

Sartoflow[®] SP

The Unique TFF System
That Enables Efficient
Continuous Diafiltration
in a Single Pass

Features

The Innovation for Continuous Diafiltration

Rapidly establish process-specific parameters for truly continuous diafiltration.

Versatile System for Process Control

Designed alongside the Sartoco[®] SP cassette to match conventional diafiltration performance in a single pass.

Intuitive Control Software

Full, simple parameter control and automation enable processes controlled by constant TMP or feed flow rate.



Product Information

Sartoflow[®] SP is a benchtop crossflow system which, in combination with the Sartoco[®] SP cassette enables highly efficient diafiltration of biomolecular solutions in a continuous, single pass (SP) process. The Sartoflow[®] SP allows the complete control of flow, pressure and conductivity for feed, buffer, and retentate lines. Thus, it enables rapid process development, optimization and consistent ongoing performance of continuous diafiltration processes with the Sartoco[®] SP cassette. Thus, process steps such as buffer exchange between chromatography steps can be done continuously in a single pass.

Description

The Sartoflow® SP benchtop crossflow system is suitable for the development and routine running of continuous diafiltration processes for antibody, vaccine and other biomolecule solutions. This single pass process can be run with full control over flow, pressure and conductivity in the feed, buffer and retentate lines. Thus, the entire diafiltration process can be performed automatically with preset process parameters such as diafiltration-factor, or transmembrane pressure (TMP).

The Sartoflow® SP is optimized to be used with the Sartococon® SP crossflow cassettes. Sartococon® SP cassettes feature a unique three chamber design to achieve diafiltration performance comparable to a conventional TFF set-up but in a single pass. The Sartococon® SP cassette can be used for diafiltration in biopharmaceutical production processes. The Sartoflow® SP system is ideally suited to establish the conditions of such processes and optimize the process parameters in the process development phase and to control those critical parameters in routine use.

The unique design of the Sartoflow® SP enables an easy and straight-forward setup and control of the diafiltration process. The machine is equipped with a flow path including all necessary tubes and connectors to run the Sartococon® SP crossflow cassette. The assembly has a low hold-up volume to ensure maximum recovery.

Control Software

The Sartoflow® SP features a specially designed software that allows the accurate and precise control of all process parameters, which can be set even on the fly during process development. All set points, signal read-outs and data curves are displayed on the 17-inch touch screen. All process data, control functions and alarms are logged and can be easily viewed conveniently and analyzed in the software or exported in spreadsheet format for further analysis and storage.

Process Sequences

The Sartoflow® SP software includes predefined process sequences for venting, flushing or draining the cassette or to run at constant TMP or constant flow.

Service

Reliable and smooth operation of equipment is ensured through proper installation, configuration and regular maintenance by our Sartorius Service Experts.

Technical Data

Specifications

Pump output	Buffer: 194 ml/min @ 2 bar (29 psi), Feed: 57 ml/min @ 2 bar
Filter area (Sartococon® SP)	0.2 m ²
Minimum holdup volume	<20 ml (combined volume of feed and retentate path)
Max. inlet pressure	3 bar (43.5 psi)
Dimensions (H x L x W)	873 mm x 567 mm x 460 mm
Weight	54 kg (119 lbs.)
Electrical requirements	230 VAC 50 Hz 3 Amp; 120 VAC 60 Hz 4 Amp
IP-Standard	33
Display diameter	17 inch

Order Codes of Related Products

Sartoflow® SP crossflow system	SFSP-M-SYS
Sartoflow® SP flow path	SFSP-M-TUSET
Sartococon® Slice SC hydraulic filter holder	3D540SQ01-01
Sartococon® SP (PESU, 30 kD, 0.2 m ² , AseptiQuik®* S)	3Q514659M1465902
Sartococon® SP (PESU, 30 kD, 0.2 m ² , TriClamp)	3T514659M1465902
Sartococon® SP (Hydrosart®, 30 kD, 0.2 m ² , AseptiQuik® S)	3Q514459M1465902
Sartococon® SP (Hydrosart®, 30 kD, 0.2 m ² , TriClamp)	3T514459M1465902

* AseptiQuik® is a registered trademark of the Colder Products Company.




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