



HAFFMANS

CPM[®]

FILTRATION SOLUTIONS



CPM® MODULAR FILTERS

TRUE SYSTEM SECURITY

AIR, GAS, STEAM & LIQUID FILTRATION

ECOFILTER

Dairy, food and beverage manufacturers are more concerned than ever about ensuring product and process safety. Haffmans' CPM filtration solutions offer an economical option to help processors prevent contamination, spoilage and product loss. The compact filter media saves on inventory space and provides a sustainable solution – less waste due to replacement of just the filter membrane.

CPM filters are equipped with the patented, Ecofilter® element. Consisting of filter membranes in between segmented stainless steel disks, the Ecofilter element offers the highest filtration efficiency and security.

- **Pre-Filters, type PVF**
The woven stainless steel threads assure that the pre-filter provides 100 percent particle-free filtration for compressed air, carbon dioxide (CO₂) and other gases.
- **Sterile Filters, type PSF**
The sterile filter membranes have an absolute retention rate of 0.2 µm and deliver 100 percent contamination-free air and gas filtration.
- **Steam Filters, type PDF**
Available in a variety of pore sizes, the steam filter provides 100 percent particle-free air and gas filtration.
- **Liquid Filters, type PFF**
Liquid filters provide 100 percent particle-free filtration of liquids, typically water, and can be steam sterilized in situ up to 392 °F.
- **Venting Filters, type BA**
The venting filter offers sterile venting of storage tanks and containers in water, dairy and other industries.

MINI FILTERS

The PVF, PSF, PDF, and PFF MINIs offer a solution with the advantages of the CPM filters at a lower cost.

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 filter performance and detection of filter damages
- Sustainable solution, less waste due to replacement of just the filter membrane



ECOFILTER FEATURES

CPM filters are thoroughly tested and proven effective with the greatest reliability and longest life at an economical cost.

- Unique and flexible modular filter design
- Only the filter membrane is replaced as a wear part
- Easy up- and down-scaling of filter capacity
- High filter capacities possible
- Filter elements can be retrofitted within conventional filter housings
- Standard filter housings have condensate release connections for both the inlet and outlet that can be used for testing*
- Come standard with a glycerine-filled pressure gauge (except MINI series)*
- 100 percent reverse flow filtration and sterilization possible
- Filter membrane types PFF, PVF and PDF can be chemically and / or mechanically cleaned, and types PSF and BA can be sterilized up to 284 °F

* Does not apply to Venting Filters, type BA



ADDITIONAL CPM SOLUTIONS

Coalescence & AC Filters

The CPM coalescence filter, type PSMF, is a validated filter for removing residual oil, water and solid particles. In the filter element, liquid droplets and particles are captured, coalesced and drained to the bottom of the filter housing for easy removal through the condensate drain.

The CPM activated carbon filter, type PAK, is a validated adsorption filter for removing residual oil vapor.

Type PSMF-AK, combines both filter types into a two-stage process that ensures the most efficient gas treatment.

Filter Test Equipment

The CPM Filter Tester, type MK-2, provides easy testing of CPM filter elements as well as most conventional filter cartridges.

The test provides very fast and accurate results. To simulate micro-organisms, a non-toxic micro-fog is applied under pressure from an integrated compressor to the filter. The fine fog particles penetrate even the smallest leaks providing immediate visual identification.



Wort Aeration

At wort aeration, yeast propagation, carbonation, and other fermentation processes, effective sterile gas dosing helps prevent contamination, spoilage and product loss.

The CPM Gazijector combines the functions of sterile gas filtration, a check valve and an air atomizer in one unit. This provides advantages over conventional gas injectors.

The CPM Gazijector provides 100 percent contamination-free filtration of air, compressed air, CO₂ and other gases when they pass through the fumigation chamber and enter the product line.

The fumigation chamber is equipped with an Ecofilter element. Made of high-quality PTFE, the filter membrane is permanently hydrophobic, rejects bacteria transfer and growth, and has an absolute retention rate of 0.2 µm. The Gazijector allows for CIP during the cleaning of the product line and in-line steam sterilization from the gas line side.





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