1	VCA010
	Male connector	1	VCA011
	4 mm pneumatic tubing	1	VCA012
	Pressure head with reservoir and filtrate bottle	1	VCA700

Pressure-fuge	Description	Pack size	Order no.
	Charge valve for pressure-fuge head	1	VCA005
	Vivacell replacement seals for pressure-fuge head	10	VCA007
	Female connector	1	VCA010
	Male connector	1	VCA011
	4mm pneumatic tubing	1	VCA012
	Pressure-fuge head	2	VCA701

Vivacell 100

Pressurise Et Pressure-shake	Description	Pack size	Order no.
	Sanoprene replacement seals	10	VCA014
	Female connector	1	VCA010
	Male connector	1	VCA011
	4 mm pneumatic tubing	1	VCA012
	Pressure head with replacement seals (5)	1	VCA800

Vivacell 250

Pressurise Et Pressure-shake	Description	Pack size	Order no.
	Replacement pressure indicator	1	VCA008
	Vivacell maintenance kit (sample reservoir, filtrate container and "O" ring seals)	1	VCA009
	Female connector	1	VCA010
	Male connector	1	VCA011
	4 mm pneumatic tubing	1	VCA012
	Replacement pressure head Et screw closure	1	VCA015
	Vivacell 250 complete with accessories	1	VCA250
	Vivacell 250 Starter Kit	5	VC25S1

Vivaflow Crossflow Cassettes

Sample concentration up to 5 l

Vivaflow 50



1 l* – 10 ml**

Vivaflow 200



5 l* – 20 ml**

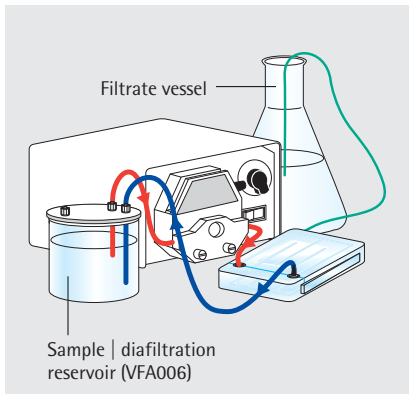
*Volume ** Min. volume

Applications

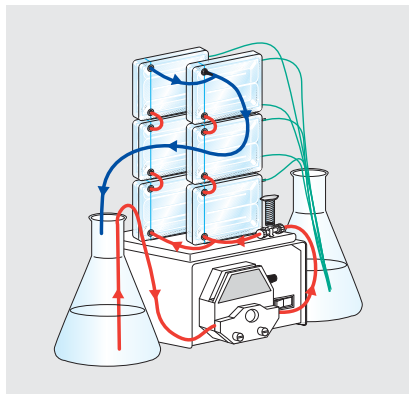
- Concentration of cell culture supernatants
- Concentration of viruses, bacteria, etc.
- Concentration of trace metals from seawater

Vivaflow setup

Vivaflow 50 – Single module



Vivaflow 50 – Multiple modules



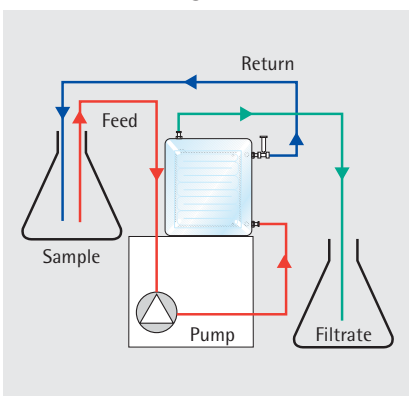
100 ml to 5 litres and more

The novel Vivaflow 50 system (patents pending) provides a standard of ease of use, performance, flexibility and economy which is unrivalled by any laboratory filtration system on the market.

