

Enclosed filtration system

With stainless steel chassis and stainless steel filter plates and frames. The sheet filter **HERMETIX 400 S** is an enclosed filtration system that caters for the special requirements of the biotechnological and pharmaceutical industry. The design is based on the high hygiene and purity requirements. It can be used for a wide range of applications from fractionation of blood plasma, initial cell harvest to clarification of vaccines, enzymes, antibiotics or in the food industry.



HERMETIX 400 S

HERMETIX is a multiple sheet filter (optional with filter cloth or paper) in enclosed design for the filtration with depth filter sheets. The 100 % hermetically sealing of the filter package without any leakages is realized by filter sheets inside and a circumferential gasket (O-ring) on each of the filter plates. This eliminates any product contact with the surrounding environment. Unique with the possibility of CIP cleaning and SIP sterilisation.

Technical data

Operation pressure	max. 6 bar
Temperature	at -10°C – +95°C
CIP cleaning without filter sheet	max. 3 bar at 95°C
SIP sanitisation	max. 2 bar at 131°C

Materials

Product wetted parts	Stainless steel AISI 316 L
Roughness	< 0.6 µm, electropolished
Other parts	Stainless steel AISI 304
Gaskets/O-rings	Silicone, EPDM, Viton, FEP-coated (with FDA certification)

Other materials on request

Fittings

In- and outlet	TC – DN 25/1"
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Filter plates / frames

Material	Stainless steel AISI 316 L	
Filter plate	Filtration area: 0.22 m ²	
Filter frame 15 mm	Volume:	1.65 l total/ 1.5 l eff.
Filter frame 20 mm	Volume:	2.2 l total/ 2 l eff.
Filter frame 25 mm	Volume:	2.75 l total/ 2.5 l eff.
Filter frame 30 mm	Volume:	3.3 l total/ 3 l eff.
Filter frame 40 mm	Volume:	4.4 l total/ 4.0 l eff.

Hydraulic closing of plate package

Cylinder with mechanical locking
Pneumatical or electrical operation

Optional

Signal exchange with PCS
Design in conformity with ATEX
movable

PLATE AND FRAME SHEET FILTER HERMETIX 400 S



Filter plate with wave drainage profile and O-ring

Special features

Hermetically sealed with filter sheets inside and circumferential gasket (O-ring)

CIP-/SIP-compatible

Complete draining and venting due to unique design of the filter plates

Filter frames without any dead spaces

Flexibility by different widths of filter frames

Easy to clean thanks to hygienic GMP design of chassis (angled surfaces)

Highest surface quality and processing

Filter plates with hygienic wave drainage profile

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Sheet filter HERMETIX 400 S

Cake frame mm	Filter area m ²	Volume eff. l	Filter plate / frame Pieces	Filter sheets Pieces	Weight kg	Dimensions mm	Stroke mm
Type HERMETIX 400 S/30						2070 x 670 x 1300	400
10	3.3	15.0	15/14	30	845		
15	2.9	19.0	13/12	26	842		
20	2.4	21.0	11/10	22	840		
25	2.2	24.0	10/9	20	838		
30	2.0	25.5	9/8	18	836		
40	1.8	30.0	8/7	16	834		
Type HERMETIX 400 S/60						2770 x 670 x 1300	600
10	7.0	32.0	32/31	64	1070		
15	5.9	40.0	27/26	54	1068		
20	5.3	47.0	24/23	48	1066		
25	4.6	51.5	21/20	42	1064		
30	4.2	55.5	19/18	38	1062		
40	3.3	58.0	15/14	30	1060		
Type HERMETIX 400 S/100						3470 x 670 x 1300	800
10	11.9	54.0	54/53	108	1320		
15	10.1	68.5	46/45	92	1318		
20	8.8	79.0	40/39	80	1316		
25	7.7	86.5	35/34	70	1314		
30	7.0	94.5	32/31	64	1312		
40	5.7	102.0	26/25	52	1310		

Here mentioned data and information are indicative and may vary in offer and order case.