

STRASSBURGER
FILTER 



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DEEP BED FILTER MODULES &
MODULE HOUSING SF DISC

Deep bed filter modules

The filtration with filter sheets is still used in many fields of application. However, the work with the conventional sheet filters often takes a lot of time and space. Furthermore, a lot of applications require a hermetically closed filtration system. A module filter meets these demands.

Advantages

Easy handling by use of modules from filter sheets

Compact construction through stacking of modules

Closed system, therefore hygienic and drop-proof

The filter modules are available in all current SF-filter sheet types

Application examples

Beverages (wine, spirits, juice ...)

Pharmaceutical products

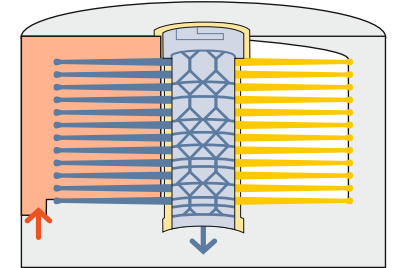
Cosmetics

Chemical products as e.g. solvents

Construction

A filter module consists of filter cells, each of them has in turn two filter sheets. These two filter sheets are separated from each other by a drainage of polypropylene. The drainage is on the clear side of both sheets, which means that the flow direction runs from outside to inside. The rim has an injection moulded border made of polypropylene, so that a separated filter cell is formed.

All cells are stacked one upon the other by means of plastic spacer rings until a certain height is reached. The filtrate runs off over the inner core. Thereafter, adapters (O-rings or flat gaskets) are fixed at the inner core in order to stabilise the cells and connect them with the filtrate pipe. The whole construction forms a module with a diameter of 12" or 16" and 16 filter cells.



Types of filter sheets

The actual filtration takes place through the filter sheets which are available in different qualities. The types of filter sheets range from rough particle filtration to clear filtration and sterile filtration up to the separation of microorganisms.

Type	Permeability l/min-m ²	Separation value µm
SS S	40	0.4
SS 1	65	0.6
SS 0	90	0.6– 0.8
SS F	110	0.7– 0.9
SK 1000	140	1.0– 3.0
SK 700	180	1.5– 3.5
SK 500	210	3.5– 6.0
SK 400	500	3.0– 8.0
SK 300	780	5.0– 12.0
SK 200	910	6.0– 15.0
SK 100	1,270	7.0– 18.0
SK 10	1,750	8.0– 20.0
SK 0	10,200	12.0– 40.0

Technical data of modules

Model size	12"	16"
Diameter	284 mm	410 mm
Filter area	1.8 m ²	4.0 m ²
No. of sheets	16	16
Total height	335 mm (double O-ring) 275 mm (flat gasket ring)	
Weight (dry)	6 kg	12 kg
Adapter	Flat gasket ring or double O-ring	
Material housing	Polypropylene	
Material gasket	Silicone (others on request)	

Operation conditions

Max. operating temperature	80°C
Max. pressure difference	2.4 bar
Sterilisation at	135°C

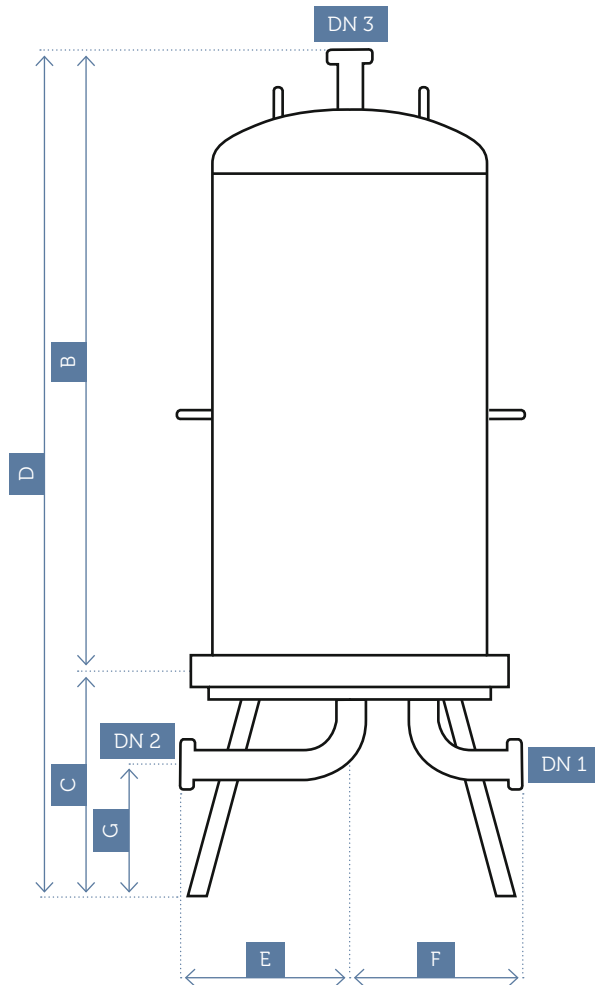


Housing of SF DISC

The housing of SF DISC is produced in two types: for the **beverage industry (SF DISC G)**, on the one hand, for **pharmaceutical and chemical applications (SF DISC P)** on the other.

The **SF DISC G** has a filter housing made of stainless steel with a central spindle and a baffle plate. The filter housing consists of a bottom with an in- and output nozzle as well as a removable cover. The closing of the cover is equipped with a quick-acting locking ring. The module connections have a flat adapter made of silicone. On request, a double O-ring is possible as well. Connections for in- and output DN 50 (milk pipe). Acceptance test: pressure test with manufacturer certificate.

In order to meet the higher requirements of aggressive media, we offer this version with segment clamp screws and pressure tank certificate. The cover of the **SF DISC P** is closed with a segment clamp screw. Connections for in- and output NW 25 – 50 (Tri-Clamp). TÜV approval is effected according to DGRL.



Module housing SF DISC

Type	SF DISC 12"			SF DISC 16"		
	12-1	12-2	12-3	16-1	16-2	16-3
A: diameter in mm	325	325	325	450	450	450
B: height cover in mm	450	730	1000	500	780	1050
C: height feet in mm	220	300	300	570	570	570
D: total height in mm	670	1030	1300	1070	1350	1620
E in mm	200	200	200	200	200	200
F in mm	200	200	200	300	300	300
G in mm	200	200	200	300	300	300
DN 1	NW 25	NW 32	NW 32	NW 50	NW 50	NW 50
DN 2	NW 25	NW 32	NW 32	NW 50	NW 50	NW 50
DN 3	NW 25	NW 25	NW 25	NW 25	NW 25	NW 25

Strassburger Filter GmbH & Co. KG
 Filter – Anlagen – Apparatebau
 Osthofener Landstraße 14
 67593 Westhofen
 Germany
 Phone +49 62 44 / 90 800-0
 Fax +49 62 44 / 90 800-8
 info@strassburger-filter.de
 www.strassburger-filter.de

