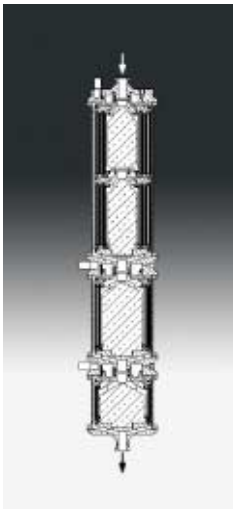


Sartobind® System

Process Scale Membrane Adsorbers Ion Exchange



Sartobind reusable 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 System product family



Downscale unit with 4 mm bed height, 2.1 ml bed volume

Sartobind System is a membrane chromatography platform for the purification of biomolecules in the pharmaceutical and biotech industries. The technology combines the advantages of conventional chromatography columns in terms of separation power and capacity with membrane technology regarding negligible mass transfer, high throughput and robustness. Sartorius Membrane Adsorbers are used e.g. for the purification of therapeutic proteins, antibodies, viruses, DNA, oligonucleotides and blood coagulation factors.

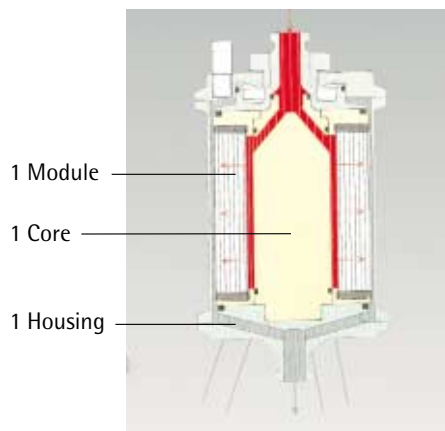
- Simple set up
- High chemical stability (sanitisation in 1 N NaOH, storage in 20% ethanol in binding buffer)
- Robust: no trouble with air entrapment, channeling or bed cracking
- Membrane pore size of >3 µm allows separation of large biomolecules and even viruses
- Low set up and down times
- 20–100 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 modules
 Sartobind IDA modules
 Sartobind rProtein A modules
 Sartobind Aldehyde modules
 Sartobind storage containers for modules
 Sartobind MA units laboratory scale

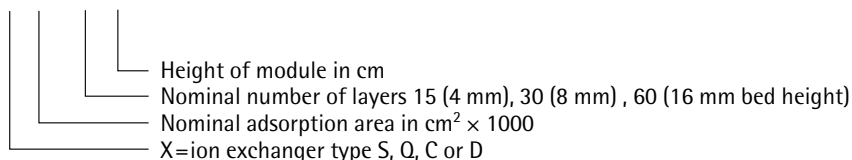
Sartorius Membrane Adsorbers

For a complete Sartobind 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 amine, S = Sulfonic acid. For downscale trials use Sartobind MA 75.

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

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