

Ultrafiltration Family



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

Sample concentration up to 20 ml - Vivaspin Ultrafiltration Family

| Vivaspin 500 | Vivaspin 2 | Vivaspin 4 | Vivaspin 6 | Vivaspin 15 | Vivaspin 15R | Vivaspin 20 |
|---|---|---|---|--|---|---|
|  |  |  |  |  |  |  |
| 600 µl* - 5 µl** | 2 ml - 8 µl | 4 ml - 20 µl | 6 ml - 30 µl | 15 ml - 50 µl | 15 ml - 50 µl | 20 ml - 50 µl |

*Volume **Dead stop vol.

| Vivaspin | |
|--------------------------------------|---|
| 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 0.6 - 100 ml | → High volume flexibility |
| Wide MWCO range from 2 kDa - 0.2 µm | → High MWCO flexibility |

Special Devices

Vivascience 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, CTA and RC

Sample concentration up to 250 ml - Vivacell Pressure Units



Vivacell 70
Centrifugation Pressure
70 ml* - 150 µl**



Vivacell 100
Centrifugation Pressure
100 ml - 350 µl



Vivacell 250
Pressure
250 ml - 600 µl

*Volume **Dead stop vol.

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

Vivascience 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 recovery, direct recovery without reverse spin!

Sample concentration up to 5 l - Vivaflow Cross Flow Cassettes



Vivaflow 50
Pressure
1 l* - 10 ml**



Vivaflow 200
Pressure
5 l - 20 ml

*Volume **Dead stop vol.

Applications

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

Ordering information - Vivacell

| Vivacell - PES Membrane | | | | | | |
|-------------------------|--------|----------------|----------------------------|---------------------------|---------------------------|---------------------------|
| MWCO | | | 5kDa | 10kDa | 30kDa | 50kDa |
| Product | Volume | Dead stop vol. | | | | |
| Vivacell 70 | 70 ml | 150 µl | VS6011 (2)* VS6012 (10) | VS6001 (2) VS6002 (10) | VS6021 (2) VS6022 (10) | VS6031 (2) VS6032 (10) |
| Vivacell 100 | 100 ml | 350 µl | VC1011 (2) VC1012 (10) | VC1001 (2) VC1002 (10) | VC1021 (2) VC1022 (10) | VC1031 (2) VC1032 (10) |
| Vivacell 250 | 250 ml | 600 µl | VC2511 (5) | VC2501 (5) | VC2511 (5) | VC2531 (5) |
| MWCO | | | 100kDa | 300kDa | 1,000kDa | 0.2 µm |
| Product | Volume | Dead stop vol. | | | | |
| Vivacell 70 | 70 ml | 150 µl | VS6041 (2) VS6042 (10) | | | VS6071 (2) VS6072 (10) |
| Vivacell 100 | 100 ml | 350 µl | VC1041 (2) VC1042 (10) | VC1051 (2) VC1052 (10) | VC1061 (2) VC1062 (10) | VC1071 (2) VC1072 (10) |
| Vivacell 250 | 250 ml | 600 µl | VC2541 (5) | | | VC2571 (5) |

**(pack size in parenthesis)*

| Vivacell additional devices | | |
|---|-----------|-----------|
| Product description | Pack size | Order no. |
| Vivacell 70 | | |
| Vivacell 70 centrifuge bottle | 4 | VCA003 |
| Vivacell 70 bottles with caps | 1 | VCA004 |
| Vivacell 70 replacement seals | 1 | VCA007 |
| Vivacell 70 pressure head with bottle | 1 | VCA700 |
| Vivacell 70 pressure-fuge head | 2 | VCA701 |
| Vivacell 100 | | |
| Vivacell 100 concentrator cap | 2 | VCA013 |
| Vivacell 100 santoprene replacement seals | 10 | VCA014 |
| Vivacell 100 pressure head | 1 | VCA800 |
| vivacell 250 | | |
| Vivacell 250 complete set | 1 | VCA250 |
| Vivacell 250 PES 5 EA MWCO | 5 | VC25S1 |
| Vivacell 250 maintenance kit | 1 | VCA009 |
| Common pressure accessories | | |
| Air Pressure Controller (APC) | 1 | VCA002 |
| Charge valve for pressure-fuge head | 1 | VCA005 |
| Female coupling quick disconnect | 1 | VCA010 |
| Male tube coupling | 1 | VCA011 |
| 4mm OD pressure tube 3m | 1 | VCA012 |
| Pressure inductor pressure valve | 1 | VCA008 |
| Replacement pressure head and screw closure | 1 | VCA015 |

