

Ultrafiltration Family



Vivaspin Ultrafiltration Family – sample concentration up to 20 ml initial volume

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 or enzymes
- 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
Vivaspin Turbo range for fastest concentration speed and highest recoveries	Saving time combined with virtually complete concentrate recovery
Angular dead stop pocket in Vivaspin Turbo range	Easy and complete concentrate recovery due to pipette friendly access
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
Broad volume range from 0.5 – 100 ml	High volume flexibility
Wide MWCO range from 2 kDa – 0.2 μm	High MWCO flexibility

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 Turbo 15



15 ml – 100 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)* VS0192 (100)	VS0111 (25) VS0112 (100)	VS0101 (25) VS0102 (100)	VS0121 (25) VS0122 (100)	VS0131 (25) VS0132 (100)
Vivaspin 2	2 ml	8 µl	VS0291 (25) VS0292 (100)	VS0211 (25) VS0212 (100)	VS0201 (25) VS0202 (100)	VS0221 (25) VS0222 (100)	VS0231 (25) VS0232 (100)
Vivaspin 4	4 ml	20 µl		VS0413 (25) VS0414 (100)	VS0403 (25) VS0404 (100)	VS0423 (25) VS0424 (100)	VS0433 (25) VS0434 (100)
Vivaspin 6	6 ml	30 µl	VS0691 (25) VS0692 (100)	VS0611 (25) VS0612 (100)	VS0601 (25) VS0602 (100)	VS0621 (25) VS0622 (100)	VS0631 (25) VS0632 (100)
Vivaspin Turbo 15	15 ml	100 µl	VS15T91	VS15T11 (12) VS15T12 (48)	VS15T01 (12) VS15T02 (48)	VS15T21 (12) VS15T22 (48)	VS15T31 (12) VS15T32 (48)
Vivaspin 20	20 ml	50 µl	VS2091 (12) VS2092 (48)	VS2011 (12) VS2012 (48)	VS2001 (12) VS2002 (48)	VS2021 (12) VS2022 (48)	VS2031 (12) 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) VS0142 (100)	VS0151 (25) VS0152 (100)	VS0161 (25) VS0162 (100)	VS0171 (25) VS0172 (100)	VS01S1 (25)
Vivaspin 2	2 ml	8 µl	VS0241 (25) VS0242 (100)	VS0251 (25) VS0252 (100)	VS0261 (25) VS0262 (100)	VS0271 (25) VS0272 (100)	VS02S1 (25)
Vivaspin 4	4 ml	20 µl	VS0443 (25) VS0444 (100)			VS0473 (25) VS0474 (100)	VS04S3 (25)
Vivaspin 6	6 ml	30 µl	VS0641 (25) VS0642 (100)	VS0651 (25) VS0652 (100)	VS0661 (25) VS0662 (100)	VS0671 (25) VS0672 (100)	VS06S1 (25)
Vivaspin Turbo 15	15 ml	100 µl	VS15T41 (12) VS15T42 (48)				
Vivaspin 20	20 ml	50 µl	VS2041 (12) VS2042 (48)	VS2051 (12) VS2052 (48)	VS2061 (12) VS2062 (48)	VS2071 (12) VS2072 (40)	VS20S1 (12)

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)* VS02H92 (100)	VS02H11 (25) VS02H12 (100)	VS02H01 (25) VS02H02 (100)	VS02H21 (25) VS02H22 (100)
Vivaspin 15R	15 ml	30 µl	VS15RH91 (12) VS15RH92 (48)	VS15RH11 (12) VS15RH12 (48)	VS15RH01 (12) VS15RH02 (48)	VS15RH21 (12) 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) VS02U2 (100)	VS02V1 (25) VS02V2 (100)	VS02X1 (25) VS02X2 (100)

Vivaspin Additional Devices

Product Description	Qty per box	Order No.
Vivaspin 20 – Diafiltration cups	12	VSA005

* (Qty per box in parenthesis)

Vivacell Pressure Units – sample concentration up to 250 ml initial volume

Vivacell – Put your proteins under pressure! Pressurization, centrifugation or both – the choice is yours.

Sartorius offers the Vivacell product range of pressurizable and centrifugal concentrators for sample volumes from 20 ml to 250 ml.

