

## aspire® Omni-Clear CV Series

### Pleated Polyethersulfone Hydrophilic Membrane Cartridge



The Omni-Clear CV Series was developed for the filtration of process fluids that require a high degree of particle retention and/or a constant bacterial barrier for effective sterilization. Hydrophilic asymmetric polyethersulfone membrane ensures excellent flow rates, broad chemical compatibility, low protein binding, low extractability, high mechanical strength and temperature resistance in a variety of applications for the biopharmaceutical, microelectronics, chemical, food and beverage industries. The Omni-Clear CV Series meets USP Biological Reactivity Test, in vivo for class VI-121°C plastics.

### Benefits

- High surface area membrane offers excellent life and flux rates, while providing absolute-rated filtration.
- Absolute-rated membrane provides reliable, consistent and repeatable filtrate quality.
- Low pressure drops yield higher flow rates and reduced processing time.
- Non fiber-shedding Polypropylene support materials eliminate fiber migration.
- Pleat design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs.
- Thermally bonded construction without the use of adhesives or binders, resulting in lower extractables.
- Low hold-up volumes.
- High strength design allowing for extended use and multi autoclave cycles.

### Applications

- Liquid Clarification
- Chemical Filtration
- General-Use Water Filtration
- Deionized Water Systems

For more information,  
contact your aspire® representative at  
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# CLARCOR

Industrial Air

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## Pleated Polyethersulfone Hydrophilic Membrane Cartridge

### Materials of Construction

Filter Media	Polyethersulfone
Support Material	Polypropylene
Hardware	Polypropylene
Cage Core	Polypropylene
Internal Support Ring	Stainless Steel
Sealing	Thermal Bond
Seals	Buna-N, Fluorocarbon, EPDM, FEP Encapsulated Fluorocarbon, Silicone

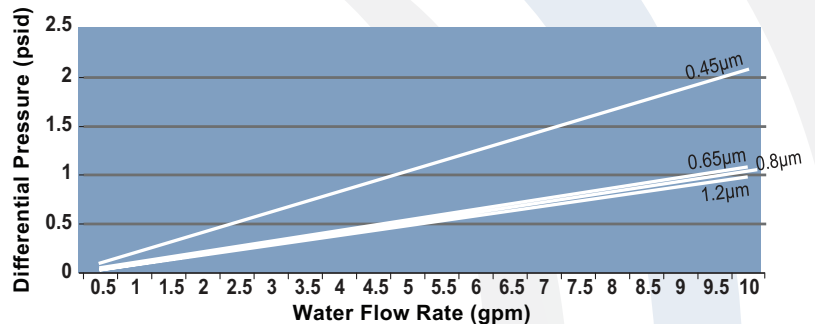
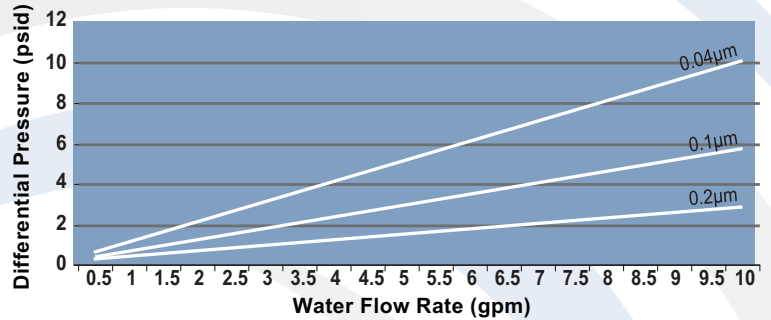
### Performance Specifications

Absolute Retention Rating	0.04µm, 0.1µm, 0.2µm, 0.45µm, 0.65µm, 0.8µm, 1.2µm
Differential Pressure Forward	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse	50 psid (3.4 bar)
Maximum Operating Temperature	180°F (82°C) Continuous Duty Polypropylene Hardware

Toxicity	Cartridge material meet USP Class VI and CFR 21 for food and beverage contact
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Sterilization	Cartridges can be sterilized via steam or Autoclave: 20 times at 275°F (135°C) Cartridges may be sanitized in place with common oxidizing agents. Contact factory for chemical compatibility.
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### Pressure Drop vs. Flow Rate



### Dimensions (nominal)

Outside Diameter	2.55" (6.5cm)
*Molded Cage	2.68" (6.8cm)
Lengths	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)

### Cartridge Ordering Information

Media	Micron Rating	Series	Cage Style	Nominal Length	Cartridge Style	Gasket or O-Ring Material	Utilization
S	002	CV		B	7	03	N
S = Polyethersulfone Membrane	004 = 0.04µm	S = Standard	Blank = Extruded	A = 10"	1 = DOE, 9 3/4"	01 = ERP	N = Non-Steam Sterilizable
	001 = 0.1µm		H = Molded	B = 20"	2 = DOE, 10"	03 = Silicone	S = Steam Sterilizable Steam Ring in Contact with Fluid
	002 = 0.2µm			C = 30"	3 = 222 O-Ring/Flat	04 = Nitrile	
	004 = 0.45µm			D = 40"	7 = 226 O-Ring/Fin	08 = Viton® *	
	006 = 0.65µm				7A = 222 O-Ring/Flat	09 = Teflon® *	
	008 = 0.8µm				8 = 222 O-Ring/Fin	15 = Expanded Teflon®	
	012 = 1.2µm					*Non FDA	

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