



PLATE AND FRAME FILTER HERMETIX H

HERMETIX H CLEAN FILTRATION, RELIABLE RESULT

The plate and frame filter HERMETIX H is an open filtration system that we designed to meet the special requirements of the chemicals industry. The design and choice of materials were chosen specially for the high requirements in your sector. The HERMETIX H is available in an open and enclosed design – tailored to your requirements and perfect for your applications.

Clear advantages

High temperature resistance

Suitable even for aggressive media

Really high sealing function

Reliable separation of solids and particles

Additional reliability thanks to pressure make-up

Meets the highest industrial safety standards

Application-specific filter plates (from stainless steel to conductive plastic)



HERMETIX H with filter plates and frames made from conductive PP and liner connections on the fixed cover

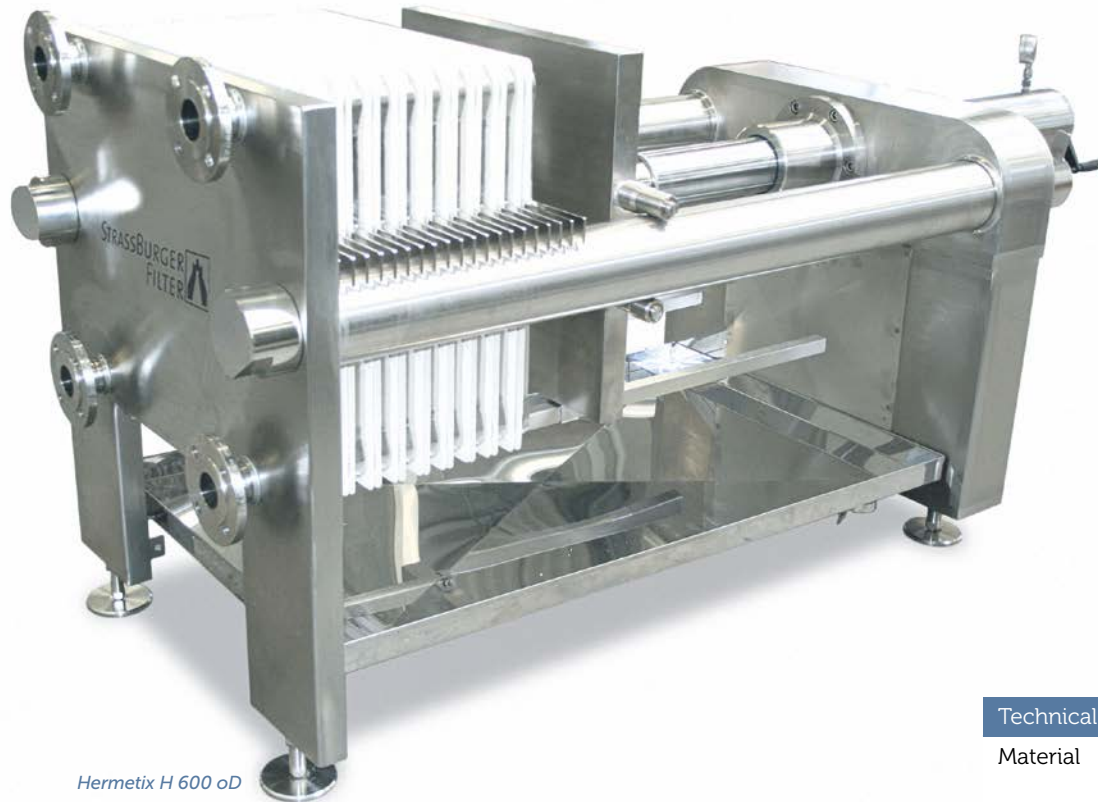
Specially developed for:

Chemical applications such as the filtration of silicone oil and siloxane and oleochemistry

Aggressive media/high temperatures

Ex-zone/volatile substances

HERMETIX H OPEN PLATE AND FRAME FILTER



Hermetix H 600 oD

The filter chassis consists of a front fixed cover and two support bars that are connected with the crossbar. The HERMETIX filter works as a pressure filter with vertically arranged filter plates and frames. Filter media are arranged between the individual filter plates. These filter media simultaneously have a sealing function when under pressure towards the outside. The plate pack is pressed and sealed via by the movable cover. The pressure is applied by a double-acting cylinder with a mechanical interlock. As a rule, the drive and control unit are pneumatic (Ex-zone) and integrated into the crossbar. Pressure make-up ensures additional reliability during filtration. There are supply and drain connections on the fixed cover.

The filter plates and frames are sealed on the plate eyelets without gaskets through the filter media. The required filter area can be adjusted flexibly through the size and number of filter plates. Depending on the application area and requirements, the filter plates are available in AISI 316 L stainless steel or in various plastics, including conductive plastic, for example.

Support bars help to position the filter media correctly between the plates and frames.

