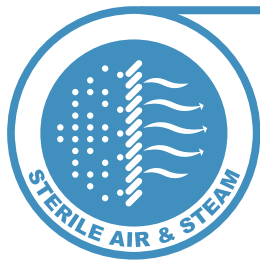




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STERILE AIR & STEAM

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GUIDES

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Icon Guide



Material(s)
For filter elements this is describing the filter media.



Certificate(s)
FDA or PED? You find any certificate here.



Flow
Recommended max. flow unless otherwise described.



Surface Roughness
The roughness of the filter housing surface. Described in μm .



Dimensions
For filter elements this describes the length.



Filtration Rate
The micron rating of the filter element.



Inlet/Outlet Connection
Refer to the table if the filterhousing has various connection sizes.



Diameter
The cartridge diameter of filter elements.



Effectivity
Describes the retention of particles equal to the micron rating.



End Cap
See guides for overview of end caps.



Pressure
Recommended max. pressure unless otherwise described.



Differential Pressure
Recommended max. diff. pressure unless otherwise described.



O-ring Material
Describes the standard o-ring. We can supply different materials.



Temperature
Recommended max. temperature unless otherwise described.



Dew Point
Describes the achievable dew points.



Ultrafilter Scandinavia offers a wide selection of filtration products for compressed air, liquids and gas. We have stock in Denmark and from here we distribute all of our products to Scandinavia and the Baltic countries.

Ultrafilter Scandinavia is a part of the Ultrafilter Group. Production is in Germany and we have several subsidiaries in Europe and the United States.

In all countries, you can buy our products on local websites. Information about our products as well as brochures and manuals can be found on our website. We can adapt all of our filtration products to your needs, and we offer visits from our consultants in order to find the right solution for you. We also offer on going service on our products once they are installed.

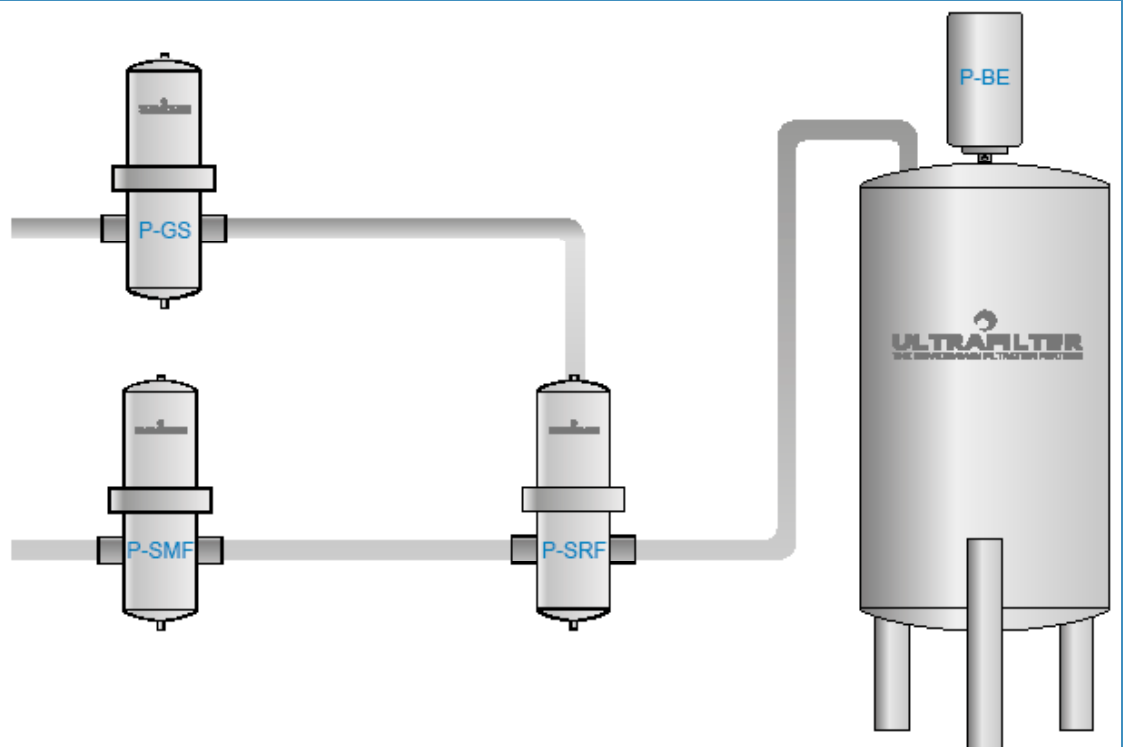
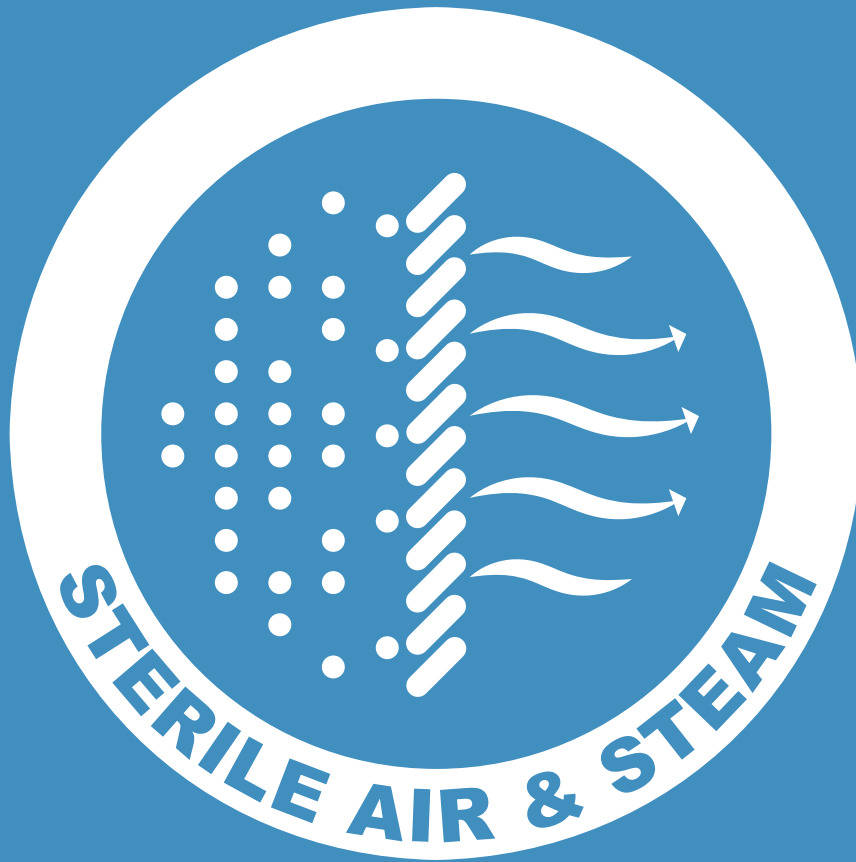
We have many different kinds of compressed air filters that are compatible with compressed air systems of all brands. We also offer compressed air dryers, adsorption and membrane dryers in addition to auto drain compressors, compressed air tanks and oil-water separators. Additionally, we have a sterile compressed air filter for food and beverage applications.