Ordering information - Vivaspin

| Vivaspin - PES Membrane | | | | | | | |
|-------------------------|--------|----------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| MWCO | | | 3kDa | 5kDa | 10kDa | 30kDa | 50kDa |
| Product | Volume | Dead stop vol. | | | | | |
| Vivaspin 500 | 0.6 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 | 20 µl | VS0691 (25) VS0692 (100) | VS0611 (25) VS0612 (100) | VS0601 (25) VS0602 (100) | VS0621 (25) VS0622 (100) | VS0631 (25) VS0632 (100) |
| Vivaspin 15 | 15 ml | 50 µl | | VS1511 (10) VS1512 (40) | VS1501 (10) VS1502 (40) | VS1521 (10) VS1522 (40) | VS1531 (10) VS1532 (40) |
| 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 | | | 100kDa | 300kDa | 1,000kDa | 0.2 µm | 5 of each |
|--------------|--------|----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|
| Product | Volume | Dead stop vol. | | | | | |
| Vivaspin 500 | 0.6 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 | 20 µl | VS0641 (25) VS0642 (100) | VS0651 (25) VS0652 (100) | VS0661 (25) VS0662 (100) | VS0671 (25) VS0672 (100) | VS06S1 (25) |
| Vivaspin 15 | 15 ml | 50 µl | VS1541 (10) VS1542 (40) | | | VS1571 (10) VS1572 (40) | VS15S1 (10) |
| Vivaspin 20 | 20 ml | 50 µl | VS2041 (12) VS2042 (48) | VS2051 (12) VS2052 (48) | VS2061 (12) VS2062 (48) | VS2071 (12) VS2072 (40) | VS20S1 (12) |

**(pack size in parenthesis)*

| Vivaspin - Hydrosart Membrane | | | | | | |
|-------------------------------|--------|----------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| MWCO | | | 2kDa | 5kDa | 10kDa | 30kDa |
| Product | Volume | Dead stop vol. | | | | |
| Vivaspin 2 | 2 ml | 5 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 - RC Membrane | | | | | | |
|------------------------|--------|----------------|-----------------------------|-----------------------------|-----------------------------|--|
| MWCO | | | 10kDa | 30kDa | 100kDa | |
| Product | Volume | Dead stop vol. | | | | |
| Vivaspin 2 | 2 ml | 5 µl | VS02K1 (25) VS02K2 (100) | VS02L1 (25) VS02L2 (100) | VS02M1 (25) VS02M2 (100) | |

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

**(pack size in parenthesis)*

| Vivaspin Additional Devices | | |
|----------------------------------|-----------|-----------|
| Product Description | Pack size | Order No. |
| Vivaspin 20 | | |
| Diafiltration cups - Vivaspin 20 | 12 | VSA005 |

Ordering information - Vivaflow

| Vivaflow - PES Membrane | | | | | | |
|-------------------------|--------|----------|-------------|------------|------------|------------|
| MWCO | | | 5kDa | 10kDa | 30kDa | 50kDa |
| 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 | | | 100kDa | 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) | | |

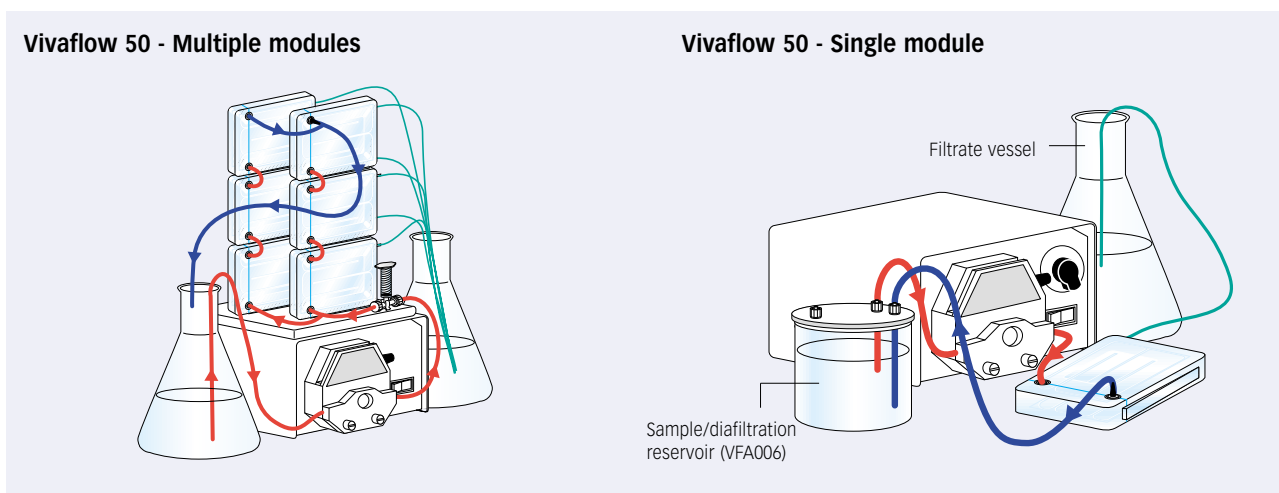
**(pack size in parenthesis)*

| Vivaflow - RC Membrane | | | | | | |
|------------------------|--------|----------|-------------|------------|------------|--|
| MWCO | | | 10kDa | 30kDa | 100kDa | |
| Product | Volume | Min vol. | | | | |
| Vivaflow 50 | 1 l | 10 ml | VF05C0 (2)* | VF05C2 (2) | VF05C4 (2) | |
| Vivaflow 200 | 5 l | 20 ml | VF20C0 (1) | VF20C2 (1) | VF20C4 (1) | |

**(pack size in parenthesis)*

| Vivaflow - Complete system (pump, easy load pump head & tubing) | | Order No. |
|---|--|-----------|
| Product Description | | |
| Vivaflow 50 | | VFS504 |
| Vivaflow 200 | | VFS204 |

Vivaflow setup



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