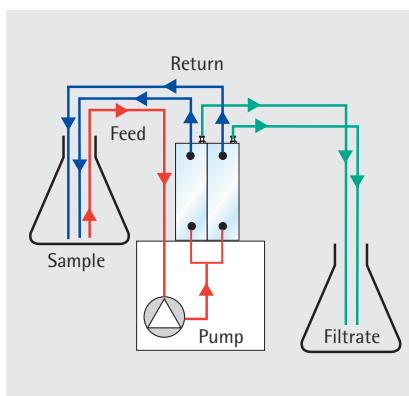
Unique "flip-flow" thin channel flow path results in high turbulence and linear velocity for exceptional flux even at high concentrations.

The Vivaflow 50 is a disposable.

Vivaflow 200 – Single module



Vivaflow 200 – Two modules



0.5 to 5 litres and more

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

Two modules in parallel will concentrate 5 litres in under 75 minutes.

The Vivaflow 200 is easy to clean and can be re-used.

Ordering information

Vivaflow – PES Membrane

MWCO			5 kDa	10 kDa	30 kDa	50 kDa
Product	Volume	Min vol.				
Vivaflow 50	1 l	10 ml	VF05P1 (2)*	VF05P0 (2)	VF05P2 (2)	VF05P3 (2)
Vivaflow 200	5 l	20 ml	VF20P1 (1)	VF20P0 (1)	VF20P2 (1)	VF20P3 (1)
MWCO			100 kDa	0.2 µm		
Product	Volume	Min vol.				
Vivaflow 50	1 l	10 ml	VF05P4 (2)	VF05P7 (2)		
Vivaflow 200	5 l	20 ml	VF20P4 (1)	VF20P7 (1)		

Vivaflow – RC Membrane

MWCO			10 kDa	100 kDa
Product	Volume	Min vol.		
Vivaflow 50	1 l	10 ml	VF05C0 (2)*	VF05C4 (2)
Vivaflow 200	5 l	20 ml	VF20C0 (1)	VF20C4 (1)

Vivaflow – Hydrosart® Membrane

MWCO			5 kDa	10 kDa	30 kDa
Product	Volume	Min vol.			
Vivaflow 200	5 l	20 ml	VF20H1	VF20H0	VF20H2

Vivaflow – Complete system (pump, easy load pump head & tubing)

Product Description	Order No.
Vivaflow 50	VFS504
Vivaflow 200	VFS204

* (pack size in parenthesis)

Sales and Service Contacts

For further contacts, visit www.sartorius-stedim.com

Europe

Germany

Sartorius Stedim Biotech GmbH
August-Spindler-Strasse 11
37079 Goettingen

Phone +49.551.308.0
Fax +49.551.308.3289

www.sartorius-stedim.com

Sartorius Stedim Systems GmbH
Schwarzenberger Weg 73-79
34212 Melsungen

Phone +49.5661.71.3400
Fax +49.5661.71.3702

www.sartorius-stedim.com

France

Sartorius Stedim Biotech S.A.
ZI Les Paluds
Avenue de Jouques – BP 1051
13781 Aubagne Cedex

Phone +33.442.845600
Fax +33.442.845619

Sartorius Stedim France SAS
ZI Les Paluds
Avenue de Jouques – CS 71058
13781 Aubagne Cedex

Phone +33.442.845600
Fax +33.442.846545

Austria

Sartorius Stedim Austria GmbH
Franzosengraben 12
A-1030 Vienna

Phone +43.1.7965763.18
Fax +43.1.796576344

Belgium

Sartorius Stedim Belgium N.V.
Leuvensesteenweg, 248/B
1800 Vilvoorde

Phone +32.2.756.06.80
Fax +32.2.756.06.81

Denmark

Sartorius Stedim Nordic A/S
Hoerskaetten 6D, 1.
DK-2630 Taastrup

Phone +45.7023.4400
Fax +45.4630.4030

Italy

Sartorius Stedim Italy S.p.A.
Via dell'Antella, 76/A
50012 Antella-Bagno a Ripoli (FI)

