Product Datasheet

SARTURIUS

Sartoflow® 10 Stainless Steel Holder

Hydraulic Filter Holder for Sartocon® Cassettes



Description

Sartoflow® 10 Holder

The Sartoflow® 10 stainless steel holder is optimized for use with up to 10 Sartocon® production scale Tangential Flow Filtration (TFF) cassettes or two Sartocubes® (max. 7 m²). It is designed for applications from 30 L to 1,000 L volume.

Target use:

- Process development
- Preclinical trials
- Clinical trials
- Pilot lots
- Production

Sartocon® cassettes with a filter area of up to 0.7 m² each, are available with Hydrosart® and Polyethersulfone membrane types.

Sartoflow® 10 holders cover the whole range of pharmaceutical and biotechnological TFF applications like concentration and diafiltration of proteins, vaccines, viruses, antibodies, oligo nucleotides, endotoxin removal etc. The holder is also suitable for cell harvesting and clarification processes. The family of Sartorius TFF holders feature the latest advances in TFF design:

- Vertical orientation of cassettes
- Self-draining systems
- In-line steamable
- No welds
- Minimized hold-up volume

The Sartoflow® 10 filter holder is part of a modular micro- and ultrafiltration system and fits up to 10 Sartocon® filter cassettes. It is designed for process development and pilot scale production in biopharmaceutical applications.

The Sartocon® cassettes are placed between the filter and clamping plate, without a need for additional gaskets. It is not necessary to remove the clamping plate for installation of the cassettes. Place the cassettes on the guide rods and close the holder with the manual driven oil hydraulic pump. The TFF holder and the hydraulic pump are optionally mounted on a stainless steel skid for easy handling.

The clamping pressure can be controlled by an integrated oil pressure gauge. This allows very accurate and reproducable clamping conditions. Defined clamping conditions are essential, especially for steaming in place applications, but it is also very valuable when cassettes have to be changed frequently. The Sartoflow® 10 holder offers high performance production scale technology for every process development and small scale production facility.

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

The Sartoflow® 10 flow distribution plate is machined from a single piece of stainless steel. Its sanitary tri-clamp connections are not welded but machined from the same plate. This eliminates potential problems associated with welds and ensures a 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 ensures a compact system with low minimum working volume.

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

Benefits
Self-draining Self-venting
Safe fit of accessories
No corrosion
No cross contamination
Up to 1,000 L working volume
Precise and reproducible clamping conditions

Technical Data

Specifications

Materials of Construction	
Filter and clamping plate	316 L (1.4435) stainless steel, grinded
Connectors	Sanitary Tri Clamp flange (DN25)
Other components	316 L stainless steel

Surface finish, grinded	Ra ≤ 0.4 µm
Closure	Lukas hydraulic ram ACM 10/150
Oil pressure gauge	0-400 bar 0-6000 psi
Pressure limit	430 bar
Maximum number of cassettes	10 Sartocon® cassettes
Dimensions (L×W×H)	680 × 420 × 508 mm
Weight	Approx. 70 kg

Accessories and Order Information

Handhydraulic set for SF 10 or SF 20 Set: Handhydraulic pump manometer, pressure hose, needle valve	1ZW0004
Pressure gauge, 0-6 bar, 1-1½"	17546003
Diaphragm valve, 1-1½"	17546005
Silicone gasket (FDA), 1–1½"	17546012
Clamp for 1–1½" Tri-clamp	SB-18-00-0194
Sartocon® manifold for permeate outlet	17546016
Hose connector to 1–1½" Tri-clamp flange	17546018
Sartocon® adapter plate (round to oval adapter)	302020A
Sartocon® single-use adapter plates	17546113-C
Sartocon® flush plate PP-DWST	302030C

Sartocon® dummy modules PP-DWST	
20 mm	302020D-C
40 mm	302040D-C
100 mm	302100D-C
Sartoflow® Wedge	U1-SCUBE-WEDGE
Sartoflow® Heatshield	1ZJO0001
Threaded spacer nominal length 100mm	17000309
Threaded spacer nominal length 65 mm	17000314

Included with Filter Holder	Product Number	Units
Sartoflow® Wedge	U1-SCUBE-WEDGE	2
Sartoflow® Heatshield	1ZJO0001	1
Threaded spacer nominal length 100mm	17000309	2
Threaded spacer nominal length 65 mm	17000314	1
Dummy module (100 mm)	302100D-C	1

Sartoflow® 10, 316 L (1.4435)

Order Number	Norm	F/R [mm]	P [mm]	Mirror-inverted
179-6DD260160E	DIN	26	16	
179-6DZ221157E	Zoll	22.1	15.7	
179-6DI297181E	ISO	29.7	18.1	
179-6DJ230230E	JIS-G	23	23	
179-6DD260160EM	DIN	26	16	×
179-6DZ221157EM	Zoll	22.1	15.7	×
179-6DI297181EM	ISO	29.7	18.1	×
179-6DJ230230EM	JIS-G	23	23	×

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