amcAccuFlow HP 1

amcAccuFlow HP

Cartridges-Modified Polyethersulfone Filters



amcAccuFlow HP cartridge is a premium sterilizing-grade filter product combining two layers of amcAccupor membrane with thermally bonded polypropylene components to provide a durable filter for aggressive microfiltration applications. Its double layer membrane configuration makes the cartridge ideally suited for final filtration in critical applications, especially those involving fluids at high temperatures.

amcAccuFlow HP cartridge is manufactured under tightly controlled procedures for consistent and reliable performance. During manufacturing, each amcAccuFlow HP cartridge is flushed with proprietary solvents, followed by purified water, and integrity tested to ensure product quality.

amcAccuFlow HP cartridge is compatible with multiple autoclave and in-line steam sterilization, as well as chemical sanitization methods.

Performance Advantages

Constructed of only two materials, i.e., modified polyethersulfone and polypropylene with no adhesives to ensure lower extractables

Manufactured under stringent processes to ensure highest level of quality and consistency

Provides high particle retention to minimize filter change-outs during batch processing

Maximizes recovery of critical solution components with *amc*Accupor PES membrane's extensive drug compatibility and low protein binding characteristics

Offers great resistance to severe sanitizing agents such as hot water, concentrated hydrogen peroxides, and active chloride compounds

100% integrity tested in production to ensure optimal quality product

Typical Applications

Parenterals, ophthalmics, oral and topical medicines, serum, tissue culture media, wash and rinse water, diagnostic reagents, buffers, vaccines, bottle and vial washers, make-up water

Specifications

Materials of Construction

Filter Media: Two layers of pleated amcAccupor membrane (modified hydrophilic PES membrane)

Support Materials: Polypropylene Structure Components: Polypropylene Sealing Technology: Thermal Bonding

Dimensions

Nominal Length: 10, 20, 30 and 40 inch (25.4, 50.8, 76.2 and 101.6 cm)

Diameter: 2.7 inches (6.9 cm)

Nominal Pore Sizes

0.1, 0.2 µm

Typical Effective Filtration Area

5.8 ft2 (0.54 m2) per 10 inch

Maximum Operating Temperature

90°C (194°F) at 30 psi (2.1 bar) (Supported adapters are recommended for applications at elevated temperatures over 60°C)

Sterilization/Sanitization Methods

Chemical: peracetic acid, chlorinated alkaline products, bleach, sulfur dioxide, and hydrogen peroxide at typical sanitization concentrations and temperatures

Autoclave: 121°C (250°F) for 30 minutes up

to 50 cycles

In-line Steam: 121°C (250°F) for 60 minutes at 2 psi (0.14 bar) up to 50 cycles 142°C (288°F) for 60 minutes at 2 psi (0.14 bar) up to 25 cycles

Maximum Differential Forward Pressure

60 psi (4.1 bar) at ambient temperature

Maximum Differential Back Pressure

0.1 μm : 30 psi (2.1 bar) at ambient temperature 0.2 μm : 15 psi (1.0 bar) at ambient temperature

Maximum Continuous Pressure

Limited by housing

Recommended Integrity Tests Minimum Bubble Point:

0.1 µm: 28 psi (2.0 bar) - ethanol 0.2 µm: 49 psi (3.4 bar) - water

Diffusional Flow in Water:

Provided separately*

* For more information, please contact us.

Typical Water Flow Rate

0.1 µm: 0.2 gpm/psi/10 inch length (1.1 lpm/0.1 bar/25.4 cm length) 0.2 µm: 1.2 gpm/psi/10 inch length (6.6 lpm/0.1 bar/25.4 cm length)

Oxidizable Substances

Filtrate meets USP XXII requirements for purified water with < 1 L flush after autoclaving

Biosafety

All components meet USP Class VI-121°C
Plastics Tests, and are listed as being
acceptable for food contact according to the
Code of Federal Regulation, Title 21

Endotoxin Level

< 0.25 EU/ml utilizing Limulus Amoebocyte Lysate (LAL) test

Typical Non-Volatile Residue

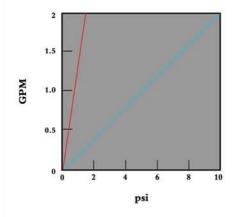
50 ppm per 10 inch

Bacterial Retention

Provided separately*

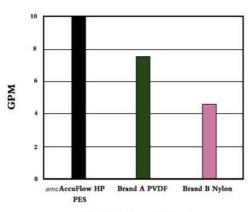
*For more information, please contact us.

Typical Water Flow Rates (10 inch length)





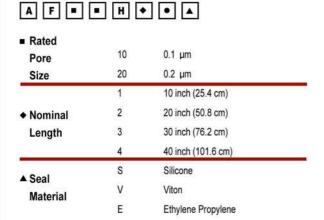
amcAccuFlow HP Water Flow Rates



Cartridge Type (0.2 µm)

P = 8 psi, 10 inch cartridge at ambient temperature

Cartridges Ordering Information



	D	SOE, Flat
	F	DOE, Gasket/Gasket 10 inch increments
	J	SOE, -222/Flat/SS*
	K	SOE, -222/Fin/SS*
 Cartridge 	М	SOE, -222/Flat
Configuration	Р	SOE, -222/Fin
	Q	SOE, -226/Fin
	R	SOE, -226/Fin/SS*
	٧	SOE, -226/Flat
	W	SOE, -226/Flat/SS*

^{*} SS indicates stainless steel supported adapter