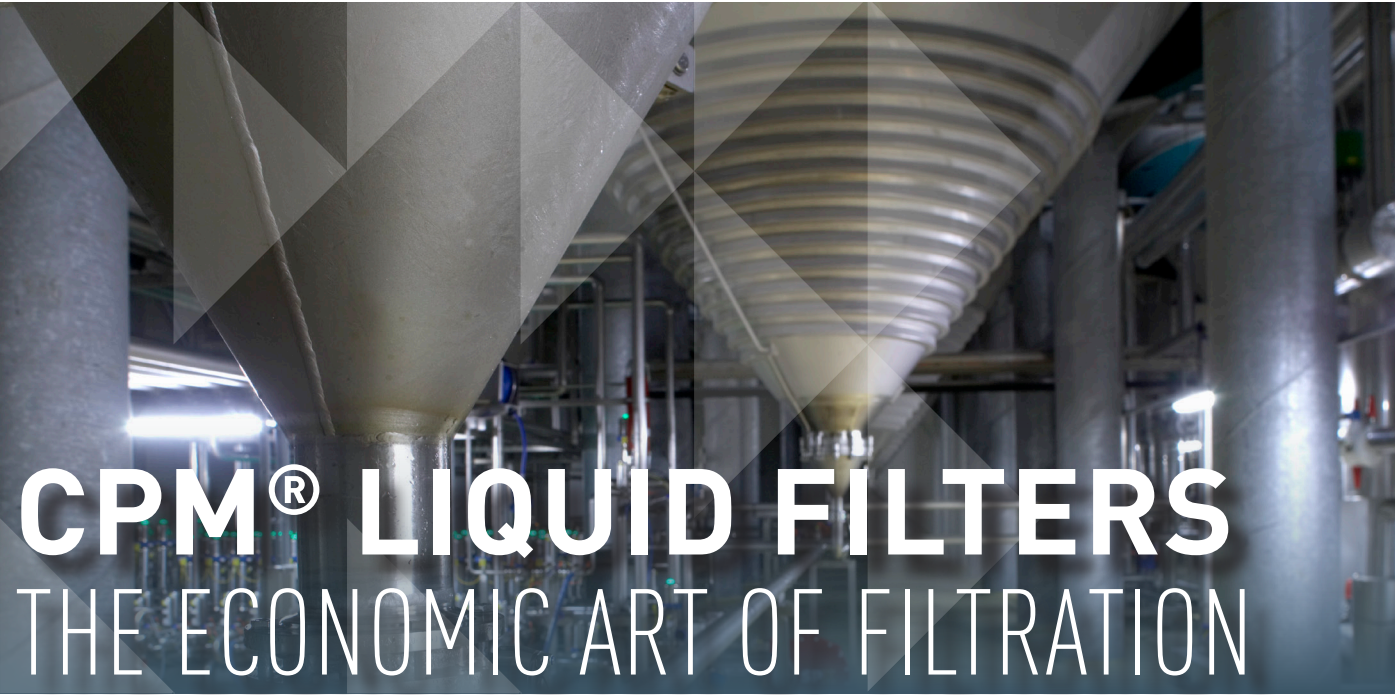




HAFFMANS CPM[®] LIQUID FILTERS



CPM® LIQUID FILTERS

THE ECONOMIC ART OF FILTRATION

INTRODUCTION

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

GENERAL PRODUCT INFORMATION

Effective liquid filtration, to prevent contamination, spoilage and product loss, is an essential part of your production process. In addition, it serves as protection for the liquid line instruments and valves.

The CPM liquid filter, type PFF, is a validated liquid filter for 100 percent particle-free filtration of liquids, typically water. Equipped with the patented, flexible Ecofilter®element, consisting of filter membranes in between segmented stainless steel disks, the PFF offers the highest filtration efficiency and security.

The PFF's filter membranes are made of woven stainless steel threads that assure absolute filtration. CPM liquid 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.

CPM liquid filters can be steam sterilized in situ up to 200 °C (392 °F).

With the PFF MINI there is also an option available that offers all the advantages of the CPM liquid filters at a lower cost.

APPLICATIONS

Particle-free water filtration in all industries

ADVANCED MODULAR DESIGN

CPM liquid filters have the most advanced design of filters for liquid filtration 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

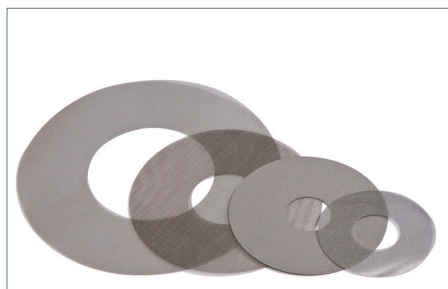
- Unique and flexible modular filter design
- Robust stainless steel construction, including stainless steel membranes, results in no damage or aging of the filter element
- Only the filter membrane is replaced as a wear part
- Easy up- and downscaling of filter capacity
- High filter capacities possible
- 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 liquid filters use an innovative membrane technology that allows for 100 percent particle-free filtration of liquids, typically water. 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, 150 and 200 µm.