We offer all kinds of filters for liquids such as bag filters, absolute filters and membrane filters, with industrial applications, such as coolant. We have a great deal of experience with filter solutions for the food and beverage industry, and our products are approved by EC 1935/2004 as well as FDA. We also have filters for drinking water.

We have one of the best generators for manufacturing nitrogen and oxygen and for filtering all kinds of gas like methane and bio gas.

Ultrafilter design and manufacture components and systems for the purification of compressed air, technical gases and liquids.







Our sterile filters are all FDA CFR article 21 / EC 1935/2004 validated and approved. "Sterile" means "free of microorganisms that are capable of reproducing itself".

A more scientific definition of sterile is that a filter is defined as "sterilizing filter", when exposed to a concentration of 10⁷ microorganisms (*Brevundimonas diminuta*) per. cm² filter area and the filtrate is 100% sterile and therefore not containing microorganisms, such as bacteria.

Coli and streptococci typically have a size between 0,3 microns and 9 microns, resulting in that the sterile filter has a Filtration of 0,2 microns or better.

In sterile filtration of compressed air, there are differentiated between two types of filter: the depth filter (P-SRF) and membrane filter (PF-PT and PF-PP).

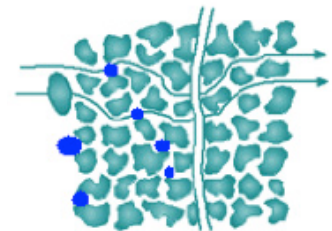
For the food industry, the recommended standard is a depth filter, and for use in the pharmaceutical, fine chemical or biotech industries, we recommend membrane filters. Both filters are optimally placed close to the point of use.

It is recommended that installed a central desiccant dryer as well as a coalescing micro filter and activated carbon filter, to secure dry and oil-free compressed air at the sterile filters, thereby extending the life of the filter.



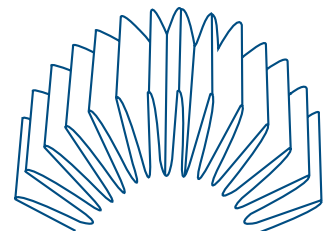
Depth Filter

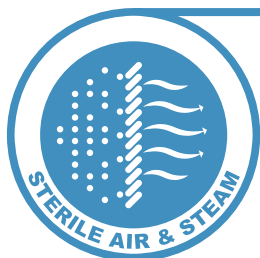
A depth filter typically consists of multiple layers of metallic, polymeric or inorganic material - typically used a variety of silicon, called borosilicate. This type of filter is distinguished by a high filtration capacity and high degree of stability during use and sterilization. This type of filter is about 99.9999% effective compared to a give micron size.



Membrane Filter

A membrane filter is made of polymeric plastic film - typically polypropylene, these filters have less particle retention capacity, which is solved by pre-filtration. The membranes have a 100% retention rate and is available in several filtration degrees.







PROCESS AIR PREFILTER ELEMENT

P-FF / P-MF / P-SMF / P-AK


Technical Data

 Binderfree nanofibres, Pleated cerex

 0,01 µm

 99,999% - 99,99999%

 -20°C to 80°C

 Max. 5 bar @ 20°C

 Stainless steel SS304 end caps

 Perbunan Gasket (others available)

All our standard coalescing, particulate and activated carbon filters are available as pre-filters for our stainless steel filter housings for critical installations.

Thanks to the unique combination of binder free, non-woven nanofiber filter media and our special pleating techniques, we can achieve a reduction of energy costs up to 70%, at a higher than regular efficiency.

The new nanofiber material from ultrafilter is oleo phobic, which means that the oil and water particles are actively rejected in order to keep a low differential pressure drop, and consequently the operating costs are reduced to a minimum compared with a conventional filter element.

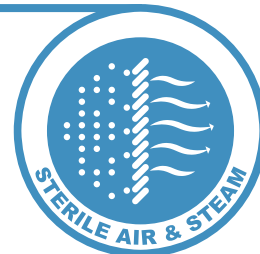
All metal components on the prefilter elements are made of stainless steel.









Type	Filtration rate	Effectivity	Residual oil content	Max. differential pressure
P-FF	0,01 µm	99,999%	0,1 mg/m ³	5 bar at 20°C
P-MF	0,01 µm	99,99998%	0,03 mg/m ³	5 bar at 20°C
P-SMF	0,01 µm	99,99999%	<0,01 mg/m ³	5 bar at 20°C
P-AK	Activated Carbon	N/A	0,003 mg/m ³	2 bar at 20°C

STERILE DEPTH FILTER ELEMENT

P-SRF



Technical Data

-  Borosilicate
-  0,2 µm
-  99,99998%
-  -20°C to 200°C
-  Stainless steel SS304 end caps
-  Silicone (others available)

Bacterial retention: LRV > 7/cm² for
T1 Coliphagen

Regeneration: 100 times

The P-SRF is a wounded depth filter with inner and outer guard end caps made of stainless steel. Consisting of a three-dimensional borosilicate depth media, the P-SRF achieves a void volume of 95%, ensuring a high containment capacity at high flow rates and low differential pressure. A retention rate of >99.99998% related to 0.2 µm is achieved during operation.

All components meet the FDA requirements for the contact with food in accordance with the CFR requirements (code of federal regulations) tilte 21.

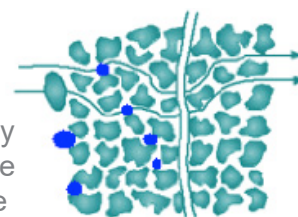
Corresponds to cGMP requirements (current Good Manufacture Practice) and is manufactured according to DIN EN ISO 9001.

