

PENTEK® PCF SERIES MIXED BED DEIONIZATION CARTRIDGES

DESIGNED TO MEET THE REQUIREMENTS FOR DEIONIZED WATER IN MANY INDUSTRIES



Pentair® Pentek® 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-SO₃-H⁺

Anion – AR-N(CH₂)₂(C₂H₂OH)+OH⁻

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 ₃) | 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.



FILTRATION & PROCESS

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