

HAFFMANS CPM[®]-PSF STERILE FILTER

GENERAL PRODUCT INFORMATION

Haffmans CPM sterile filters feature a revolutionary design that provides advantages over conventional filter cartridges for food, beverage, and other process applications.

Effective sterile air or gas filtration, to prevent contamination, spoilage and product loss, is an essential part of your production process.

The CPM sterile filter, type PSF, is a validated sterile filter for up to 100 percent contamination-free filtration of air, compressed air, carbon dioxide (CO₂), and other gases. Equipped with the patented, flexible Ecofilter[®] element, consisting of filter membranes in between segmented stainless steel disks, the PSF offers the highest filtration efficiency and security.

Sterile filter membranes have an absolute retention rate of at least 10⁻⁵. The pore size of the membrane is 3 µm, and can deliver up to 100 percent contamination-free air and gas filtration.

The innovative filter design makes up to 100 percent reverse flow filtration and in-line steam sterilization possible.



CUSTOMER BENEFITS

- **Robust design:** Stainless steel segmented elements ensure long-lasting durability.
- **Quick maintenance:** Cost-effective filter membranes are easy to replace, minimizing downtime.
- **Lower costs:** Reduced inventory and waste cut both expenses and environmental impact.
- **Sustainable:** Only the membrane is replaced, reducing material waste.
- **CIP-compatible:** Clean-in-place design eliminates the need for disassembly.

APPLICATIONS

- All industries, typically used in the brewing and beverage, food and dairy industries.

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ADVANCED MODULAR DESIGN

CPM sterile filters have the most advanced design of air and gas filters on the market today. All CPM filters have been thoroughly tested and proven effective with the greatest reliability and longest life at an economical cost.

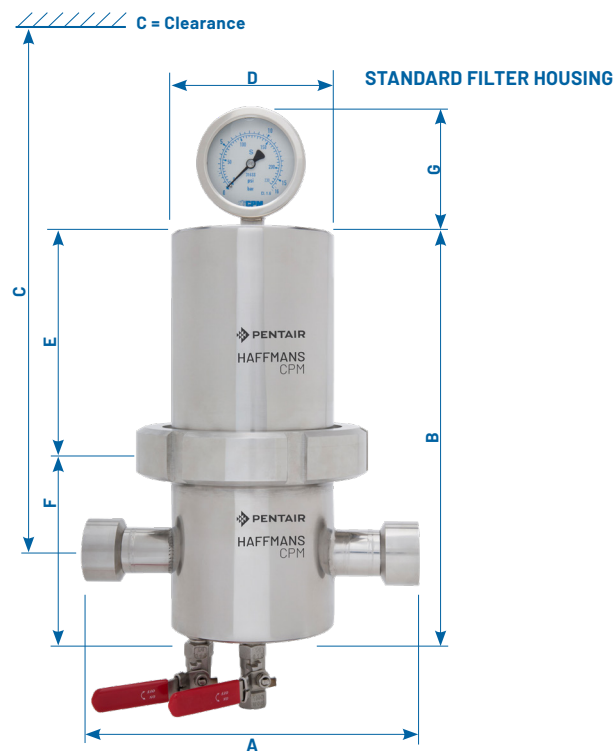
CPM sterile filters provide up to 100 percent membrane efficiency with an absolute retention rate of 3 µm. The membrane materials are pure without resins or binders thus preventing growth of any bacteria and other organisms.



STANDARD FILTER HOUSINGS

Haffmans CPM standard filter housings are designed for upstream and downstream sampling as well as in-line testing of the filter element with a suitable filter tester.

