

# Sartocon<sup>®</sup> 2Plus Stainless Steel Holder

Crossflow holder for Sartocon<sup>®</sup> cassettes



## Description

### Sartocon 2Plus Holder

The Sartocon 2Plus stainless steel holder is optimized for the use with up to ten Sartocon production scale Crossflow cassettes (max. 7 m<sup>2</sup>). It is designed for applications from 30 l to 1000 l volume.

#### Target use:

- process development
- preclinical trials
- clinical trials
- pilot lots

Sartocon cassettes with a filter area of up to 0.7 m<sup>2</sup> each, are available with Polyethersulfone, Hydrosart, Polypropylene and Cellulose Triacetate membrane types.

The Sartocon 2Plus system covers the whole range of pharmaceutical and biotechnological crossflow applications like concentration and diafiltration of proteins, vaccines, viruses, antibodies, oligo nucleotides, endotoxin removal etc. The system is also suitable for cell harvesting and clarification processes. The family of Sartorius Crossflow holders feature the latest advances in crossflow design:

- vertical orientation of cassettes
- self draining systems
- autoclavable and inline steamable
- no welds
- minimized hold up volume

The Sartocon 2Plus holding device is part of a modular micro- and ultrafiltration system and fits up to ten Sartocon filter cassettes. It is designed for process development and pilot scale production in pharmaceutical and biotechnology applications. Easy handling design and high quality materials make this holder the perfect tool.

The Sartocon cassettes are placed between filter and clamping plate without a need for additional gaskets. It's not even necessary to remove the clamping plate for installation of the cassettes. Just place the cassettes on the guide rods and close the holder with a torque wrench.

The vertical positioning of the cassettes allows complete draining of retentate and permeate channels by gravity during harvesting and steaming procedures.

Thermal sterilisation in an autoclave or steaming in place even with cassettes installed is possible. A special pressure compensation tool was designed to allow thermal sterilisation of Sartocon filter cassettes in the Sartocon 2Plus device.

The Sartocon 2Plus's flow distribution plate is machined from a single piece of stainless steel. It's sanitary 1 1/2" tri-clamp connections are not welded but machined from the same plate. This eliminates potentially problems associated with welds and ensures long service life and safe and reliable connection to other equipment.

The feed and retentate connectors are located on one side of the plate. This allows easy integration into any skid design and assures a compact system with low minimum working volume.

Connectors are situated to eliminate potential air locks and to assure thorough cleaning and total product recovery.

The Sartocon 2Plus device is available in a grinded and an electro polished surface version.

Feature	Benefits
Cassettes in vertical position	self draining
Tri-clamp connectors	safe fit of accessories
No welds	no corrosion
Steamable	no cross contamination
Fits up to ten Sartocon cassettes	high flexibility for up to 1000 l working volume

## Specifications

### Materials of Construction

Filter and Clamping plate	316L (1.4404) Stainless steel
Connectors	1" – 1 1/2" sanitary Tri Clamp flange (DN25)
Nuts for tie rods	Nickel coated bronze
Other components	316L Stainless steel

# Sartorius Crossflow Holder

## Technical Data

Surface finish	Ra ≤ 0.6 µm
Maximum number of cassettes	10 Sartococon cassettes
Dimensions (L×W×H)	371×270×348 mm
Weight	approx. 50 kg

## Ordering Informations and Accessories

Sartococon 2Plus stainless steel holder, grinded	17546---002
Sartococon 2Plus microfiltration set	17546---201
Sartococon 2Plus ultrafiltration set	17546---202
Sartococon 2Plus stainless steel holder, electro polished	17546E--002
Torque wrench for Sartococon 2Plus holder	17128
Socket, 27 mm	6986135
Pressure gauge, 0-6 bar, 1-1 1/2" autoclavable	17546---003
Diaphragm valve, 1-1 1/2"	17546---005
Silicone gasket (FDA), 1-1 1/2"	17546---012
Clamp for 1-1 1/2" Tri Clamp	17033
Sartococon 2Plus manifold for permeate outlet	17546---016
Hose connector to 1-1 1/2" Tri Clamp flange	17546---018
Pressure compensation tool for steaming and autoclaving	17625

## Ultrasart Cassettes

Membrane Material	Nominal Molecular Weight Cutoff [NMWCO]	Order Numbers Sartococon®	
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	
Hydrosart®	30 kD	3021465907E--SG	
	50 kD	3021465007E--SG	
	100 kD	3021466807E--SG	
	300 kD	3021467907E--SG	
	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 Sartococon®
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® Open Channel	0.2 µm	30218607040--SG
	0.45 µm	30218606040--SG

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