



HAFFMANS

CPM[®] FILTRATION
SOLUTIONS

MICROFILTRATION OF
STEAM, GASES, AND LIQUIDS

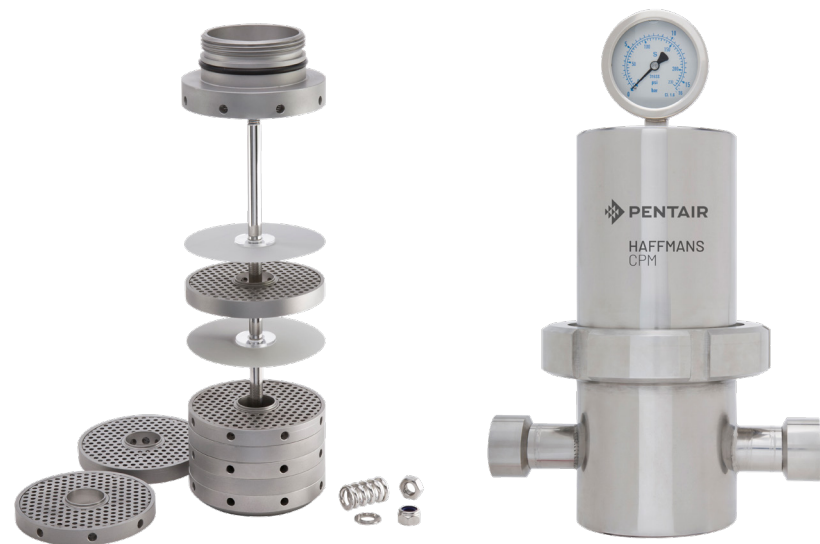
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SECURE, STERILE, SUSTAINABLE HAFFMANS CPM® FILTERS

AIR, GAS, STEAM & LIQUID FILTRATION

Haffmans CPM is Pentair's microfiltration solution designed to safeguard food and beverage production by filtering gases, liquids, and steam (CO₂, O₂, H₂O).

CPM filters help ensure your processes remain free of particles and/or free of microorganisms, supporting quality, safety, and efficiency across brewing, beverage, and industrial applications.



VORTEILE

- 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.

OPTIONS

Pre-Filters, type PVF

The woven stainless steel threads assure that the pre-filter provides up to 100 percent particle-free filtration for compressed air, carbon dioxide (CO₂) and other gases.

Sterile Filters, type PSF

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.

Steam Filters, type PDF

Available in a variety of pore sizes, the steam filter provides up to 100 percent particle-free steam filtration.

Liquid Filters, type PFF

Liquid filters provide up to 100 percent particle-free filtration of water, and can be steam sterilized in situ up to 200 °C (392 °F).

Ecofilter

The Ecofilter® is a patented, flexible filter element used in a CPM filter. It features a hydrophobic PTFE membrane layered between segmented stainless steel disks, delivering at least 10⁻⁵ absolute retention.

This ensures sterile gas filtration, prevents bacterial transfer, and acts as a check valve — blocking product backflow even under pressure differentials up to 2.75 bar.

It's fully compatible with CIP and in-line steam sterilization, making it ideal for hygienic applications in food, beverage, and fermentation processes.

Pentair also offers stainless steel membrane elements for its PVF, PSF, and PDF filter types, featuring a standard pore size of 32 µm.

FEATURES

- 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.
- 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 can be sterilized up to 140 °C (284 °F).

ADDITIONAL CPM SOLUTIONS

Filter Test Equipment

The CPM Filter Tester, type MK-3, visually tests sterile filter elements and cartridges, with non-toxic saturated hydrocarbon liquid that is applied under pressure to the filter element.

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.



PENTAIR SERVICE

PREVENTATIVE MAINTENANCE

Our comprehensive service plans ensure your Pentair equipment meets expectations for plant availability, product quality, and process safety.

SPARE PARTS

Pentair offers original spare parts for preventative maintenance and repairs, reducing costs and risks with fast availability.

SERVICE AUDITS

On-site inspections and preventative maintenance maximize plant performance, with detailed reports on status and performance.

SERVICE LEVEL AGREEMENTS

Transparent expectations for response times, spare parts availability, and system performance.



- Maximum operation uptime
- Reduced maintenance costs
- Variety of service options

CONTACT US



Contact us today to optimize your process with Pentair CPM Filtration.



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