

Sartoflow® Alpha DL Crossflow System

Crossflow system with datalogger (DL) for Sartoco® Slice cassettes



Description

The family of Sartoflow Alpha benchtop systems feature the latest advances in crossflow technology from Sartorius. It is designed to fulfill all requirements of small scale crossflow filtration systems for Micro- and Ultrafiltration in pharmaceutical and biotech applications. It is mainly used in cGMP facilities to run Scale-Up and Scale-Down trials as well as clinical trial and small scale production lots. The system is designed to accommodate up to 5 Sartorius Sartoco Slice Cassettes (max. 0.5 m² membrane area). The design and engineering of this modular system is equivalent to large scale production systems.

Sartoflow Alpha DL features digital display and 21CFR Part11 compliant acquisition of the process parameters via a digital data recorder. Log-In functions and password protection for user mapping are included. The audit trail and all process data are securely transferred to an external computer for read out and data storage. Data transfer via serial interface or PCMCIA data storage card is possible.

The modular Sartoflow Alpha DL system allows a large variety of options to fulfill all needs of cGMP production processes. Even automatic diafiltration with an external peristaltic pump controlled by a platform balance is possible.

All Sartoflow Alpha DL systems can use Sartorius recirculation bags instead of stainless steel tanks.

The basic features of all Sartoflow Alpha DL systems are:

- 21CFR Part11 compliant data recorder
- Rotary lobe pump for shear sensitive and reliable operation (500 l/h at 4 bar, 1 cP, 20°C)
- Sartoco Slice filter holder for up to 5 Sartoco Slice Cassettes (0.5 m² membrane area)
- Min. working volume < 400 ml (depending on filter area and accessories)
- Tubular, zero dead leg, pressure gauges
- Magnetic flow meter
- Sanitary membrane valves and Tri-clamp connectors
- Overpressure protection
- Self draining, zero dead leg piping
- Qualified material in contact with product: 316L (1.4404/1.4435) stainless-steel, Surface finish Ra: < 0.8 µm
- Gaskets: EPDM (FDA)
- Small footprint benchtop system
- Documentation package for easy start-up

Sartoco Slice cassettes (0.1 m² each) utilize the same parallel leaf design and materials like the Sartoco production scale cassettes (up to 0.7 m² each). This provides the user with predictable performance for large scale processes.

Specifications

Materials of Construction

Product wetted components	316L (1.4404/1.4435) Stainless steel
Surface finish	Ra < 0.8 µm
Connectors	¾" sanitary Tri-clamp flange

Specifications

Pump output	500 l/h @ 4 bar 60 psi
Filter area	0.5 m ²
Max. Inlet pressure	4 bar 60 psi
Min. working volume	< 400 ml (depending on the accessories)
Weight	60 kg (depending on the accessories)
Dimensions (L×W×H)	600×480×580 mm (depending on the accessories)

Sartorius Crossflow Systems

Ordering Informations and Accessories

Sartoflow Alpha DL System
Sartocon Slice holding device,
three pressure indicators
magnetic flow meter
(permeate)
over pressure protection
21CFR Part11 compliant
digital data recorder
220 V|50 Hz: 179SFG-02-00-22
110 V|60 Hz: 179SFG-02-00-11

Sartoflow Alpha DL-Retentate
Flow meter
Sartocon Slice holding device
Three pressure transducers
two magnetic flow meters
(permeate and retentate)
21CFR Part 11 compliant
digital data recorder
220 V|50 Hz: 179SFG-02-02-22
110 V|60 Hz: 179SFG-02-02-11

Sartoflow Alpha
DL-Conductivity
Sartoflow Slice holding device
Three pressure transducers
magnetic flow meter
(permeate)
Conductivity probe (permeate)
Temperature probe
21CFR Part11 compliant
digital data recorder
220 V|50 Hz: 179SFG-02-06-22
110 V|60 Hz: 179SFG-02-06-11

Sartoflow Alpha 179sfg-02-07
DL-Diafiltration
Sartoflow Slice holding device
Three pressure transducers
Magnetic flow meter
(permeate)
Conductivity probe (permeate)
Temperature probe
Platform balance for
recirculation vessel or bag
External diafiltration
peristaltic pump
21CFR Part11 compliant
digital data recorder
220 V|50 Hz: 179SFG-02-07-22
110 V|60 Hz: 179SFG-02-07-11

2 l jacketed tank with 179sfzt01
interconnection piping
and zero dead leg
harvest valve

10 l jacketed tank with 179sfzt02
interconnection piping
and zero dead leg
harvest valve

Complete IQ/OQ package and additional
options on request

Ultrasart Cassettes

Membrane Material	Nominal Molecular Weight Cutoff [NMWCO]	Order Numbers Sartocor®
Cellulose triacetate	5 kD	3021452907E--SG
	20 kD	3021454907E--SG
Polyethersulfone (PESU)	1 kD	3021460907E--SG
	5 kD	3021462907E--SG
	8 kD	3021463407E--SG
	10 kD	3021463907E--SG
	Albumin	302146AL07K--SG
	Albumin (New)	302146AL07K--SW
	30 kD	3021465907E--SG
	50 kD	3021465007E--SG
	100 kD	3021466807E--SG
Hydrosart®	2 kD	3021441906E--SG
	5 kD	3021442906E--SG
	10 kD	3021443906E--SG
	30 kD	3021445906E--SG
	100 kD	3021446806E--SG

Microsart Cassettes

Membrane Material	Pore Size [µm]	Order Numbers Sartocor®
Polyethersulfone (PESU)	0.1 µm	3021545806W--SG
Polypropylene	0.2 µm	3021750706W--SG
Hydrosart®	0.2 µm	3021860706W--SG
	0.45 µm	3021860606W--SG
Hydrosart®	0.2 µm	30218607040--SG
Open Channel	0.45 µm	30218606040--SG

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

Specifications subject to change without notice.
Printed in Germany on paper that has been bleached
without any use of chlorine.
W/sart-000 - G
Publication No.: SPC2048-e06021
Order No.: 85030-530-80