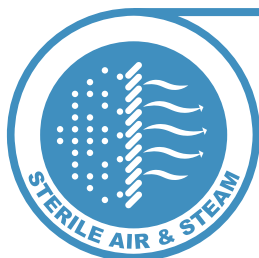
P-SRF has passed the toxicological test according to USP XX Class VU for plastics.

This element is
STERILIZABLE
See page 44

Depth Filter

A depth filter typically consists of multiple layers of metallic, polymeric or inorganic material - typically used a variety of silicon, called borosilicate. This type of filter is distinguished by a high filtration capacity and high degree of stability during use and sterilization. This type of filter is about 99.9999% effective compared to a give micron size.





PROCESS FILTER HOUSING

P-EG



Technical Data

- SS304 or SS316L
- 200°C (250°C as option)
- EPDM seal (others on request)
- 0006-0192: 16 bar
0288: 12 bar
0432-1920: 10 bar
25 bar on request
- PED

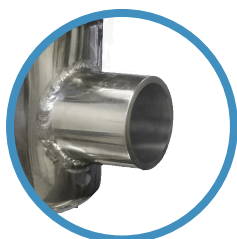
P-EG filter housings in stainless steel, designed for purification of compressed air and other technical gases.

With this filter you can achieve low differential pressure at high flow rates. P-EG Filter housings are available in 18 different sizes from 60 to 19200 Nm³/hour.

The P-EG is our first-choice housing for most process air applications. Such as pre-filtration, sterile filtration and steam filtration.



BSP



ASA (weld)



DIN / ANSI



NPT

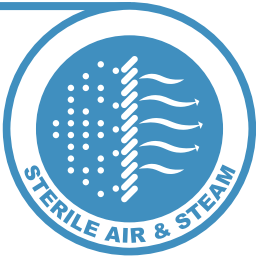
Model	Flow m ³ /h	Connection in/out			Filter Element	
		BSP	ASA	DIN	Size	Qty
P-EG 0006	60	R ¼"	DN10	DN10	03/10	1
P-EG 0009	90	R ⅜"	DN10	DN10	04/10	1
P-EG 0012	120	R ½"	DN15	DN15	04/20	1
P-EG 0018	180	R ¾"	DN20	DN20	05/20	1
P-EG 0027	270	R 1"	DN25	DN25	05/25	1
P-EG 0036	360	R 1¼"	DN32	DN32	07/25	1
P-EG 0048	480	R 1½"	DN40	DN40	07/30	1
P-EG 0072	720	R 2"	DN50	DN50	10/30	1
P-EG 0108	1080	R 2"	DN50	DN50	15/30	1
P-EG 0144	1440	R 2½"	DN65	DN65	20/30	1
P-EG 0192	1920	R 3"	DN80	DN80	30/30	1
P-EG 0288	2880	R 3"	DN80	DN80	30/50	1
P-EG 0432	4320	N/A	N/A	DN100	20/30	3
P-EG 0576	5760	N/A	N/A	DN100	30/30	3
P-EG 0768	7680	N/A	N/A	DN150	30/30	4
P-EG 1152	11520	N/A	N/A	DN150	30/30	6
P-EG 1536	15360	N/A	N/A	DN200	30/30	8
P-EG 1920	19200	N/A	N/A	DN200	30/30	10

Correction factor:








Operating pressure	bar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Correction factor	K1	0,25	0,36	0,5	0,6	0,75	0,9	1	1,1	1,2	1,4	1,5	1,6	1,75	1,9	2	2,1

STERILE MEMBRANE FILTER

Ultra-Mem PF-PT / PF-PP



Technical Data

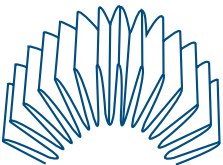
-  ePTFE and Polypropylene
-  0,02 µm, 0,1 µm, 0,2 µm or 0,45 µm
-  99,999999%
-  -20°C to 80°C
-  Max. 6 bar @ 20°C
-  Code 7 (others available)
-  Silicone (others available)

For critical applications in sterile filtration, use of a hydrophobic PTFE membrane is recommended, especially in applications such as pharmaceutical industry and biotechnology. PTFE membranes are also well suited for sterile steam applications.

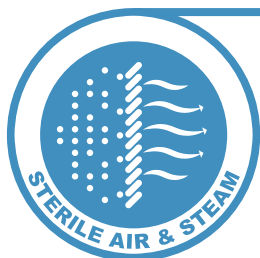
For certain chemicals and applications, polypropylene membranes are available.

Membrane Filter

A membrane filter is made of polymeric plastic film - typically polypropylene, these filters have less particle retention capacity, which is solved by pre-filtration. The membranes have a 99,999999% retention rate and is available in several filtration degrees.










Model	PF-PT	PF-PT PLUS	PF-PP
Filtrationrates	0,02 to 0,45 µm	0,2 µm	0,1 to 0,2 µm
Material	ePTFE	ePTFE	Polypropylene
Applications			
Sterile process gases	•	•	•
Fine chemicals and solvents			•
Photoresists and developers			•
Biotechnology	•	•	
Powder handling and tableting	•	•	•



SANITARY AIR FILTER HOUSING

PG-EG

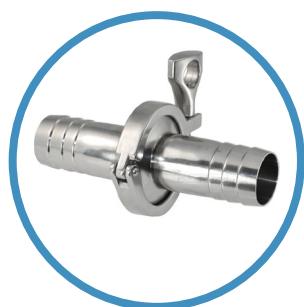
Technical Data

-  304 or 316L
-  Ra 0,8 (0,4 optional)
-  200°C
-  0006-0192: 16 bar
0432-1920: 10 bar
-  Code Y (UF) or Code 7
-  EPDM (others available)
-  PED

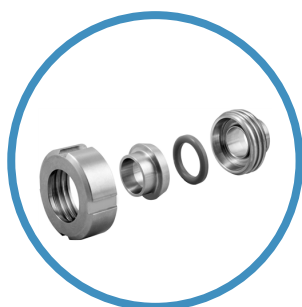
PG-EG stainless steels have been developed for the purification of compressed air and other technical gases in pharmaceutical, biotechnology and chemical industries.

PG-EG houses are "first choice" in critical applications in sterile filtration.

All PG-EG filter housings to a certain size have been etched and passivated on the inner surface to a quality of Ra 0,8. The outer surface has this quality or better for every PG-EG sanitary filter housing.



