



SARTOFLOW[®] Advanced

Full Flexibility and Outstanding Crossflow
Filtration Performance Combined



- Ultra-, Micro- & Diafiltration applications
- Linear scale up from 0.1 to 2.1 m² membrane area
- Stainless steel vessel or single-use bags

SARTOFLOW® Advanced



The SARTOFLOW® Advanced is a modular benchtop crossflow system optimized for ultrafiltration, microfiltration and diafiltration applications used in many downstream processes, such as purification of vaccines, monoclonal antibodies and recombinant proteins.

The system is suitable for flexible use in laboratory environments for process development and clinical trials as well as for small-scale production batches. Several standardized options are available to enable you to obtain just the right system exactly tailored to meet your individual requirements. The system can also be upgraded with additional options if your requirements change during process development or production.

A cylindrical 10 l stainless steel tank with a conical base – with or without a sight glass for visual monitoring – and a double-jacket vessel for cooling, or a bag stand for 5 l, 10 l, or 20 l single-use crossflow bags are available as recirculation modules.

This Crossflow system is equipped with our proven DCU-4 control unit that readily communicates with Sartorius' BioPAT® SCADA, MFCS software.

The SARTOFLOW® Advanced can be configured to accept either Sartocon® Slice or full-sized Sartocon® cassettes. As a result, this gives you an exceptionally wide range of membrane surface areas. Since all Sartocon® crossflow cassettes have the same hydrodynamic flow path length, the SARTOFLOW® Advanced can be linearly scaled up from 0.1 to 2.1 m² of membrane area. Its unique compact design has an ultra-low loop volume of ~200 ml, making it possible to concentrate even small process batches.

The SARTOFLOW® Advanced can be run in demanding production environments. Moreover, the unit and its touch screen is built to withstand continuous use in both under laboratory and production conditions.

Technical Specifications

Pump output	700 l/h @ 4 bar (60 psi)
Filter area	0.1–0.5 m ² (Optional 0.6–2.1 m ²)
Minimum recirculation volume	~ 200 ml
Max. inlet pressure	4 bar (60 psi)
Dimensions (H × L × W)	1,100 mm × 800 mm × 680 mm
Weight	~120 kg (~265 lbs.)
Electrical requirements	230 VAC 50 Hz 2.5 Amp; 120 VAC 60 Hz 4 Amp
IP-Standard	33
Piping connections	Tri-Clamp (1/2")

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

Phone +49.551.308.0
Fax +49.551.308.3289

Specifications subject to change without notice.
Copyright Sartorius Stedim Biotech GmbH.
Printed in the EU on paper bleached without chlorine.
Publication No.: SPC2078-e170202
Order No.: 85037-550-98
Ver. 02 | 2017





Sartocon[®] ECO

Hydrosart[®] and Polyethersulfone Ultrafiltration Cassettes



- Are you facing adsorption problems?
- Do you have concerns with cleaning in place optimisation?
- Is Cellulose based material your preferred material of choice?
- **Hydrosart[®] Membrane is the solution to increase your process performance.**
- **Sartocon[®] ECO Cassettes provide an alternative Ultrafilter which fits into existing Crossflow Systems.**

Sartocon® ECO



Sartocon® ECO incorporates Sartorius' well-established Hydrosart® ultrafilter, which is a stable cross-linked polymer membrane. Hydrosart® is based on hydrophilic cellulose material underline non-protein binding and generally non-fouling. Hydrosart® exhibits extremely high flux under extreme protein loads.

As a result, it features the lowest adsorption, highest pH compatibility and ideal multiple cleaning-in-place recovery rates.

The new Sartocon® ECO ultrafilter series is available with a number of cut off's. This Cassette type combines well known membrane technology together with optimized module geometry. This crossflow filter series designed for ultrafiltration | diafiltration (UF | DF) in biotechnology and pharmaceutical processes can be flexibly used in a number of existing crossflow systems, while enabling the same process parameters to be retained.

Order Information

Sartocon® ECO cassettes for SARTOFLOW® Advanced system

Hydrosart® Ultrafiltration Cassettes

Cut Off	Sartocon® Cassettes 0.7 m ² Filter Area	Sartocon® Slice Cassettes 0.14 m ² Filter Area
10 kD	3M21443907E--SW	3M51443901E--SW
30 kD	3M21445907E--SW	3M51445901E--SW
100 kD	3M21446807E--SW	3M51446801E--SW

Polyethersulfone Ultrafiltration Cassettes

Cut Off	Sartocon® Cassettes 0.7 m ² Filter Area	Sartocon® Slice Cassettes 0.14 m ² Filter Area
10 kD	3M21463907E--SW	3M51463901E--SW
30 kD	3M21465907E--SW	3M51465901E--SW
100 kD	3M21466807E--SW	3M51466801E--SW
300 kD	3M21467907E--SW	3M51467901E--SW

For further cassette formats please visit our webpage.

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

Phone +49.551.308.0
Fax +49.551.308.3289

Specifications subject to change without notice.
Copyright Sartorius Stedim Biotech GmbH.
Printed in the EU on paper bleached without chlorine.
Publication No.: SPC2078-e170202
Order No.: 85037-550-98
Ver. 02 | 2017

