



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 filter 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



PCF SERIES

Mixed Bed Deionization Cartridges



Typical Cartridge Properties and Characteristics

FUNCTION STRUCTURE:

Cation R-SO₃-H⁺
Anion AR-N(CH₂)₂(C₂H₄OH)+OH⁻

PHYSICAL FORM:

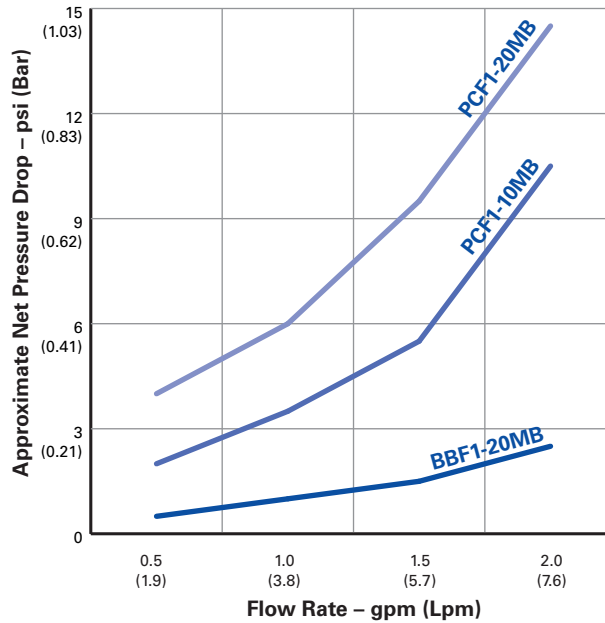
Moist spherical bead

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 ₃)	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 @ 0.95 Lpm)	0.25 gpm (0.95 Lpm)
PCF1-20MB	2 ² / ₃ " x 20" (68 mm x 508 mm)	600 (38,800)	3.4 psi @ 0.50 gpm (0.23 bar @ Lpm)	0.50 gpm (1.9 Lpm)
BBF1-20MB	4 ¹ / ₂ " x 20" (114 mm x 508 mm)	1850 (120,000)	1.10 psi @ 1.25 gpm (0.076 bar @ 4.7 Lpm)	1.25 gpm (4.7 Lpm)

Materials of Construction

Filter Media	Mixed Bed DI Resins
End Caps	Polypropylene
Shell	Polypropylene
Pre-Filter	Polypropylene
Post-Filter	Polypropylene
Gaskets	Buna-N
Temperature Rating	40–100°F (4.4–37.8°C)

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 Filtration, Inc. 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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