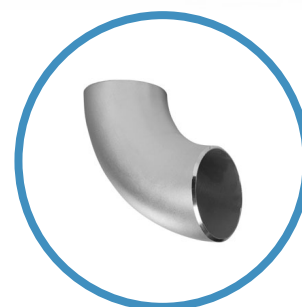
Tri-clamp ASME



Dairy Union
DIN 11851



Flange EN1092-1



Weld End

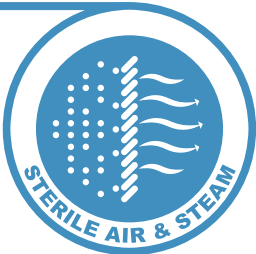
Model	Flow m³/h	Connection (clamp)	Filter Element	
			Size	Qty
PG-EG 0032	45	DN25	05/30	1
PG-EG 0072	90	DN40	10/30	1
PG-EG 0108	135	DN50	15/30	1
PG-EG 0144	180	DN65	20/30	1
PG-EG 0192	270	DN80	30/30	1
PG-EG 0432	540	DN100	20/30	3
PG-EG 0576	810	DN100	30/30	3
PG-EG 0768	1080	DN150	30/30	4
PG-EG 1152	1620	DN150	30/30	6
PG-EG 1536	2160	DN200	30/30	8
PG-EG 1920	2700	DN200	30/30	10

Correction factor:

Operating pressure	bar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Correction factor	K1	0,25	0,36	0,5	0,6	0,75	0,9	1	1,1	1,2	1,4	1,5	1,6	1,75	1,9	2	2,1

STEAM FILTER

P-GS



Technical Data

- Sintered steel SS316L
- 1 µm, 5 µm or 25 µm
- 98 (steam) / 100% (gasses)
- 20°C to 210°C
- Max. 5 bar
- Stainless steel SS304 end caps
Code Y (UF), DOE or Code 7
- EPDM (others available)

The ultrafilter P-GS filter is designed for removal of particles from gases, liquids and particularly steam.

The P-GS consists of a restorable weldless filter pipe made from sintered stainless steel. The filter is well suited for culinary steam – where contact with production machines and end product is needed.

The P-GS is suited for use in temperatures ranging from -20°C to 210°C and has a maximal differential pressure tolerance of 5 bar.

OPTIONS



Viton Seal



Fluoraz Seal

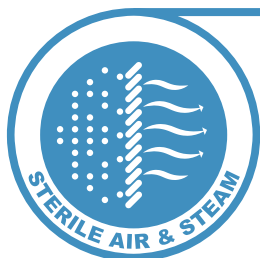


Silicone Seal



Welded End Caps


Applications	1 µm	5 µm	25 µm
Food Contact	•		
General use of steam		•	
Pre-filtration of steam			•



FILTER HOUSING FOR STEAM


P-EG

Technical Data

 SS304 or SS316L

 Ra 1,2


 200°C

 0006-0192: 16 bar

0288: 12 bar

0432-1920: 10 bar

25 bar on request

 EPDM seal (others available)

 PED



For our PG-S steam filters we use our P-EG filter housing with flange connections.

With this filter you can achieve low differential pressure at high flow rates. P-EG Filter housings are available in 12 different sizes, in either 304 or 316 stainless steel.

For particularly high quality demands, we offer our sanitary filter housing PG-EG for steam filtration.

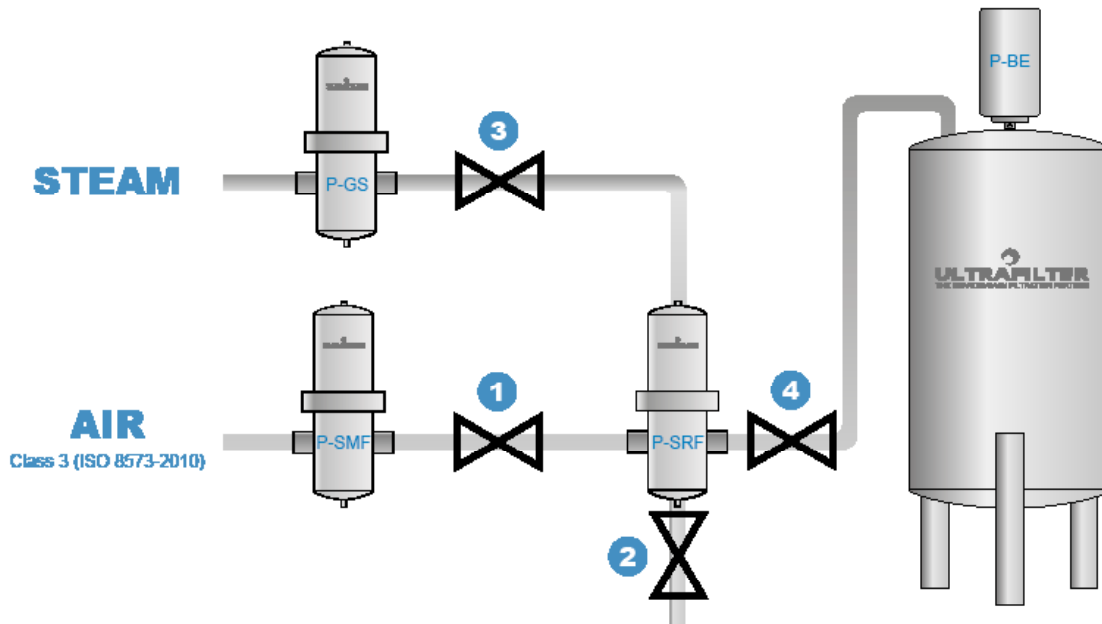
Model	Flow (kg/h)			Connection DIN	Filter Housing	Element Size
	1 µm	5 µm	25 µm			
P-GS 0006	6	19	30	DN10	P-EG 0006	03/10
P-GS 0009	8	25	40	DN10	P-EG 0009	04/10
P-GS 0012	12	37	59	DN15	P-EG 0012	04/20
P-GS 0018	18	58	93	DN20	P-EG 0018	05/20
P-GS 0027	23	75	120	DN25	P-EG 0027	05/25
P-GS 0036	28	88	141	DN32	P-EG 0036	07/25
P-GS 0048	31	100	160	DN40	P-EG 0048	07/30
P-GS 0072	42	135	216	DN50	P-EG 0072	10/30
P-GS 0108	77	245	392	DN50	P-EG 0108	15/30
P-GS 0144	103	330	528	DN65	P-EG 0144	20/30
P-GS 0192	163	520	832	DN80	P-EG 0192	30/30
P-GS 0288	250	800	1280	DN80	P-EG 0288	30/50

Flow rate at 121°C saturated steam

Correction factor:

Operating pressure	bar	1	2	4	6	10
Saturated steam temp.	°C	100	121	140	160	180
Correction factor	K1	0,5	1	2	3	5

STERILIZATION PROCEDURE

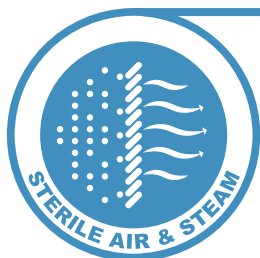


Both depth and membrane sterile filters can be sterilized in-line with steam or externally by autoclave. It is recommended to sterilize a sterile filter after every production batch or at least after 14 days.