Technical data

Material	Filter chassis, parts in contact with product	AISI 316 L
	Filter plates and frames	AISI 316 L oder PP
Operating pressure	max. 6 bar	
Operating temperature	max. +120°C for stainless steel filter plates and frames	
Pressure application	Pneumatic	

HERMETIX H ENCLOSED PLATE AND FRAME FILTER WITH HOOD



HERMETIX H with Halar-coated hood

For special applications, it might be necessary to work with an enclosed filtration system. This is the case for volatile substances, odorants and hazardous substances. The fitting of the filter with a hood is particularly beneficial with regard to work safety and ensuring that workplace limit values are observed. The hood, which is pushed over the plate pack and hermetically seals the filter from the environment via inflatable seals, can be aerated and de-aerated during filtration; in addition, condensate is collected.

Example applications

Chemical applications such as the filtration of silicone oil and siloxane or oleochemistry

For aggressive media/high temperatures

In Ex-zones/for volatile substances

HERMETIX H FILTER ELEMENTS TO SUIT ALL NEEDS

Multi-bed filters offer top flexibility. Thanks to various formats for the filter plates and frames, the filter area and volumes can be perfectly configured for each application.

Advantages

Sealing within the filter plates works without gaskets through the filter aid (filter bed)

Optionally available with heated filter frames

Optionally available with hermetically sealed enclosure (hood)

Conformity assessment for ATEX and/or the Pressure Equipment Directive possible

Filter elements

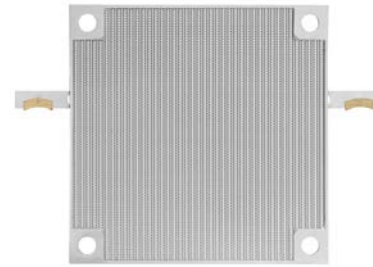
Formats of plates and frames
400 x 400 mm, 600 x 600 mm, or 800 x 800 mm

Optimum flow distribution thanks to 4-eye principle

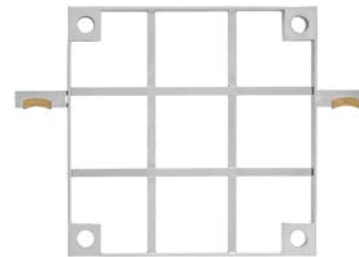
Sealing takes place via the filter bed, so without gaskets

Made from AISI 316 L stainless steel or plastic such as PP or conductive PP

Special materials on request



Filter plate SF 600 oD with support bridge drainage and brass sliding blocks



SF 600 oD frame, 40 mm frame width



SF 400 oD heated frame with individual actions for steam and condensate

Heated frames

For products that can be filtered only when hot or whose temperature needs to be kept at a certain level, the filter frames can be fitted with a heater. The connections for steam, condensate, and hot water are routed individually via a separate channel on the filter frame.

Technical data

Type	HERMETIX H 400			Hermetix H 400 oD				HERMETIX H 600			HERMETIX H 600 oD							
Chassis size	30	50	100	14	30	60	100	30	50	100	60	80	100	120	150	180	200	250
Max. no. of filter plates (13 mm)	31	51	101	15	31	61	101	31	51	101	61	81	101	121	151	181	201	251
Max. no. of filter beds	30	50	100	14	30	60	100	30	50	100	60	80	100	120	150	180	200	250
Max. filter area in m ²	3.9	6.5	13	1.8	3.9	7.8	13	9.3	15.5	31	18.6	24.8	31	37.2	46.5	55.8	62	77.5
Max. no. of filter frames (13 mm)/filter frames (40 mm)	9/8	14/13	28/27	4/3	9/8	17/16	28/27	9/8	14/13	29/28	17/16	22/21	29/28	34/33	43/42	51/50	57/56	71/70
Max. filter area in m ²	2.3	3.6	7.3	1	2.3	4.4	7.3	5.6	8.7	18	10.5	13.6	18	21	26.6	31.6	35.4	44
Max. sludge volume in dm ³	50	76	151	22	49	92	151	117	180	371	218	282	371	434	548	650	726	903
Dimensions																		
Total L in mm	1500	2300	4650	1720	1950	2690	3610	2950	3200	4850	3090	3450	4060	4470	5210	5750	6850	7310
Max. W in mm	780	780	780	550	550	550	550	1150	1150	1150	890	890	890	890	890	890	890	890
Max. H in mm	1500	1500	1500	1265	1265	1265	1265	1950	1950	1950	1300	1300	1300	1300	1300	1300	1300	1300
Weight of filter chassis in kg	600	700	815	430	475	545	645	1300	1600	2200	1420	1470	1530	1610	1700	1760	1830	1950

Weight of filter plates (13 mm): 5.5 kg

Weight of filter frames (40 mm): 8.5 kg



Our services

Training and start-up

Regular servicing and maintenance

Fast repair and procurement of spare parts

Short-term leasing of filtration systems

Engineering and design of special assemblies

Production of assemblies and mounting at our site in Westhofen (Rheinessen)

Factory acceptance (FAT) of the plant at the manufacturer's site at our own production facilities

On-site installation, including in existing production plants

Contact us!

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