STEAM FILTER TYPE, DIMENSIONS IN MM							
Type	A	B	C	D	E	F	G
6002	160	235	310	70	143	100	85
6004	160	235	330	70	143	100	85
6006	160	235	350	70	143	100	85
8202	210	248	320	104	143	115	85
8204	210	248	340	104	143	115	85
8206	210	248	360	104	143	115	85
8208	210	293	430	104	188	115	85
8210	210	293	450	104	188	115	85
1008	330	397	500	154	237	170	85
1010	330	397	520	154	237	170	85
1012	330	397	540	154	237	170	85
1014	330	397	560	154	237	170	85
1408	330	392	500	154	234	170	85
1410	330	392	520	154	234	170	85
1412	330	392	540	154	234	170	85
1414	330	455	610	154	234	185	85
1416	330	455	630	154	234	185	85
1418	330	508	710	154	335	185	85
1420	330	508	730	154	335	185	85
1426	330	657	940	154	484	185	85
1432	330	657	1000	154	484	185	85



HAFFMANS CPM®-PSF

STERILE FILTER

TECHNICAL DATA

Filter	Capacity air/gas		Filter housing, connection	Weight			Segmented filter element	Replacement mem- branes	Filter housing, max. pressure		
Type	7 barg	100 psig	BSP	DIN-11851	Type			Quantity	Type		
	Nm³/h	scf/m	G	DN	kg	lbs				barg	psig
PSF-6002	40	24	½"	15	3.8	8	SF-60/02	2	EM-60/3T	20	290
PSF-6004	80	48	½"	15	4.0	9	SF-60/04	4	EM-60/3T	20	290
PSF-6006	120	72	½"	15	4.2	9	SF-60/06	6	EM-60/3T	20	290
PSF-8202	120	72	1"	25	6.4	14	SF-82/02	2	EM-82/3T	20	290
PSF-8204	240	144	1"	25	6.6	15	SF-82/04	4	EM-82/3T	20	290
PSF-8206	360	216	1½"	40	6.8	15	SF-82/06	6	EM-82/3T	20	290
PSF-8208	480	288	1½"	40	7.2	16	SF-82/08	8	EM-82/3T	20	290
PSF-8210	600	360	1½"	40	7.4	16	SF-82/10	10	EM-82/3T	20	290
PSF-1008	680	408	2"	50	14.4	32	SF-100/08	8	EM-100/3T	16	232
PSF-1010	850	510	2"	50	13.8	30	SF-100/10	10	EM-100/3T	16	232
PSF-1012	1020	612	2"	50	14.2	31	SF-100/12	12	EM-100/3T	16	232
PSF-1014	1190	714	2"	50	14.6	32	SF-100/14	14	EM-100/3T	16	232
PSF-1408	1360	816	2"	50	20.0	44	SF-140/08	8	EM-140/3T	16	232
PSF-1410	1700	1020	2"	50	20.5	45	SF-140/10	10	EM-140/3T	16	232
PSF-1412	2040	1224	2"	50	21.5	47	SF-140/12	12	EM-140/3T	16	232
PSF-1414	2380	1428	2 ½"	65	22.5	50	SF-140/14	14	EM-140/3T	16	232
PSF-1416	2720	1632	2 ½"	65	24.5	54	SF-140/16	16	EM-140/3T	16	232
PSF-1418	3060	1836	2 ½"	65	25.5	56	SF-140/18	18	EM-140/3T	16	232
PSF-1420	3400	2040	3"	80	26.5	58	SF-140/20	20	EM-140/3T	16	232
PSF-1426	4420	2652	3"	80	28.0	62	SF-140/26	26	EM-140/3T	16	232
PSF-1432	5440	3264	3"	80	29.5	65	SF-140/32	32	EM-140/3T	16	232

Working pressure	barg	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	psig	14.5	29	43.5	58	72.5	87	101.5	116	130.5	145	159.5	174	188.5	203	217.5	232
Conversion factor		0.25	0.38	0.50	0.63	0.75	0.9	1.0	1.1	1.3	1.4	1.5	1.6	1.8	1.9	2.0	2.1

Filter housing material Stainless steel AISI 304

Segmented filter element material Stainless steel AISI 304

Filter membrane material PTFE (polytetrafluoroethylene)

Retention rate absolute 3 µm

RECOMMENDED STERILIZATION PROCEDURES

Saturated steam 20 minutes at 250 °F (121 °C)
 10 minutes at 266 °F (130 °C)
 6 minutes at 284 °F (140 °C)

Hot air 12 hours at 250 °F (121 °C)



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