Sterilization temperature is between 110°C - 140°C, respectively for 30 and 10 min.

1. Valve (1) and valve (4) closes.
2. Drain valve (2) opens.
3. Valve (3) opens and steam flow into the filter housing.
4. After reaching a temperature of 100 ° C, the steam begins to condense at the same time that there is only opened to the valve (2), the pressure being built up to the desired sterilization temperature.
5. After reaching the steam temperature starts the actual sterilization within the ages:
 - Saturated steam 121 ° C - 30 minutes
 - Saturated steam 131 ° C - 20 minutes
 - Saturated steam 141 ° C - 10 minutes


When sterilization rounded cast of valve (2), after which valve (3) & (1) open slowly and valve (4) closes slowly - and then start the process over again.




STERILE TANK FILTER

P-BE

Technical Data


 Borosilicate, stainless steel housing

 0,2 µm

 99,999%

 -20°C to 200°C

 Stainless steel SS304 end caps

 Silicone (others available)

Regeneration: 100 times



P-BE filter are used to ensure 100% sterility in the storage vessels of pharmaceutical products, chemicals, food or of fermenters. The filter acts as sterile breather for the content of the vessel. The P-BE is a depth filter and works both ways, and protects the surrounding area from exposure to the contents of the vessel.

The two-part housing is user-friendly designed and has a splash protection to prevent liquids coming in contact with the filter media.

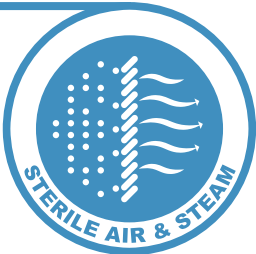
The filter element can be sterilized for continuous use up to 100 times. Regeneration is done by in-line steam or externally in autoclave.

Model	Flow (m³/h)		Connection*	Filter Element	
	Δp = 20 mbar	Δp = 40 mbar		Size	Qty
P-BE 0006	5	9	DN32	03/10	1
P-BE 0027	12	24	DN40	05/25	1
P-BE 0032	17	35	DN50	05/30	1
P-BE 0072	35	70	DN50	10/30	1
P-BE 0144	70	140	DN80	20/30	1
P-BE 0192	105	210	DN80	30/30	1
P-BE 0432	210	420	DN100	20/30	3
P-BE 0576	315	630	DN100	30/30	3
P-BE 0768	420	840	DN150	30/30	4
P-BE 1152	630	1260	DN150	30/30	6
P-BE 1536	840	1680	DN200	30/30	8
P-BE 1920	1050	2010	DN200	30/30	10

*Milk Pipe fitting acc. DIN 11851 or flange acc. DIN 2633

VENT FILTER PTFE

Ultra-Vent



Technical Data

- ePTFE and Polypropylene
- 0,1 µm or 0,2 µm
- 99,99998%
- 80°C
- Max. 6 bar @ 20°C
- ½" BSP male thread
- Silicone Gasket (others available)
- 2,5" or 5"

Our PTFE Vent filter cartridges are manufactured using a highly hydrophobic ePTFE membrane and are designed for autoclave venting and small vessel venting. The enhanced ePTFE membrane offers exceptionally high gas flow rates at low pressure differentials.

The vent filter cartridges are designed with a ½" BSP male thread for autoclave and small vessel venting applications, and the hydrophobic characteristics of the ePTFE membrane makes the Vent filter cartridge particularly suitable for rapid vacuum breaks in autoclaves.

Model	Filtration Rate	Connection	Dimensions (mm)	
			Length	Diameter
Ultra-Vent 2,5"	0,2 µm	1/2"	64	70
Ultra-Vent 5,0"	0,2 µm	1/2"	127	70



FINDING THE RIGHT SIZE DRYER



The flows mentioned in the dryer tables are based on specific operating conditions. To calculate the right size dryer you should use the correction factors below.

Refrigeration Dryers

The formular below can be used to calculate the correct capacity of both the UD 50Hz and UD 60Hz.

Flow x K1 x K2 x K3 x K4

Operating Pressure bar (g)	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Correction factor K1	0,71	0,82	0,90	0,96	1,00	1,04	1,07	1,09	1,11	1,13	1,15	1,16	1,18	1,19

Compressed Air Inlet Temperature	30	35	40	45	50	55	60	65	70
Correction factor K2	1,23	1,00	0,81	0,66	0,57	0,52	0,48	0,44	0,40

Ambient Temperature	20	25	30	35	40	45	50	Dewpoint	3	5	7	9
Correction factor K3	1,05	1,00	0,95	0,89	0,84	0,78	0,72	Correction factor K4	1,00	1,24	1,38	1,40

High Pressure Refrigeration

The formular below can be used to calculate the correct capacity of UD HP.

Flow x K1 x K2 x K3 x K4

Operating Pressure bar (g)	25	30	35	40	45	50	Compressed Air Inlet Temperature	35	45	70
Correction factor K1	0,94	0,97	0,99	1,00	1,01	1,01	Correction factor K2	1	0,77	0,46

Ambient Temperature	20	25	30	35	40	45	50	Dewpoint	3	5	7	9
Correction factor K3	1,05	1,00	0,90	0,90	0,84	0,79	0,73	Correction factor K4	1,00	1,12	1,25	1,41



Membrane Dryer

The formular below can be used to calculate the correct capacity of the UFM membrane dryer.

Flow x K1

Operating Pressure bar (g)	4	5	6	7	8	9	10	11	12
Correction factor K1	0,41	0,56	0,76	1,0	1,22	1,48	1,76	1,86	2,22

HeatLess HL

For calculating capacity on our HeatLess HL adsorption dryer, use the correction factor below.