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

Vivacell products are unique and innovative concentrators that can be pressurized and centrifuged, or a combination of both for fast and safe sample concentration.

Benefit from our patented dead-stop technology, high process speeds and direct concentrate recovery without the need for reverse spinning!

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)

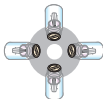
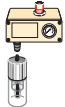
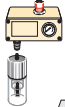



* (Qty per box in parenthesis)

Vivacell – Accessories for different applications






APC

	Air pressure Controller	Description	Qty per box	Order no.
		Includes 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

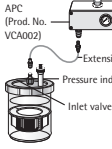
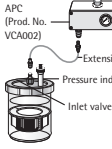
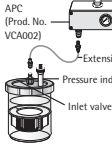
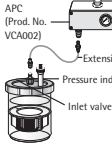
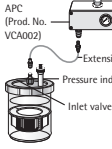
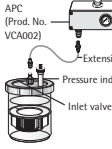
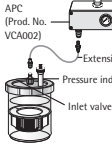
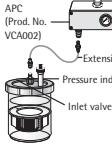
Vivacell 70

	Centrifugation	Description	Qty per box	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	Qty per box	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	Qty per box	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

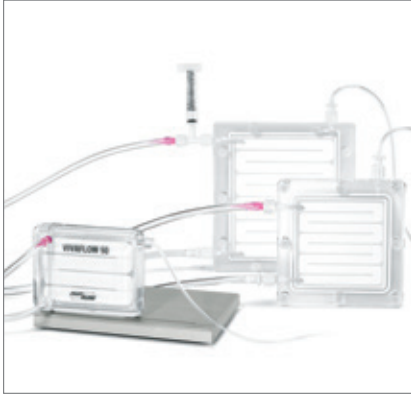
	Pressurise Et Pressure-shake	Description	Qty per box	Order no.
		Sanoprene replacement seals	10	VCA014
		Female connector	1	VCA010
		Male connector	1	VCA011
		4 mm pneumatic tubing	1	VCA012
		Pressure head with replacement seals (5)	1	VCA800

Vivacell 250

	Pressurise Et Pressure-shake	Description	Qty per box	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



Plug and Play Convenience

Vivaflow units provide a standard of ease of use, optimal performance, flexibility and economy which is unrivalled by any crossflow system on the market for laboratory needs.

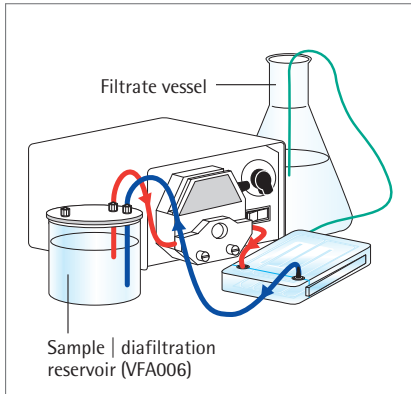
The devices are easy to set up and need only a standard peristaltic pump to operate.

Applications

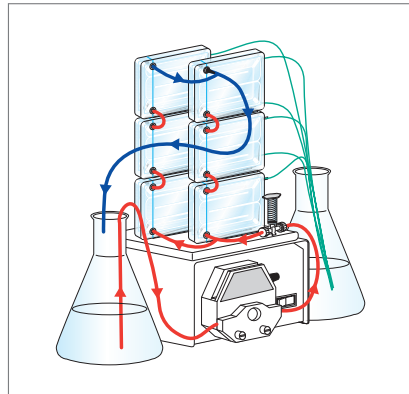
- Antibody | recombinant protein concentration | diafiltration in biopharma research
- Concentration of small production lots of proteins for diagnostic purposes
- Concentration of viruses from cell culture supernatants or of environmental samples
- Nanoparticle concentration

