



HAFFMANS CPM[®] VENTING FILTERS



CPM® VENTING FILTERS

THE ECONOMIC ART OF FILTRATION

INTRODUCTION

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

GENERAL PRODUCT INFORMATION

Ambient air easily enters non-pressurized tanks and containers during the emptying process. Effective sterile filtration, to prevent contamination, spoilage and product loss, is an essential part of your production process.

The CPM venting filter, type BA, allows for 100 percent sterile venting of storage tanks and containers in many industries, typically the water and dairy industries. Equipped with the patented, flexible Ecofilter® element, consisting of filter membranes in between segmented stainless steel disks, the BA offers the highest filtration efficiency and security.

The BA's filter membranes, made of high-quality PTFE, are permanently hydrophobic and reject bacteria transfer and growth. The filter membranes have an absolute retention rate of 0.2 µm and an extremely high, 95 percent, pore distribution. This allows high flow capacities against very little pressure loss.

The innovative filter design makes 100 percent reverse flow filtration and in-line steam sterilization possible. CPM venting filters are sterilizable in situ using steam up to 140 °C (284 °F) and can be autoclaved.

APPLICATIONS

All industries, typically used in the water, soft drink and dairy industries

ADVANCED MODULAR DESIGN

CPM venting filters have the most advanced design of sterile 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.

FEATURES

- Unique and flexible modular filter design
- Robust stainless steel construction, no damage or aging of filter element
- Only the filter membrane is replaced as a wear part
- Easy up- and downscaling of filter capacity
- High temperature resistance of filter membranes that can be sterilized up to 140 °C (284 °F)
- High filter capacities possible
- 100 percent reverse flow filtration and sterilization possible

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
 - Long filter membranes lifetime – can be sterilized up to 150 times
 - 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

SUPERIOR MEMBRANE TECHNOLOGY



CPM venting filters provide 100 percent membrane efficiency with an absolute retention rate of 0.2 µm. The membrane materials are pure without resins or binders thus preventing growth of any bacteria and other organisms.



TECHNICAL DATA

Filter Type	Capacity air, ΔP 0.02 bar		Filter housing, connection	Weight		Segmented filter element Type	Replacement membranes	
	Nm ³ /h	scf/m		kg	lbs		Quantity	Type
MINI*	1,7	1	Plug 26.6 mm	0.4	1	SF-BA-60/02	2	EM-60/3T
BA-1	5	3	25/40	3.0	7	SF-BA-82/02	2	EM-82/3T
BA-2	8.5	5	50	3.5	8	SF-BA-100/02	2	EM-100/3T
BA-3	17	10	65	5.3	12	SF-BA-140/02	2	EM-140/3T
BA-4	34	20	65	6.1	13	SF-BA-140/04	4	EM-140/3T
BA-5	51	30	65	6.9	15	SF-BA-140/06	6	EM-140/3T
BA-6	68	40	80	7.8	17	SF-BA-140/08	8	EM-140/3T
BA-7	85	50	80	8.7	19	SF-BA-140/10	10	EM-140/3T
BA-8	102	60	80	9.6	21	SF-BA-140/12	12	EM-140/3T
BA-9	119	70	80	10.5	23	SF-BA-140/14	14	EM-140/3T
BA-10	136	80	80	11.4	25	SF-BA-140/16	16	EM-140/3T

*delivered without weather protection cap

Filter housing material

Stainless steel AISI 304

Filter membrane material

PTFE (polytetrafluoroethylene)

Retention rate absolute

0.20 μm

RECOMMENDED STERILIZATION PROCEDURES

Saturated steam

20 minutes at 121 °C (250 °F)

10 minutes at 130 °C (266 °F)

6 minutes at 140 °C (284 °F)

Hot air

12 hours at 121 °C (250 °F)

CPM VENTING FILTER DIMENSIONS

Venting filter type, dimensions in mm						
Type	DIN-11851	A	B	C	D	E
MINI	Plug 26.6 mm		55	80	60	X
BA-1	DN-25/DN40		120	200	104	80
BA-2	DN-50		150	230	129	80
BA-3	DN-65		150	230	154	80
BA-4	DN-65		170	270	154	100
BA-5	DN-65		195	320	154	125
BA-6	DN-80		220	370	154	150
BA-7	DN-80		254	420	154	175
BA-8	DN-80		270	470	154	200
BA-9	DN-80		300	530	154	230
BA-10	DN-80		420	670	154	250

STANDARD FILTER HOUSING





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