Flow x K1

Correction factor K1		Operating Pressure (bar g)												
		4	5	6	7	8	9	10	11	12	13	14	15	16
Inlet temp. (°C)	35	0,63	0,75	0,88	1,00	1,13	1,25	1,38	1,50	1,55	1,60	1,65	1,70	1,76
	40	0,55	0,66	0,77	0,88	0,99	1,10	1,21	1,32	1,43	1,54	1,65	1,70	1,76
	45 *	0,42	0,50	0,59	0,67	0,76	0,84	0,92	1,01	1,09	1,17	1,26	1,34	1,42
	50 **	0,35	0,41	0,48	0,55	0,62	0,69	0,76	0,83	0,90	0,96	1,03	1,10	1,17

* PDP -25°C

**PDP -20°C

VarioBlo

The capacity of the VarioBlo heat regenerated adsorption dryer can be calculated with the formular below.

Flow x K1 (x K2 - For PDP -70°C)

Correction factor K1		Operating Pressure (bar g)						
		4	5	6	7	8	9	10
Inlet temp. (°C)	30	0,71	0,86	1,00	1,15	1,18	1,25	1,37
	35	0,62	0,75	0,87	1	1,12	1,25	1,37
	40	0,38	0,54	0,67	0,82	0,92	1,07	1,21
	43	-	0,33*	0,45**	0,54**	0,61***	0,72	0,80

* PDP -20°C

**PDP -25°C

***PDP -30°C

Correction factor K2		Operating Pressure (bar g)						
		4	5	6	7	8	9	10
Inlet temp. (°C)	30	-	0,90	0,90	0,80	0,80	0,80	0,80
	35	-	0,80	0,80	0,80	0,80	0,80	0,80
	40	-	-	-	-	-	0,70	0,70

WATER CONTENT IN AIR

The table below shows the water content in compressed air at different temperatures. This is useful for calculating the capacity of dryers.



Dew Point °C	g/Nm ³	ppm
-100	0,0000111	0,0138
-90	0,0000767	0,0953
-80	0,000434	0,54
-70	0,0027	2,57
-60	0,00857	10,7
-55	0,0166	20,6
-50	0,0317	39,4
-48	0,0399	49,6
-46	0,0507	69,0
-44	0,0642	80,1
-42	0,0816	101,5
-40	0,102	126,9
-38	0,127	158
-36	0,159	197,8
-34	0,197	245
-32	0,244	303
-30	0,301	374
-28	0,371	461
-26	0,454	564
-24	0,554	689
-22	0,675	840
-20	0,816	1015
-19	0,899	1118
-18	0,989	1231
-17	1,09	1356
-16	1,19	1480
-15	1,31	1630
-14	1,43	1779
-13	1,57	1953
-12	1,72	2140
-11	1,80	2338
-10	2,06	2562
-9	2,25	2798
-8	2,45	3047
-7	2,68	3333
-6	2,92	3632
-5	3,18	3955
-4	3,46	4303
-3	3,77	4690
-2	4,10	5100
-1	4,46	5547

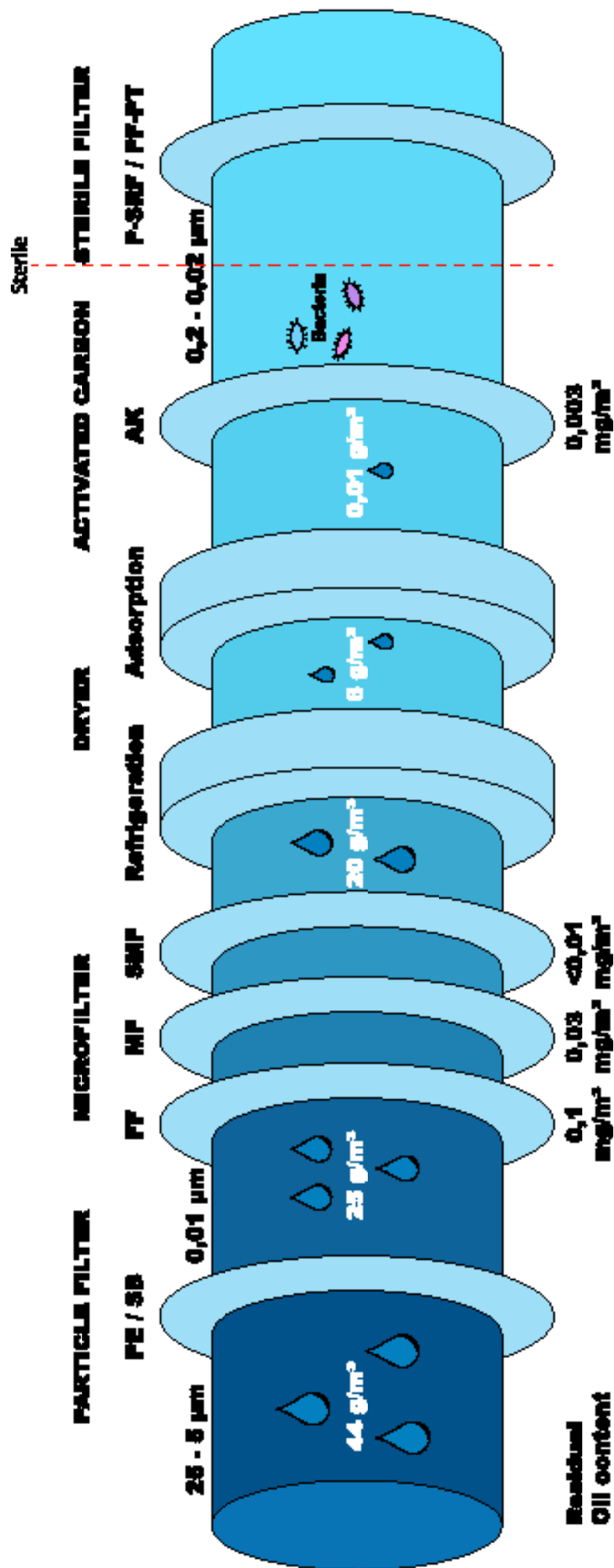
Dew Point °C	g/Nm ³	ppm
0	4,84	6020
1	5,21	6480
2	5,59	6953
3	6,02	7487
4	6,45	8022
5	6,91	8595
6	7,41	9216
7	7,94	9875
8	8,51	10584
9	9,10	11318
10	9,74	12114
11	10,4	12935
12	11,1	13806
13	11,9	14800
14	12,7	15796
15	13,5	16791
16	14,4	17885
17	15,4	19030
18	16,4	20396
19	17,4	21641
20	18,5	23020
21	19,7	24502
22	21,0	26120
23	22,3	27736
24	23,7	29477
25	25,1	31219
26	26,7	33209
27	28,3	35200
28	30,0	37312
29	31,8	39551
30	33,6	41791
35	44,6	55472
40	58,5	71761
45	76,0	94527
50	97,8	120399
55	125	155472
60	158	196652
70	247	307212
80	376	467662
90	556	691542



