



CPM
MICROFILTRATION
ECOFILTERSYSTEM

FILTER TYPE	PSF-8206	FILTER NAME	STERILE FILTER
MEMBRANE TYPE	EM-82/3T	PCS	6
Haffmans BV		e-mail: CPM@pentair.com	

CPM
MICROFILTRATION

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HAFFMANS CPM[®] PRE-FILTERS



CPM® PRE-FILTERS

THE ECONOMIC ART OF FILTRATION

INTRODUCTION

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

GENERAL PRODUCT INFORMATION

Effective pre-filtration is an essential part of your production process and serves as protection for the air and gas line instruments.

The CPM pre-filter, type PVF, is a validated pre-filter for 100 percent particle-free filtration of all types of 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 PVF offers the highest filtration efficiency and security.

The PVF's filter membranes are made of woven stainless steel threads that assure absolute filtration. CPM pre-filter membranes can be supplied in a variety of pore sizes to meet your special requirements and allow for high flow capacities against very little pressure loss. The innovative filter design makes 100 percent reverse flow filtration possible.

With the PVF MINI there is also a solution available that offers all the advantages of the CPM pre-filters at a lower cost.

APPLICATIONS

Particle-free finest filtration of all types of compressed air, CO₂ and other gases in all industries

ADVANCED MODULAR DESIGN

CPM pre-filters have the most advanced design of filters for compressed air, CO₂ and other gases 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.

FEATURES

- Unique and flexible modular filter design
- Robust stainless steel construction, including stainless steel membranes, results in no damage or aging of the filter element
- Only the filter element is replaced as a wear part
- Easy up- and downscaling of filter capacity
- High filter capacities possible
- Filter elements can be retrofitted within conventional filter housings
- CPM standard filter housings are equipped with condensate release connections for both the inlet and outlet that can also be used for filter element testing
- 100 percent reverse flow filtration and sterilization possible
- Absolute pore size of woven stainless steel thread membranes provides absolute filtration
- Filter membranes can be chemically and/or mechanically cleaned

BENEFITS

- Up to 50 percent of Total Cost of Ownership savings due to:
 - Robust stainless steel segmented filter elements
 - Use of easy-to-exchange cost-effective filter membranes
 - Reduced inventory and disposal costs
- High filtration security
 - Easy control of proper filter performance, easy detection of filter damages
- Sustainable Solution, less waste due to replacement of just the filter membrane, filter membrane is 100% recyclable



SUPERIOR MEMBRANE TECHNOLOGY



CPM pre-filters use an innovative membrane technology that allows for 100 percent particle-free filtration of all types of compressed air, CO₂ and other gases. The filter membranes are available in various sizes. Standard pore size delivered is 32 µm. Other pore sizes available are 3, 10, 25, 50, 75, 100 and 200 µm.

OPTIMAL PRODUCTION CONTROL



The CPM Ecofilter's all stainless steel construction guarantees high temperature resistance. CPM pre-filters come standard with a glycerine-filled pressure gauge (except MINI series).

MAXIMUM FLEXIBILITY



All CPM pre-filters with standard filter housings can be used for primary and secondary sampling, and to drain condensate. CPM pre-filters are optionally delivered with valves for condensate release connections.

