Pentair\textsuperscript{\textregistered} Pentek\textsuperscript{\textregistered} PCF Series Filter Cartridges have been developed in response to the requirements for deionized water in many industries. They are manufactured using resin that has been subjected to additional post-production steps to minimize the total organic carbon (TOC) level.

These high-capacity, semi-conductor-grade resin cartridges are ideal for use in pharmaceutical and medical laboratories, cosmetics, and circuit board printing applications.

PCF Series Cartridges are available in three sizes, flow rates and capacities. They are convenient and cost-effective for many applications where low levels of total organic carbon (TOC) and total dissolved solids (TDS) are required.

**FEATURES/BENEFITS**

Designed for deionizing water up to 16 megohms
Three sizes and capacities

**SPECIFICATIONS**

Filter Media – Mixed bed DI resins  
Endcaps – Polypropylene  
Shell – Polypropylene  
Pre-Filter – Polypropylene  
Post-Filter – Polypropylene  

Gaskets – Buna-N  
Temperature Rating – 40–100°F (4.4–37.8°C)
### TYPICAL APPLICATIONS
- Circuit board printing
- Pharmaceutical use
- Steam and humidification
- Cosmetics
- Steam processors
- Humidification systems
- Recirculating/cooling towers
- Power generating equipment
- Medical/laboratory use
- Lasers
- Jet water sprayers
- Boiler make-up water

### PROPERTIES AND CHARACTERISTICS
- **Function Structure**
  - Cation: R-SO3-H+
  - Anion: AR-N(CH2)2(C2H2OH)+OH-

- **Physical Form**
  - Moist spherical bead

- **Ionic Form**
  - H/OH

- **Percent Conversion**
  - Hydrogen: 99% minimum
  - Hydroxide: 95% minimum

### SPECIFICATIONS AND PERFORMANCE

<table>
<thead>
<tr>
<th>MODEL #</th>
<th>PART #</th>
<th>MAXIMUM DIMENSIONS</th>
<th>CAPACITY GRAINS (mg TDS as CaCO3)</th>
<th>INITIAL ∆P (PSI) &amp; FLOW RATE (GPM)</th>
<th>SUGGESTED FLOW RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCF1-10MB</td>
<td>155273-43</td>
<td>2.67” x 9.75” (68 mm x 248 mm)</td>
<td>270 (17,500)</td>
<td>1.5 psi @ 0.25 gpm (0.10 bar @ 0.95 Lpm)</td>
<td>0.25 gpm (0.95 Lpm)</td>
</tr>
<tr>
<td>PCF1-20MB</td>
<td>155274-43</td>
<td>2.67” x 20” (68 mm x 508 mm)</td>
<td>600 (38,800)</td>
<td>3.4 psi @ 0.50 gpm (0.23 bar @ Lpm)</td>
<td>0.50 gpm (1.9 Lpm)</td>
</tr>
<tr>
<td>BBF1-20MB</td>
<td>155281-43</td>
<td>4.50” x 20” (114 mm x 508 mm)</td>
<td>1,850 (120,000)</td>
<td>1.1 psi @ 1.25 gpm (0.08 bar @ 4.7 Lpm)</td>
<td>1.25 gpm (4.7 Lpm)</td>
</tr>
</tbody>
</table>

**NOTES:** The above resin data is based on information by Pentair Residential Filtration. This data does not imply any warranty or performance guarantee. We recommend that the user determine performance by testing on their own processing equipment. We assume no liability or responsibility for patent infringement resulting from the use of this product.

**CAUTION:** Do not use cartridges on equipment that has an electric conductivity water level indicator.

**WARNING:** Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.