Phone +39.055.63.40.41
Fax +39.055.63.40.526

Netherlands

Sartorius Stedim Netherlands B.V.
Edisonbaan 24
3439 MN Nieuwegein

Phone +31.30.6025080
Fax +31.30.6025099

Spain

Sartorius Stedim Spain SA
C/Isabel Colbrand 10-12,
Planta 4, Oficina 121
Polígono Industrial de Fuencarral
28050 Madrid

Phone +34.91.3586102
Fax +34.91.3588804

Switzerland

Sartorius Stedim Switzerland GmbH
Lerzenstrasse 21
8953 Dietikon

Phone +41.44.741.05.00
Fax +41.44.741.05.09

U.K.

Sartorius Stedim UK Limited
Longmead Business Park
Blenheim Road, Epsom
Surrey KT19 9 QQ

Phone +44.1372.737159
Fax +44.1372.726171

America

USA

Sartorius Stedim North America Inc.
5 Orville Drive
Bohemia, NY 11716

Toll-Free +1.800.368.7178
Fax +1.631.254.4253

Sartorius Stedim SUS Inc.
1910 Mark Court
Concord, CA 94520

Phone +1.925.689.6650
Toll Free +1.800.914.6644
Fax +1.925.689.6988

Sartorius Stedim Systems Inc.
201 South Ingram Mill Road
Springfield, MO 65802

Phone +1.417.873.9636
Fax +1.417.873.9275

Argentina

Sartorius Argentina S.A.
Int. A. Avalos 4251
B1605ECS Munro
Buenos Aires

Phone +54.11.4721.0505
Fax +54.11.4762.2333

Brazil

Sartorius do Brasil Ltda
Av. Dom Pedro I, 241
Bairro Vila Pires
Santo André
São Paulo
Cep 09110-001

Phone +55.11.4451.6226
Fax +55.11.4451.4369

Mexico

Sartorius de México S.A. de C.V.
Circuito Circunvalación Poniente No. 149
Ciudad Satélite
53100 Naucalpan, Estado de México

Phone +52.5555.62.1102
Fax +52.5555.62.2942

Asia | Pacific

China

Sartorius Stedim Beijing
Representative Office
No. 33, Yu'an Road,
Airport Industrial Zone B, Shunyi District
Beijing 101300

Phone +86.10.80426516
Fax +86.10.80426580

Sartorius Stedim Shanghai
Representative Office
Room 618, Tower 1, German Centre,
Shanghai, PRC., 201203

Phone +86.21.28986393
Fax +86.21.28986392.11

Sartorius Stedim Guangzhou Office
Room 704, Broadway Plaza,
No. 233-234 Dong Feng West Road
Guangzhou 510180

Phone +86.20.8351.7921
Fax +86.20.8351.7931

India

Sartorius Stedim India Pvt. Ltd.
10, 6th Main, 3rd Phase Peenya
KIADB Industrial Area
Bangalore – 560 058

Phone +91.80.2839.1963|0461
Fax +91.80.2839.8262

Japan

Sartorius Stedim Japan K.K.
KY Building, 8-11
Kita Shinagawa 1-chome
Shinagawa-ku
Tokyo 140-0001

Phone +81.3.3740.5407
Fax +81.3.3740.5406

Malaysia

Sartorius Stedim Malaysia Sdn. Bhd.
Lot L3-E-3B, Enterprise 4
Technology Park Malaysia
Bukit Jalil
57000 Kuala Lumpur

Phone +60.3.8996.0622
Fax +60.3.8996.0755

Singapore

Sartorius Stedim Singapore Pte. Ltd.
10, Science Park Road, The Alpha
#02-25, Singapore Science Park 2
Singapore 117684

Phone +65.6872.3966
Fax +65.6778.2494

Australia

Sartorius Stedim Australia Pty. Ltd.
Unit 5, 7-11 Rodeo Drive
Dandenong South Vic 3175

Phone +61.3.8762.1800
Fax +61.3.8762.1828