



sartorius stedim
biotech

SARTOFLOW[®] Systems

From 1 L up to 100 L Batch Size



One Concept

Multiple Options



	SARTOFLOW [®] Smart	Sartojet + MF UF set	SARTOFLOW [®] Study	SARTOFLOW [®] Advanced	SARTOFLOW [®] Alpha plus SU
Filter surface area	50 cm ² - 0.14 m ²	0.1 - 0.5 m ²	0.1 - 2.1 m ²	0.1 - 2.1 m ²	0.1 - 0.3 m ²
Automation	Manual	Manual	Manual	Semi-automatic	Semi-automatic
Application area	PD, R&D, cGMP	R&D, GLP	R&D, GLP	R&D, cGMP production	R&D, cGMP production
Min. working volume*	<20 mL	100 mL + tubing	200 mL or 400 ml (PP tank)	200 mL	~ 400 mL
Cleaning sterilisation	CIP	CIP	CIP	CIP	Pre-flushed & Gamma sterilized loop
Pump	4-piston Diaphragm 1 – 100 L/h @ 3 bar	4-piston Diaphragm 700 L/h @ 4 bar	4-piston Diaphragm 700 L/h @ 4 bar	4-piston Diaphragm 700 L/h @ 4 bar	Peristaltic 300 L/h @ 3bar
Parameters automatically regulated by the system**	P _{in} , ΔP (Optional: level control)	None	P _{in} , ΔP (Optional: Retentate flow, level control)	P _{in} , P _{out} , ΔP, TMP, level control (Optional: Retentate flow)	P _{in} , P _{out} , P _{per} , ΔP, TMP , level control (Optional: Retentate flow)
Delivery time	3 - 4 weeks	2 weeks	4 weeks	4 weeks***	10 weeks

* with 1 Sartoco[®] Slice cassette
** P_{in}: Inlet pressure | P_{out}: Retentate pressure | P_{per}: Permeate pressure | ΔP: Differential pressure | TMP: Trans-Membrane pressure
*** 5 weeks for a qualified (Level 3) SARTOFLOW[®] Advanced System

Options					
DCU-4 with touch screen	•	-	•	•	•
Sartocon [®] Slice filter holder (standard)	Sartocon [®] Slice 200	•	•	•	-
Holder for Sartocon [®] Slice 50	(•)	-	-	-	-
Sartocon [®] Slice single-use filter holder (manual or hydraulic)	-	-	-	-	(•)
Sartocon [®] filter holder for up to 3 Sartocon [®] ECO cassettes (2.1 m ²)	-	-	(•)	(•)	-
Pressure indicator feed and retentate	•	•	•	•	•
Pressure sensor permeate	•	(•)	•	•	•
Load cell	•	-	•	•	•
Flow-meter retentate	-	-	(•)	(•)	•
Flow-meter permeate	Balance	-	•	•	•
Automatic valve retentate	-	-	-	•	•
Automatic valve permeate	-	-	-	-	•
Conductivity probe retentate	(Vessel)	-	-	(•)	-
Conductivity probe permeate	-	-	-	(•)	-
pH probe retentate	(Vessel)	-	-	- (ETO)	-
pH probe permeate	-	-	-	- (ETO)	-
UV probe permeate	-	-	-	-	-
Temperature probe	(Vessel)	-	(•)	•	•
Pump head heat exchanger	-	-	-	-	-
Dry run protection	-	-	-	-	-
1 st peristaltic pump (filling of the tank and or diafiltration)	(•)	-	(•)	•	•
2 nd peristaltic pump (filling of the tank and or diafiltration)	-	-	(•)	(•)	•
1 L Vessel	•	-	-	-	-
10 L polypropylene vessel	-	-	•	-	-
10 L stainless steel tank	-	-	(•)	(•)	-
10 L stainless steel tank with a sight glass	-	-	(•)	(•)	-
Double-jacket tank, 10 L, stainless steel, with a sight glass	-	-	(•)	(•)	-
Bag holder for single-use crossflow bags	(•)	-	(•)	(•)	•
Standard & cGMP documentation (Level 0 & 1)	Level 0	Level 0	Level 0	•	•
Documentation package – Basic Qualification Test (Level 2)	(•)	-	-	(•)	(•)
BQT Execution package in FAT (Level 3)	(•)	-	-	(•)	(•)
BQT Execution package in SAT (Level 4) contact service	(•)	-	-	(•)	(•)
SCADA MFCS win 3.0 software (data acquisition upgradeable with options)	(•)	-	(•)	(•)	(•)
Recipe control (S88) software module (optional for MFCS win 3.0)	(•)	-	(•)	(•)	(•)
21 CFR Part 11 software module (optional for MFCS win 3.0)	(•)	-	(•)	(•)	(•)

• Standard (•) Optional - (ETO) Not available or only customized solution

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

Phone +49.551.308.0
Fax +49.551.308.3289



www.sartorius.com/crossflow-systems