COMPRESSOR CAPACITY

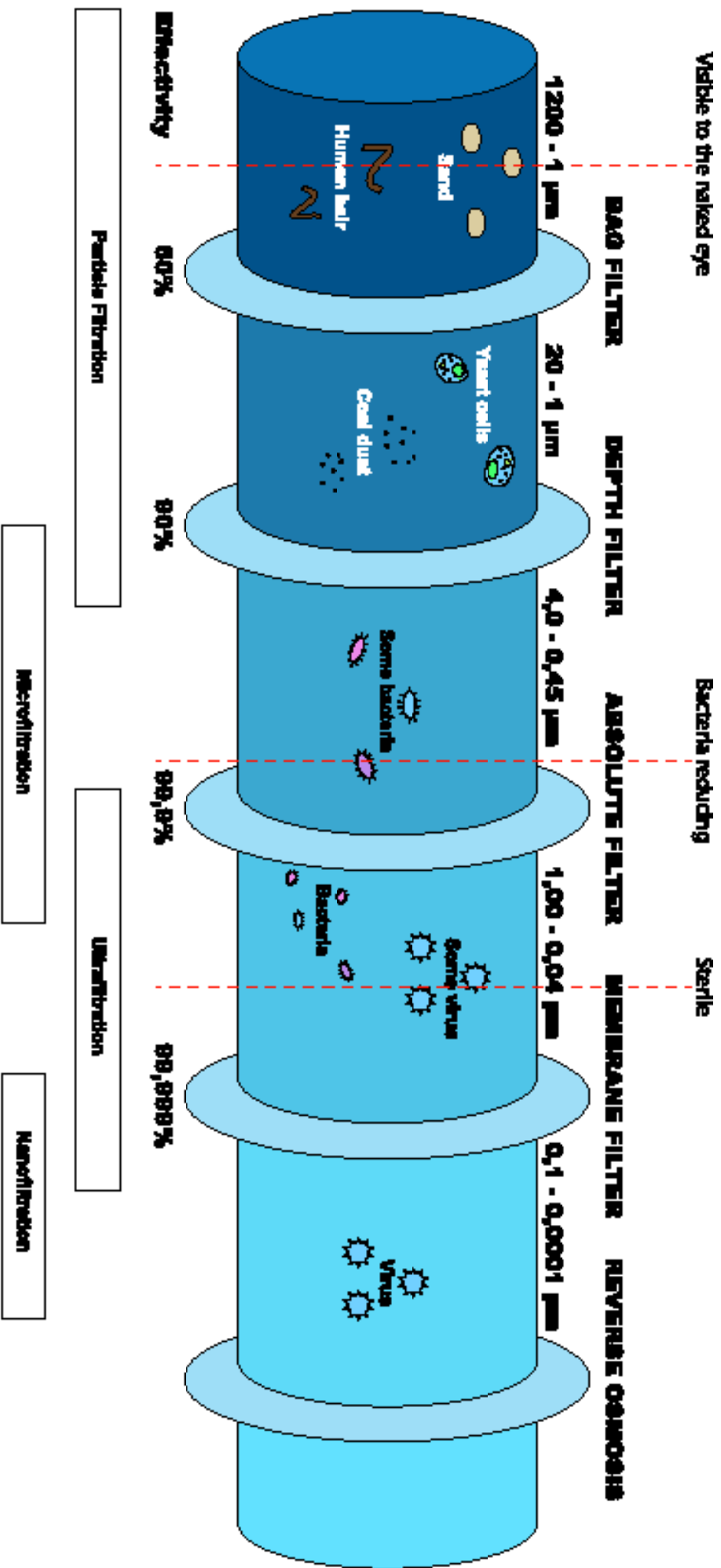
You can use this table to find the compressor capacity and size the filtration accordingly.

m ³ /h	m ³ /min	l/sek	cfm	kW	HP
5	0,08	1,39	2,9	0,5	0,7
10	0,17	2,78	5,9	1,1	1,5
15	0,25	4,17	8,8	1,5	2,0
20	0,33	5,56	11,8	2,2	3,0
25	0,42	6,94	14,7	3,0	4,0
35	0,58	9,72	20,6	4,0	5,5
50	0,83	13,89	29,4	5,5	7,5
65	1,08	18,06	38,3	7,5	10
80	1,33	22,22	47,1	9,0	
100	1,67	27,78	58,9	11,0	15
125	2,08	34,72	73,6	13,0	
150	2,50	41,67	88,3	15,0	20
175	2,92	48,61	103,0	15,0	25
225	3,75	62,50	132,4	22,0	30
300	5,00	83,33	176,6	30,0	40
375	6,25	104,17	220,7	37,0	50
450	7,50	125,00	264,9	45,0	60
550	9,17	152,78	323,7	55,0	75
650	10,83	180,56	382,6	65,0	85
750	12,50	208,33	441,4	75,0	100
850	14,17	236,11	500,3	90,0	115
1000	16,67	277,78	588,6	90,0	120
1175	19,58	326,39	691,6	110,0	150
1350	22,50	375,00	794,6	132,0	175
1500	25,00	416,67	882,9	160,0	215
1650	27,50	458,33	971,2	160,0	215
1950	32,50	541,67	1147,7	200,0	270
2250	37,50	625,00	1324,3	200,0	270
2750	45,83	763,89	1618,6	250,0	335
3500	58,33	972,22	2060,0	315,0	425
4000	66,67	1111,11	2354,3	400,0	535





