

ScottCart PreMembrane GF

Adsorptive High Capacity Filter Cartridges

Description

ScottCart PreMembrane GF microfiltration cartridges can be used for most beverage applications including clarification, stabilization and bio burden reduction.

ScottCart PreMembrane GF cartridges are optimized for the protection of downstream membrane filter systems and clarification in food and beverage applications. Due to their high adsorptive power by glass micro fiber, they are the ideal solution for removal of charged colloids from beverages.

The advanced Glass Microfibre media has a strong net negative charge and has been selected due to its enhanced depth characteristics and exceptionally low-pressure drops. This is combined with a downstream polypropylene media to support and strengthen the system.

This highly efficient media combination is stable even in the most severe CIP (Clean In Place) systems. The optimized pleated depth media offers high flow rates, excellent dirt holding capacity and superior retention levels. Its high filtration efficiency and dirt capacity makes it an excellent choice for use in almost all beverage processes.

High Adsorption

Based on electrostatic forces of attraction, the negatively charged glass fiber material

retains positively charged, small particles that would otherwise pass through the filter. These particles can even be smaller than the nominal filter retention rate.

Defined Retention Rates

The key feature of ScottCart PreMembrane GF cartridges is their defined and accurate retention rating >99.9%!

High Profitability

The cartridges' high flow rates at a low differential pressure reduce overall costs as less energy is used. Moreover, a high total throughput guarantees the maximum in process profitability.

Flexibility

ScottCart PreMembrane GF filters are available as standard 30" Code 7 and Code 8 filter cartridges in a 0.5 micron porosity.

Product Features

- Bacterial retention data with LRVs using *Oenococcus oeni*
- Pleated Glass Microfibre media giving high flow rates and low initial pressure losses
- Polypropylene hardware with Polyester drainage layers
- Standard 30", C7 size
- 0.5 micron porosity for optimum protection of all membranes ranging from 0.2 to 0.45µm

- Materials meet US FDA CFR Title 21 requirements
- Wide chemical compatibility, meets FDA requirements
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification mark on every cartridge
- Suitable for most sanitization regimens including steaming, autoclaving, hot water flush and most common sanitizing agents

Applications

Food and Beverage • Wine, Bottled water, Beer, Cider, flavor extracts, distilled spirits
Water Treatment • Potable water, Pre/Post UV, Membrane protection

Sterilization and Sanitization

Steam or Autoclave: 249.8°F (121°C) for 15 mins (40 cycles)

Hot Water: 194°F (90°C) for 30 mins (3 psi or 0.2 bar Δp max)

Standard Materials of Construction

Filter Media: Glass Microfibre
 Media support: Polyester
 End Caps: Polypropylene
 Cage/Core: Polypropylene

Maximum Operating Conditions

Temperature: 176°F (80°C)

Recommended Maximum Differential Pressure:

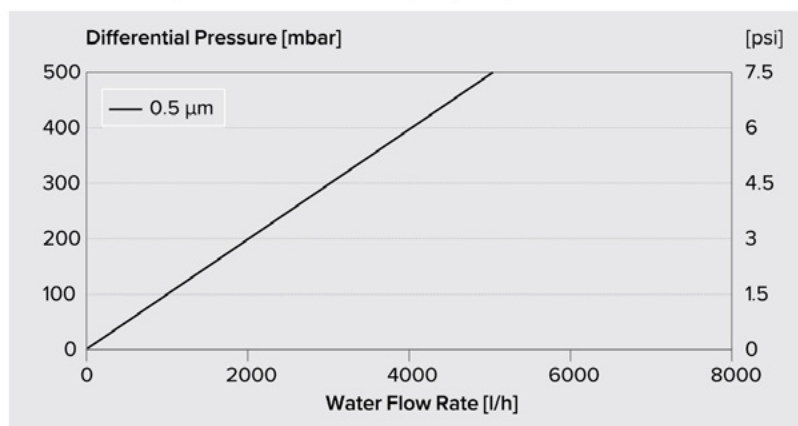
5 bar | 72.5 psi at 68°F (20°C)

2 bar | 29 psi at 176°F (80°C)

Max. Allowable Back Pressure: 2 bar | 29 psi at 68°F (20°C)

Recommended change-out differential pressure: Before 2.5 bar (36 psi)

Water Flow Rates per 10" Element at 68°F (20°C) 0.5 µm



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