amcOptiFlow

Cartridges-Fiberglass Depth Filters

amcOptiFlow cartridge filters contain nominally rated fiberglass media. Borosilicate fiberglass is ideal for filtration applications where the removal of fine particles is necessary to provide a crystal clear solution. amcOptiFlow cartridge filters are designed for low cost and long service in prefiltration of beverages and other food products.

amcOptiFlow cartridge filters are ideal for the protection of final 0.2, 0.45 or 0.65 µm membrane filters in wine and beer applications. They are used as final filters in less critical applications where clarity is an issue and high solid levels are present.

Available in four pore size ratings, amcOptiFlow uses a single layer of very efficient glass media. The remaining support materials are polypropylene. The product is assembled with fusion welding technology to avoid the use of adhesives or glues. Fusion welding helps reduce extractables that can affect the taste of the product being filtered.

amcOptiFlow cartridge manufactured using materials which are listed as being acceptable for food contact according to the Code of Federal Regulation, Title 21, or materials which are commonly found in food contact applications.

Performance Advantages

Thermally bonded construction

High dirt-holding capacity

Low operating costs through long service life

Materials of construction pass USP Class VI-121°C Plastics Tests for biosafety

Validated for steam sterilization at 140°C (284°F) for 60 minutes

Typical Applications

Protection of final 0.2, 0.45 and 0.65 µm membrane filters

Prefilter in make-up water

Haze control in distilled spirits

Yeast and particle control in wine, beer, and syrups

Removal of diatomaceous earth fines

Filling machines

Specifications

Materials of Construction
Filter Media: glass fiber with acrylic binder
Support Material: 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:
1, 3, 5 and 10 µm

Typical Effective Filtration Area
6.4 ft^2 (0.6 m^2) per 10 inch

Maximum Operating Temperature
88°C at 30 psi (2.1 bar)
(supported adapters are recommended for applications at elevated temperature over 55°C)

Sterilization/Sanitization Methods
Hot Water: 88℃ (190°F) at 5 psi (0.34 bar)
Autoclave: 121℃ (250°F) for 30 minutes up to 30 cycles
In-line Steam: 142℃ (288°F) for 60 minutes at 2 psi (0.14 bar) up to 20 cycles

Maximum Differential Pressure
60 psi (4.1 bar) at ambient temperature

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

Cartridges Ordering Information

O	F	■	■	F	◆	●	▲

■ Rated Pore Size	01	1 µm
	03	3 µm
	05	5 µm
	10	10 µm
◆ Nominal Length	1	10 inch (25.4 cm)
	2	20 inch (50.8 cm)
	3	30 inch (76.2 cm)
	4	40 inch (101.6 cm)
▲ Seal Material	S	Silicone
	V	Viton
	E	Ethylene Propylene

● Cartridge Configuration	D	SOE, Flat
	F	DOE, Gasket/Gasket 10 inch increments
	J	SOE, -222/Flat/SS*
	K	SOE, -222/Fin/SS*
	M	SOE, -222/Flat
	P	SOE, -222/Fin
	Q	SOE, -226/Fin
	R	SOE, -226/Fin/SS*
	V	SOE, -226/Flat
	W	SOE, -226/Flat/SS*

** SS indicates stainless steel supported adapter*