



## PCF SERIES MIXED BED DEIONIZATION CARTRIDGES

- Designed for deionizing water up to 16 megohms
- All materials and construction are FDA-compliant
- Three sizes and capacities

PCF Series cartridges have been developed in response to the requirements for deionized water in many industries.

They are manufactured using an FDA-compliant 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.

### 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



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FILTRATION

Pure Quality.™

# PCF SERIES

## Mixed Bed Deionization Cartridges



### Typical Cartridge Properties and Characteristics

#### FUNCTION STRUCTURE:

Cation R-SO<sub>3</sub>-H+  
Anion AR-N(CH<sub>2</sub>)<sub>2</sub>(C<sub>2</sub>H<sub>4</sub>OH)+OH-

#### PHYSICAL FORM:

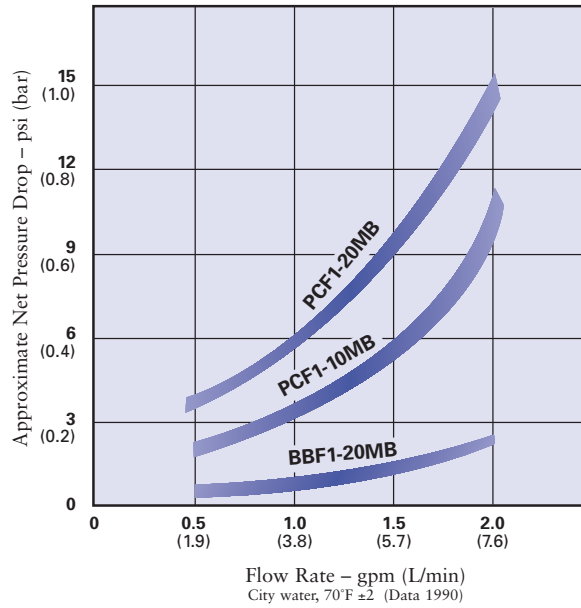
Moist spherical bead

#### IONIC FORM:

H/OH

#### PERCENT CONVERSION:

Hydrogen 95% minimum  
Hydroxide 90% minimum



### Cartridge Specifications and Performance Data

Model	Maximum Dimensions	Capacity Grains (mg TDS as CaCO <sub>3</sub> )	Initial ΔP (psi) @ Flow Rate (gpm)	Suggested Flow Rate
PCF1-10MB	2-2/3" x 9-3/4" (68 mm x 248 mm)	270 (17,500)	1.5 psi @ 0.25 gpm (0.10 bar @ .95 L/min)	0.25 gpm (0.95 L/min)
PCF1-20MB	2-2/3" x 20" (68 mm x 508 mm)	600 (38,800)	3.4 psi @ 0.50 gpm (0.23 bar @ 1.9 L/min)	0.50 gpm (1.9 L/min)
BBF1-20MB	4-1/2" x 20" (114 x 508 mm)	1,850 (120,000)	1.10 psi @ 1.25 gpm (0.076 bar @ 4.7 L/min)	1.25 gpm (4.7 L/min)

### Materials of Construction

• Filter Media	Mixed bed DI resins	• Post-filter	Polypropylene
• End Caps	Polypropylene	• Gaskets	Buna-N
• Shell	Polypropylene	• Temperature Rating	40°F to 100°F (4.4°C to 37.8°C)
• Pre-filter	Polypropylene		

**WARNING:** For drinking water applications, do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the unit.  
**NOTE:** The above resin data is based on information obtained by Pentair Water Treatment. This data does not imply any warranty or performance guarantee. We recommend that the user determine performance by testing on his 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.



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