LIQUID FILTRATION

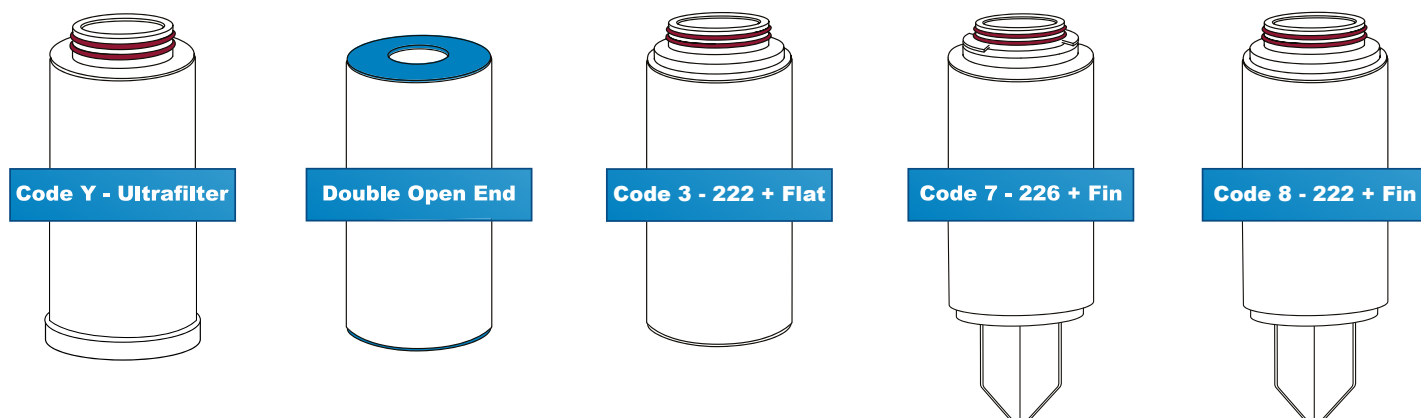


END CAP CONFIGURATIONS

Our process filter elements are available with a wide range of different end cap configurations. This ensures compatibility with nearly any filter housing and lets us replace elements from other brands.



ULTRAFILTER STANDARD END CAPS



ADDITIONAL END CAPS

Configuration name	Top End			Outlet End		
	End Fitting	Seal	Quantity	End Fitting	Seal	Quantity
Code 2	Flat	None		Open with lugs	O-ring 226	2
Code 3	Flat	None		Open	O-ring 222	2
Code 7	Fin	None		Open with lugs	O-ring 226	2
Code 8	Fin	None		Open	O-ring 222	2
Code 9	Recess	None		Flat open	O-ring 213	1
Code 18 (retro fit)	Flat	None		Open	O-ring 222	2
Code 28 (S)	Fin	None		Open with 3 lugs	O-ring 222	2
Code Y (UF)	Flat	None		Open	O-ring BS832	2
N SOE	Recess	None		Flat open	O-ring 213	1
G SOE	Flat	None		Flat open	O-ring BS118	2
G DOE 10"	Flat open	Flat gasket	1	Flat open	Flat gasket	1
DOE 9 3/4"	Flat open	Flat gasket	1	Flat open	Flat gasket	1

If you don't find your desired end cap configuration, contact Ultrafilter for availability.



THE SCANDINAVIAN FILTRATION PARTNER

SHOP ONLINE

At www.ultra-filter.com you will find a wide selection of filtration products ready for you to order.



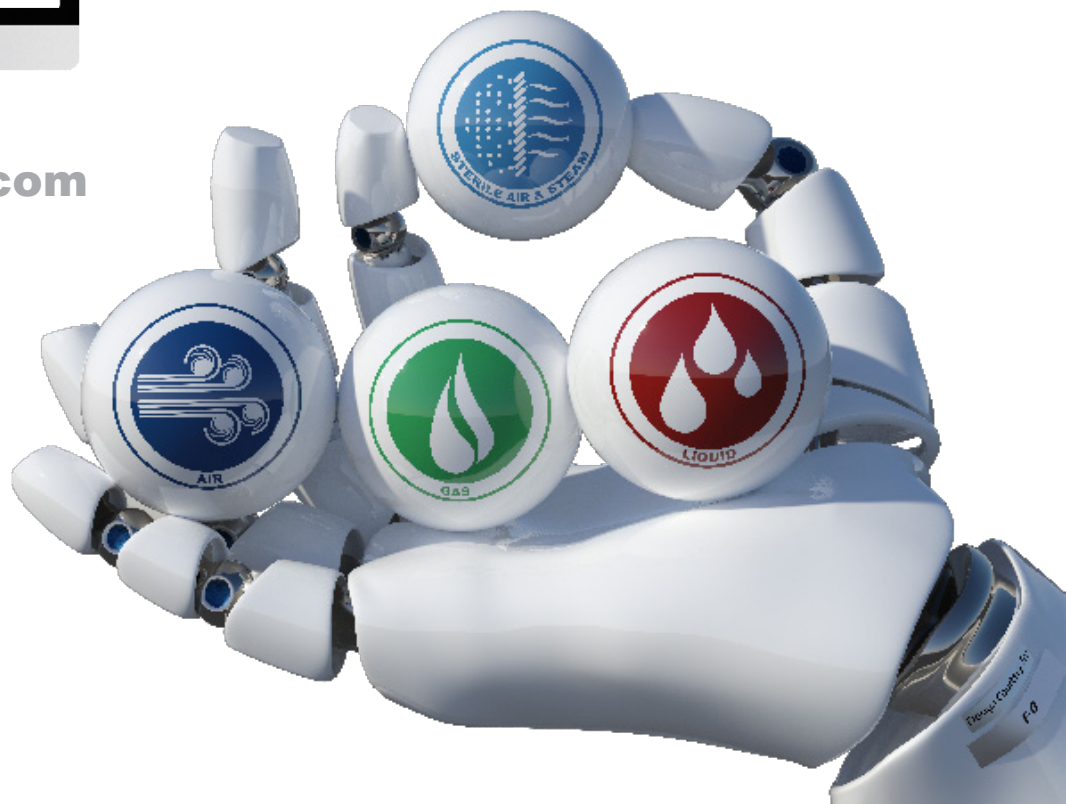
www.ultra-filter.com

ABOUT US

Ultrafilter Scandinavia offers a wide selection of filtration products for compressed air, liquids and gas. We have stock in Denmark and from here we distribute all of our products to Scandinavia and the Baltic countries.

Ultrafilter Scandinavia is a part of the Ultrafilter group. Our production facility is in Germany and we have several subsidiaries in Europe.

You can buy our products on local websites. Information about our products as well as brochures and manuals can be found on our website (www.ultra-filter.com).



ULTRAFILTER SKANDINAVIEN APS

Sunekær 1
5471 Søndersø
Denmark

+45 82 30 30 20
info@ultra-filter.com
www.ultra-filter.com