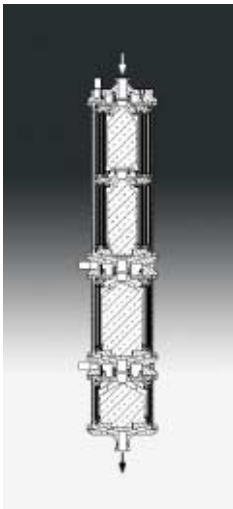


Sartobind® MultiSep

Process Scale Membrane Adsorbers Ion Exchange



Sartobind MultiSep modules can be run in series and parallel to achieve steeper breakthrough:
Demmer, W., and Nussbaumer, D., Large Scale Membrane Adsorbers. *J. Chromatography, A*, 852, 73-81 (1999).



Sartobind MultiSep product family



Sartobind MA 75 downscale units with 4 mm bed height

Sartobind MultiSep is a membrane chromatography system for the purification of biomolecules in the pharmaceutical and biotech industry. The technology combines the advantages of conventional chromatography columns in terms of separation power and capacity with membrane technology regarding mass transfer, high throughput and robustness. Sartorius Membrane Adsorbers are used e.g. for the purification of therapeutic proteins, antibodies and viruses and for the removal of contaminants such as DNA, endotoxins, host cell proteins and viruses.

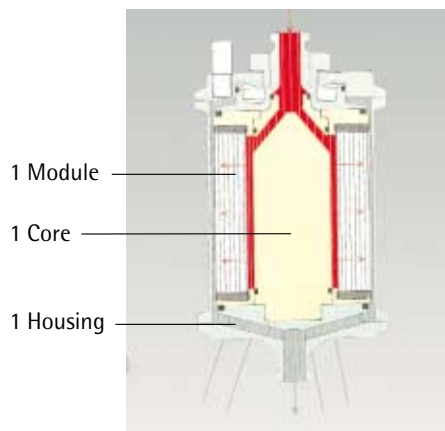
- Simple set up
- High chemical stability (regeneration in 1 N NaOH, storage 0.1 N NaOH)
- Robust: no trouble with air entrapment, channeling or bed cracking
- Membrane pore size of >3 µm allows separation of large biomolecules and even viruses
- Low set up and down times
- 20–100 times faster than conventional columns without sacrificing capacity
- Low cycle times = less product loss
- Reusable
- Validation and Extractables Guides available
- Scalable

Related products for production

- Sartobind SingleSep capsules
- Sartobind Epoxy MultiSep
- Sartobind IDA MultiSep
- Sartobind rProtein A MultiSep
- Sartobind Aldehyde MultiSep
- Sartobind MultiSep plastic containers
- Sartobind MA units laboratory scale

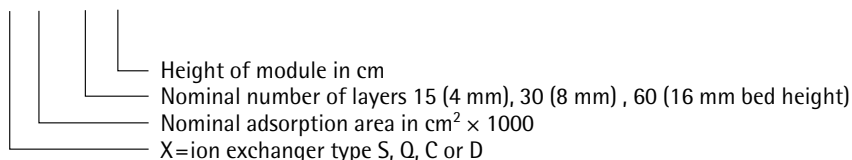
Sartorius Membrane Adsorbers

For a complete MultiSep system you need:



Technical Data

| Order no. modules | Order no. cores | Order no. housings* | Flow rate [l/min × 100 kPa] | Nominal protein binding capacity [g] | Bed volume [ml] |
|-------------------|-----------------|---------------------|-----------------------------|--------------------------------------|-----------------|
| 91-X-01K-15-03 | 90-CR-PO15-03 | 90-HS-PO - - - 03 | 0.4–0.6 | 0.7–1 | 35 |
| 91-X-02K-15-06 | 90-CR-PO15-06 | 90-HS-PO - - - 06 | 0.8–1.3 | 1.5–2 | 70 |
| 91-X-05K-15-12 | 90-CR-PO15-12 | 90-HS-PO - - - 12 | 1.7–2.6 | 3–4 | 140 |
| 91-X-10K-15-25 | 90-CR-PO15-25 | 90-HS-PO - - - 25 | 3.4–5.1 | 6–8 | 280 |
| 91-X-20K-15-50 | 90-CR-PO15-50 | 90-HS-PO - - - 50 | 6.8–10 | 12–16 | 560 |
| 91-X-02K-30-03 | 90-CR-PO30-03 | 90-HS-PO - - - 03 | 0.2–0.3 | 1.5–2 | 72 |
| 91-X-05K-30-06 | 90-CR-PO30-06 | 90-HS-PO - - - 06 | 0.4–0.6 | 3–4 | 144 |
| 91-X-10K-30-12 | 90-CR-PO30-12 | 90-HS-PO - - - 12 | 0.8–1.1 | 6–8 | 288 |
| 91-X-20K-30-25 | 90-CR-PO30-25 | 90-HS-PO - - - 25 | 1.5–2.2 | 12–16 | 575 |
| 91-X-40K-30-50 | 90-CR-PO30-50 | 90-HS-PO - - - 50 | 3.0–4.5 | 24–32 | 1150 |
| 91-X-05K-60-03 | 90-CR-PO60-03 | 90-HS-PO - - - 03 | 0.08–0.12 | 3–4 | 133 |
| 91-X-10K-60-06 | 90-CR-PO60-06 | 90-HS-PO - - - 06 | 0.16–0.24 | 6–8 | 266 |
| 91-X-20K-60-12 | 90-CR-PO60-12 | 90-HS-PO - - - 12 | 0.3–0.5 | 12–16 | 533 |
| 91-X-40K-60-25 | 90-CR-PO60-25 | 90-HS-PO - - - 25 | 0.6–0.9 | 24–32 | 1065 |
| 91-X-80K-60-50 | 90-CR-PO60-50 | 90-HS-PO - - - 50 | 1.3–1.9 | 48–64 | 2130 |



Minimum static binding capacity was measured with bovine serum albumin and lysozyme: 0.6 mg/cm² for D = Diethylamine, C = Carboxylic acid, and 0.8 mg/cm² for Q = Quaternary ammonium, S = Sulfonic acid and hen egg.

* Instead of PO (Polyoxymethylene) use SD when ordering stainless steel housings.

Sartorius AG
 Weender Landstrasse 94–108
 37075 Goettingen, Germany
 Phone +49.551.308.0
 Fax +49.551.308.3289
 www.sartorius.com

USA +1.631.2544249
 UK +44.1372.737100
 France +33.1.69192100
 Italy +39.055.634041
 Spain +34.91.3586100
 Japan +81.3.33293366

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