



PCF1-10MB



PCF SERIES
CARTRIDGES

BBF1-
20MB

PCF1-20MB

PCF SERIES MIXED BED DEIONIZATION CARTRIDGES

Designed for deionizing water at 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

USFilter
Plymouth Products

Profinor as

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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:

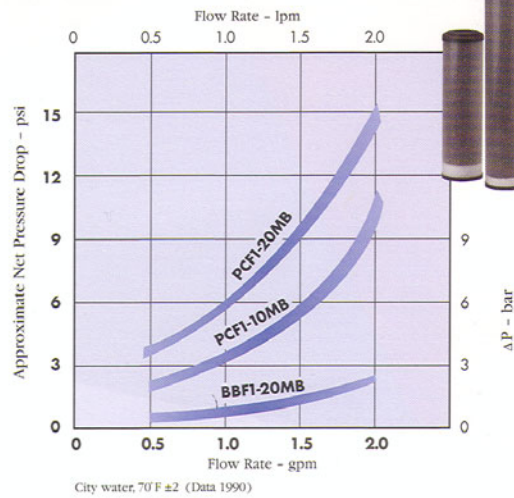
Moist spherical bead

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)	450 (29,250)	1.5 psi @ 0.25 gpm (.95 lpm)	0.25 gpm (.95 lpm)
PCF1-20MB	2-2/3" x 20" (68 mm x 511 mm)	1,050 (58,250)	3.4 psi @ 0.50 gpm (1.9 lpm)	0.50 gpm (1.9 lpm)
BBF1-20MB	4-1/2" x 20" (114 x 511 mm)	3,100 (201,500)	1.10 psi @ 1.25 gpm (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 125° F (4.4° C to 52° 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.

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