Vivaflow setup

Vivaflow 50 – Single module



Vivaflow 50 – Multiple modules

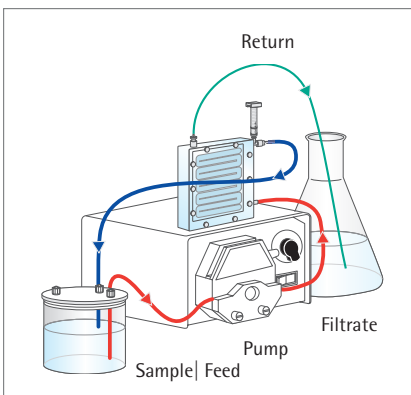


100 ml to 3 liters

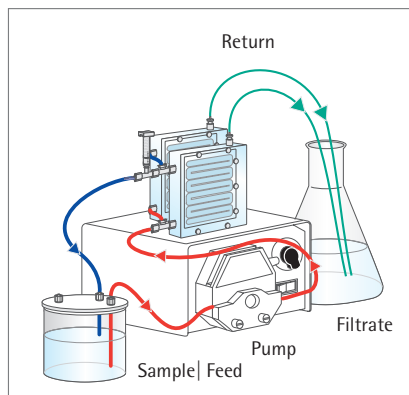
Vivaflow 50 is a disposable, modular crossflow device, which can be easily scaled up to 6 units that run both in parallel and in series.

Vivaflow 50 saves regeneration time and is the economical choice for concentration and buffer exchange of 0.1 ml to 3 l samples containing proteins, viruses and nanoparticles.

Vivaflow 50R – Single module



Vivaflow 50R – Two modules



100 ml to 1 liter

Vivaflow 50R is a reusable crossflow device featuring a unique, low-binding modified regenerated cellulose membrane, Hydrosart®. Therefore, it is the ideal choice for concentrating expensive samples like viruses and antibodies.

Vivaflow 50R can be scaled up with one additional unit to increase the flow speed for concentrating initial sample volumes of up to 1 l.

Ordering information

Vivaflow – PES Membrane

MWCO			3 kDa	5 kDa	10 kDa	30 kDa	50 kDa
Product	Volume**	Min vol.					
Vivaflow 50	3 l	10 ml	VF05P9 (2)*	VF05P1 (2)*	VF05P0 (2)	VF05P2 (2)	VF05P3 (2)
Vivaflow 200	5 l	20 ml	VF20P9 (1)	VF20P1 (1)	VF20P0 (1)	VF20P2 (1)	VF20P3 (1)

MWCO			100 kDa	1000 kDa	0.2 µm
Product	Volume**	Min vol.			
Vivaflow 50	3 l	10 ml	VF05P4 (2)	VF05P6 (2)	VF05P7 (2)
Vivaflow 200	5 l	20 ml	VF20P4 (1)		VF20P7 (1)

Vivaflow – RC Membrane

MWCO			100 kDa
Product	Volume**	Min vol.	
Vivaflow 50	3 l	10 ml	VF05C4 (2)*

Vivaflow – Hydrosart® Membrane

MWCO			2 kDa	5 kDa	10 kDa	30 kDa	100 kDa
Product	Volume**	Min vol.					
Vivaflow 50R	1 l	10 ml		VF05H1	VF05H0	VF05H2	VF05H4
Vivaflow 200	5 l	20 ml	VF 20H9	VF20H1	VF20H0	VF20H2	VF20H4

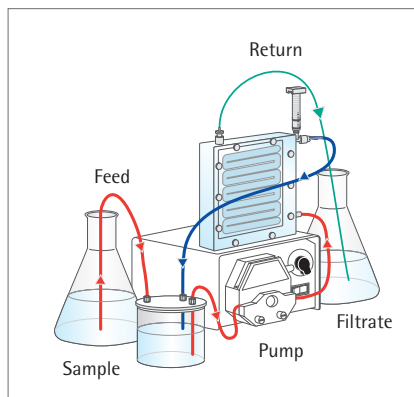
Vivaflow – Complete system (pump, easy load pump head & tubing)

Product Description	Order No.
Vivaflow 50	VFS504
Vivaflow 50R 200	VFS204

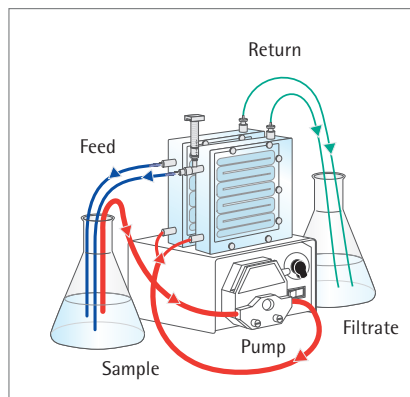
* (Qty per box in parenthesis)

** Volume refers to maximal recommended volume with multiple units

Vivaflow 200 – Single module



Vivaflow 200 – Two modules



0.5 to 5 liters

Vivaflow 200, like Vivaflow 50R, is a reusable crossflow device, but is available in a choice of membranes: regenerated cellulose, Hydrosart® and PES. This device is perfect for concentrating expensive samples like viruses and antibodies. Vivaflow 200 can be scaled up with one additional unit to increase the flow speed for concentrating initial sample volumes of up to 5 l.

