Description
The aspire Omni-Clear™ Series was developed for the filtration of process fluids that require a high degree of particle retention and/or 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™ Series meets USP Biological Reactivity Test, in vivo for class VI-121°C plastics. Sterilizable using industry recognized and accepted methods.

Benefits
- High surface area membrane offers excellent life and flux rates while providing absolute 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
- Maximum Pleat Design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per element
- All materials of construction are FDA compliant with CFR Title 21, Pharmaceutical grades are bio-safe in accordance with USP Class VI
- Thermally bonded construction without the use of adhesives or binders, resulting in lower extractables
- Low hold-up volumes
- Integrity tested (beverage grade only)
- High strength design allowing for extended use and multi-autoclave cycles

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

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ASPRE067 (10/2015)
aspire® Omni-Clear Series Pleated Filter Cartridge

**Ordering Information**

<table>
<thead>
<tr>
<th>Cartridge Media Type</th>
<th>Grade</th>
<th>Filtration Area</th>
<th>Series</th>
<th>Layers</th>
<th>Nominal Length</th>
<th>Cartridge Style</th>
<th>Gasket or O-Ring Material</th>
<th>Utilization</th>
</tr>
</thead>
<tbody>
<tr>
<td>S = Polyethersulfone Membrane</td>
<td>002</td>
<td>A</td>
<td>B</td>
<td>1</td>
<td>B = 10&quot;</td>
<td>1 = Single</td>
<td>01 = EPR</td>
<td>N = Non-Seam</td>
</tr>
<tr>
<td>S = Standard</td>
<td>040</td>
<td>0.04µm</td>
<td></td>
<td></td>
<td>A = 10&quot;</td>
<td>1 = Single</td>
<td>01 = EPR</td>
<td>N = Non-Seam</td>
</tr>
<tr>
<td>S = Standard</td>
<td>001</td>
<td>0.10µm</td>
<td></td>
<td></td>
<td>B = 20&quot;</td>
<td>2 = DOE, 10&quot;</td>
<td>03 = Silicone</td>
<td>Sterilizable</td>
</tr>
<tr>
<td>S = Standard</td>
<td>002</td>
<td>0.20µm</td>
<td></td>
<td></td>
<td>B = 20&quot;</td>
<td>2 = DOE, 10&quot;</td>
<td>03 = Silicone</td>
<td>Sterilizable</td>
</tr>
<tr>
<td>S = Standard</td>
<td>004</td>
<td>0.45µm</td>
<td></td>
<td></td>
<td>C = 30&quot;</td>
<td>3 = 226 O-Ring/ Flat</td>
<td>04 = Nitrile*</td>
<td>Steam Sterilizable</td>
</tr>
<tr>
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<td>006</td>
<td>0.65µm</td>
<td></td>
<td></td>
<td>D = 40&quot;</td>
<td>7 = 226 O-Ring/ Fin</td>
<td>08 = Viton*</td>
<td>Steam</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>7A = 226 O-Ring/ Flat</td>
<td>11 = PTFE/Viton</td>
<td>ring in contact with fluid</td>
</tr>
<tr>
<td>S = Standard</td>
<td>012</td>
<td>1.20µm</td>
<td></td>
<td></td>
<td></td>
<td>8 = 222 O-Ring/Fin</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Materials of Construction**

- **Filter Media:** Polyethersulfone Membrane
- **Support Material:** Polypropylene
- **End Caps:** Polypropylene
- **Steam Ring:** Stainless Steel
- **Cage/Core:** Polypropylene
- **Sealing:** Thermal Bond
- **Seals:** Buna N, Fluorocarbon, EPDM FEP Encapsulated Fluorocarbon, PTFE, Silicone

**Performance Specifications**

- **Retention Rating:** 0.04µm, 0.10µm, 0.20µm, 0.45µm, 0.65µm, 0.80µm, 1.20µm
- **Differential Pressure:**
  - 50 psid (5.5 bar) @ 75°F (24°C)
  - 40 psid (2.8 bar) @ 180°F (82°C)
- **Reverse:** 50 psid (5.5 bar) @ 75°F (24°C)
- **Maximum Operating Temperature:** 180°F (82°C) Continuous Duty
- **Sterilization:** Cartridge can be sterilized via steam or Autoclave: 20 times at 275°F (135°C) Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

**Dimensions (nominal) Outside Diameter**

- **Extruded Cage:** 2.7” (6.87cm)
- **Lengths:**
  - 10” (25.4cm), 20” (50.8cm),
  - 30” (76.2cm), 40” (102cm)
- **Effective Filtration Area:** 6.8ft² per 10" equivalent