



PCF1-10MB



PCF1-20MB



BBF1-20MB



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
- Breeding tanks
- 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

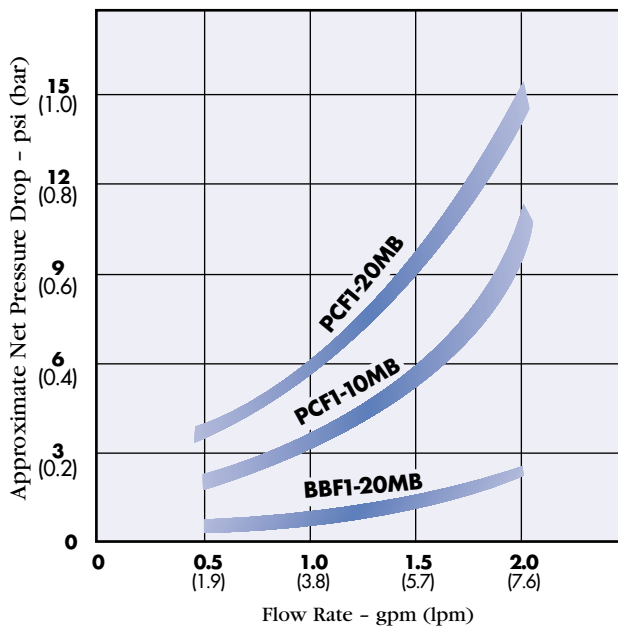
IONIC FORM:

H/OH

PERCENT CONVERSION:

Hydrogen 95% minimum

Hydroxide 90% minimum



City water, 70°F ±2 (Data 1990)

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 @ .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 @ 1.9 lpm)	0.50 gpm (1.9 lpm)
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 lpm)	1.25 gpm (4.7 lpm)

Materials of Construction

- **Filter Media** Mixed bed DI resins
- **End Caps** Polypropylene
- **Shell** Polypropylene
- **Pre-filter** Polyester
- **Post-filter** Polypropylene
- **Gaskets** Buna-N
- **Temperature Rating** 40°F to 100°F (4.4°C to 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 USFilter, Plymouth Products Division. These data are believed to be reliable but do 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. The DI Resin cartridges are being designed for the following performance parameters.

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

USFilter
Plymouth Products

502 Indiana Avenue • Sheboygan, WI 53081
USA/Canada: 800-645-0267 phone • 888-203-7361 fax
International: 920-451-9322 phone • 920-457-2417 fax

www.plymouthwater.com

Printed in U.S.A. 09/01 310087