



## PENTEK PCF SERIES MIXED BED DEIONIZATION CARTRIDGES

DESIGNED TO MEET THE REQUIREMENTS FOR DEIONIZED WATER IN MANY INDUSTRIES



**Pentair<sup>+</sup> Pentek<sup>+</sup> 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-SO<sub>3</sub>-H<sup>+</sup>

Anion – AR-N(CH<sub>2</sub>)<sub>2</sub>(C<sub>2</sub>H<sub>2</sub>OH)+OH<sup>-</sup>

### Physical Form

Moist spherical bead

### Ionic Form

H/OH

### Percent Conversion

Hydrogen – 99% minimum

Hydroxide – 95% minimum

## SPECIFICATIONS AND PERFORMANCE

MODEL #	PART #	MAXIMUM DIMENSIONS	CAPACITY GRAINS (mg TDS as CaCO <sub>3</sub> )	INITIAL ΔP (PSI) @ FLOW RATE (GPM)	SUGGESTED FLOW RATE
PCF1-10MB	155273-43	2.67" x 9.75" (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	155274-43	2.67" 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	155281-43	4.50" x 20" (114 mm x 508 mm)	1,850 (120,000)	1.1 psi @ 1.25 gpm (0.08 bar @ 4.7 Lpm)	1.25 gpm (4.7 Lpm)

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.