OPTIMAL PRODUCTION CONTROL



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

MAXIMUM FLEXIBILITY



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

TECHNICAL DATA

Filter	Capacity clear water	Filter housing, connection		Weight		Segmented filter element	Replacement membranes		Filter housing, max. pressure		
Type	ΔP 0.2 bar	BSP	DIN-11851			Type	Quantity	Type			
l/h		G	DN	kg	lbs	barg					psig
PFF-602 MINI	60	½"	15	2.2	5	SF-60/02	2	EM-60/32S	10	145	
PFF-604 MINI	120	½"	15	2.5	6	SF-60/04	4	EM-60/32S	10	145	
PFF-606 MINI	180	½"	15	2.8	6	SF-60/06	6	EM-60/32S	10	145	
PFF-6002	60	½"	15	3.8	8	SF-60/02	2	EM-60/32S	16	232	
PFF-6004	120	½"	15	4.0	9	SF-60/04	4	EM-60/32S	16	232	
PFF-6006	180	½"	15	4.2	9	SF-60/06	6	EM-60/32S	16	232	
PFF-8202	200	1"	25	6.4	14	SF-82/02	2	EM-82/32S	16	232	
PFF-8204	400	1"	25	6.6	15	SF-82/04	4	EM-82/32S	16	232	
PFF-8206	600	1 ½"	40	6.8	15	SF-82/06	6	EM-82/32S	16	232	
PFF-8208	800	1 ½"	40	7.2	16	SF-82/08	8	EM-82/32S	16	232	
PFF-8210	1000	1 ½"	40	7.4	16	SF-82/10	10	EM-82/32S	16	232	
PFF-1008	1800	2"	50	14.4	32	SF-100/08	8	EM-100/32S	16	232	
PFF-1010	2250	2"	50	13.8	30	SF-100/10	10	EM-100/32S	16	232	
PFF-1012	2700	2"	50	14.2	31	SF-100/12	12	EM-100/32S	16	232	
PFF-1014	3150	2"	50	14.6	32	SF-100/14	14	EM-100/32S	16	232	
PFF-1408	4000	2"	50	20.0	44	SF-140/08	8	EM-140/32S	16	232	
PFF-1410	5000	2"	50	20.5	45	SF-140/10	10	EM-140/32S	16	232	
PFF-1412	6000	2"	50	21.5	47	SF-140/12	12	EM-140/32S	16	232	
PFF-1414	7000	2 ½"	65	22.5	50	SF-140/14	14	EM-140/32S	16	232	
PFF-1416	8000	2 ½"	65	24.5	54	SF-140/16	16	EM-140/32S	16	232	
PFF-1418	9000	2 ½"	65	25.5	56	SF-140/18	18	EM-140/32S	16	232	
PFF-1420	10000	3"	80	26.5	58	SF-140/20	20	EM-140/32S	16	232	
PFF-1426	13000	3"	80	28.0	62	SF-140/26	26	EM-140/32S	10	145	
PFF-1432	16000	3"	80	29.5	65	SF-140/32	32	EM-140/32S	10	145	

Pore sizes in µm	3	10	25	32	50	75/100
Conversion factor	0.5	0.6	0.8	1.0	1.2	2

Filter housing material

Stainless steel AISI 304

Segmented filter element material

Stainless steel AISI 304

Filter membrane material

Stainless steel AISI 304

Standard pore size

32 µm

Available pore sizes

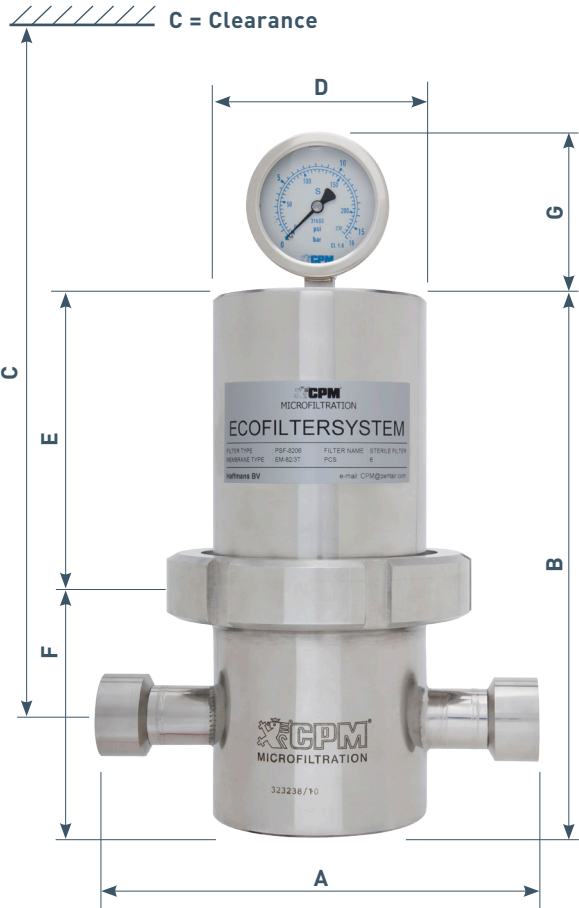
3, 10, 25, 32, 50, 75, 100, 150, 200 µm

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

P.O. BOX 3150, 5902 RD VENLO, NETHERLANDS WWW.HAFFMANS.NL

All Pentair trademarks and logos are owned by Pentair, Inc. All other brand or product names are trademarks or registered marks of their respective owners. Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice.

Pentair is an equal opportunity employer.

CPM PFF E-8/12 © 2012 Pentair, Inc. All Rights Reserved.