Sales and Service Contacts

For further contacts, visit www.sartorius.com

Europe

Germany

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

Phone +49.551.308.0
Fax +49.551.308.3289

Sartorius Stedim Systems GmbH
Robert-Bosch-Strasse 5 – 7
34302 Guxhagen

Phone +49.5665.407.0
Fax +49.5665.407.2200

France

Sartorius Stedim FMT S.A.S.
ZI Les Paluds
Avenue de Jouques – CS 91051
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
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

Hungary

Sartorius Stedim Hungária Kft.
Kagyló u. 5
2092 Budakeszi

Phone +36.23.457.227
Fax +36.23.457.147

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

Poland

Sartorius Stedim Poland Sp. z o.o.
ul. Wrzesinska 70
62-025 Kostrzyn

Phone +48.61.647.38.40
Fax +48.61.879.25.04

Russian Federation

LLC "Sartorius ICR"
Uralskaya str. 4, Lit. B
199155, Saint-Petersburg

Phone +7.812.327.5.327
Fax +7.812.327.5.323

Spain

Sartorius Stedim Spain SA
C/Isabel Colbrand 10,
Oficina 70
Polígono Industrial de Fuencarral
28050 Madrid

Phone +34.90.2110935
Fax +34.91.3589623

Switzerland

Sartorius Stedim Switzerland AG
Ringstrasse 24 a
8317 Tagelswangen

Phone +41.52.354.36.36
Fax +41.52.354.36.46

U.K.

Sartorius Stedim UK Ltd.
Longmead Business Centre
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, Suite 200
Bohemia, NY 11716

Toll-Free +1.800.368.7178
Fax +1.631.254.4253

Argentina

Sartorius Argentina S.A.
Int. A. Ávalos 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, Estado de México
México

Phone +52.5555.62.1102
Fax +52.5555.62.2942

Asia | Pacific

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

China

Sartorius Stedim Biotech (Beijing) Co. Ltd.
No. 33 Yu'an Road
Airport Industrial Park Zone B
Shunyi District, Beijing 101300

Phone +86.10.80426516
Fax +86.10.80426580

Sartorius Stedim Biotech (Beijing) Co. Ltd.
Shanghai Branch Office
3rd Floor, North Wing, Tower 1
No. 4560 Jin Ke Road
Pudong District, Shanghai 201210

Phone +86.21.68782300
Fax +86.21.68782332 | 68782882

Sartorius Stedim Biotech (Beijing) Co. Ltd.
Guangzhou Representative Office
Unit K, Building 23
Huihua Commerce & Trade Building
No. 80 Xianlie Middle Road
Guangzhou 510070

Phone +86.20.37618687 | 37618651
Fax +86.20.37619051

India

Sartorius Stedim India Pvt. Ltd.
#69/2-69/3, NH 48, Jakkasandra
Nelamangala Tq
562 123 Bangalore, India

Phone +91.80.4350.5250
Fax +91.80.4350.5253

Japan

Sartorius Stedim Japan K.K.
4th Fl., Daiwa Shinagawa North Bldg.
8-11, Kita-Shinagawa 1-chome
Shinagawa-ku, Tokyo, 140-0001 Japan

Phone +81.3.4331.4300
Fax +81.3.4331.4301

Malaysia

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

Phone +60.3.8996.0622
Fax +60.3.8996.0755

Singapore

Sartorius Stedim Singapore Pte. Ltd.
1 Science Park Road,
The Capricorn, #05-08A,
Singapore Science Park II
Singapore 117528

Phone +65.6872.3966
Fax +65.6778.2494

South Korea

Sartorius Korea Biotech Co., Ltd.
8th Floor, Solid Space B/D,
PanGyoYeok-Ro 220, Bundang-Gu
SeongNam-Si, GyeongGi-Do, 463-400

Phone +82.31.622.5700
Fax +82.31.622.5799



◀ www.sartorius.com