TECHNICAL DATA

Filter	Capacity air/gas		Filter housing, connection		Weight		Segmented filter element	Replacement membranes		Filter housing, max. pressure	
	Type	7 barg	100 psig	BSP	DIN-11851		Type	Quantity	Type		
	Nm ³ /h	scf/m	G	DN	kg	lbs				barg	psig
PVF-602 MINI	40	24	½"	15	2.2	5	SF-60/02	2	EM-60/32S	10	145
PVF-604 MINI	80	48	½"	15	2.5	6	SF-60/04	4	EM-60/32S	10	145
PVF-606 MINI	120	72	½"	15	2.8	6	SF-60/06	6	EM-60/32S	10	145
PVF-6002	40	24	½"	15	3.8	8	SF-60/02	2	EM-60/32S	16	232
PVF-6004	80	48	½"	15	4.0	9	SF-60/04	4	EM-60/32S	16	232
PVF-6006	120	72	½"	15	4.2	9	SF-60/06	6	EM-60/32S	16	232
PVF-8202	120	72	1"	25	6.4	14	SF-82/02	2	EM-82/32S	16	232
PVF-8204	240	144	1"	25	6.6	15	SF-82/04	4	EM-82/32S	16	232
PVF-8206	360	216	1 ½"	40	6.8	15	SF-82/06	6	EM-82/32S	16	232
PVF-8208	480	288	1 ½"	40	7.2	16	SF-82/08	8	EM-82/32S	16	232
PVF-8210	600	360	1 ½"	40	7.4	16	SF-82/10	10	EM-82/32S	16	232
PVF-1008	680	408	2"	50	14.4	32	SF-100/08	8	EM-100/32S	16	232
PVF-1010	850	510	2"	50	13.8	30	SF-100/10	10	EM-100/32S	16	232
PVF-1012	1020	612	2"	50	14.2	31	SF-100/12	12	EM-100/32S	16	232
PVF-1014	1190	714	2"	50	14.6	32	SF-100/14	14	EM-100/32S	16	232
PVF-1408	1360	816	2"	50	20.0	44	SF-140/08	8	EM-140/32S	16	232
PVF-1410	1700	1020	2"	50	20.5	45	SF-140/10	10	EM-140/32S	16	232
PVF-1412	2040	1224	2"	50	21.5	47	SF-140/12	12	EM-140/32S	16	232
PVF-1414	2380	1428	2 ½"	65	22.5	50	SF-140/14	14	EM-140/32S	16	232
PVF-1416	2720	1632	2 ½"	65	24.5	54	SF-140/16	16	EM-140/32S	16	232
PVF-1418	3060	1836	2 ½"	65	25.5	56	SF-140/18	18	EM-140/32S	16	232
PVF-1420	3400	2040	3"	80	26.5	58	SF-140/20	20	EM-140/32S	16	232
PVF-1426	4420	2652	3"	80	28.0	62	SF-140/26	26	EM-140/32S	10	145
PVF-1432	5440	3264	3"	80	29.5	65	SF-140/32	32	EM-140/32S	10	145

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

Pore sizes in µm	3	10	25	32	50	75/100
Conversion factor	0.5	0.6	0.8	1.0	1.2	1.5

Filter housing material

Stainless steel AISI 304

Segmented filter element material

Stainless steel AISI 304

Filter membranes material

Stainless steel AISI 304

Standard pore size

32 µm

Available pore sizes

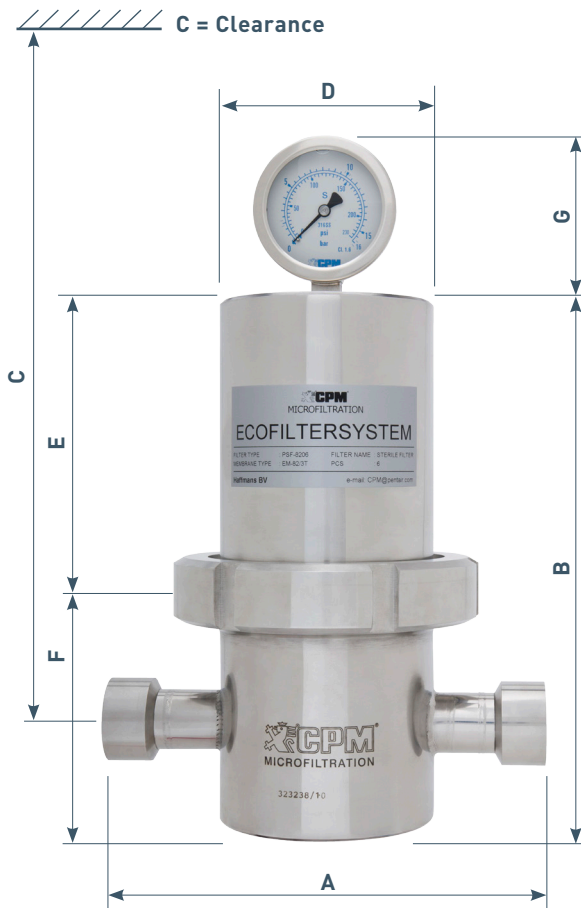
3,10, 25, 32, 50, 75, 100, 200 µm

STANDARD FILTER HOUSINGS

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.

Filter housing, dimensions in mm							
Type	A	B	C	D	E	F	G
602 MINI	160	x	320	70	175	45	x
604 MINI	160	x	340	70	175	45	x
606 MINI	160	x	360	70	175	45	x
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

STANDARD FILTER HOUSING



MINI FILTER HOUSING





HAFFMANS BV

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