

EPIC™ II

High Performance Melt Blown Cartridges for Critical Process Applications



Description

EPIC II Series filter cartridges deliver high efficiency particle removal and consistent filtration of fluids in a wide range of applications. The proprietary dual zone melt blowing process used to manufacture the filter cartridge allows Purolator to optimize the filtration properties of the element while maintaining very robust mechanical properties. This control results in a filter with exceptional service life that can be employed in the most demanding applications.

The 100% polypropylene construction provides excellent chemical resistance to bases, acids, salts and many organic solvents in a broad range of processes. All components used are FDA listed materials of construction assuring they are safe for food and beverage contact. EPIC II Series cartridges are available in a wide range of configurations to fit most commercially available filter housings.

Benefits

- Precision engineered filter cartridge constructed of micro-denier melt blown fibers provides superior particle retention and long on-stream life.
- Dual zone graded density filtration media enhances contaminant holding capacity resulting in improved filtration performance.
- High strength polypropylene center core allows for maximum service life, up to 35 psid before change out.
- 100% polypropylene materials of construction provide wide chemical compatibility in most applications with no leachables or extractables.
- Highly automated manufacturing process assures consistent filter performance and repeatable results over time.
- All materials are FDA listed for food and beverage contact, are NSF tested and certified, and meet USP- Class VI criteria for plastics.

Applications

- Process Water
- RO Pre-Pretreatment
- Food and Beverage Processing
- High Purity Chemicals
- Municipal & Potable Water Systems
- Metal Finishing / Plating Solutions
- Cooling Water
- Pulp and Paper Water Applications
- Paints and Coatings

Performance Specifications

Retention Ratings (nominal)	1, 3, 5, 10, 20, 30, 50, 75, 100 µm
Maximum Forward Differential Pressure	15 psid (1 bar) @ 180° F (82° C) 30 psid (2 bar) @ 150° F (66° C) 60 psid (4 bar) @ 75° F (24° C)
Recommended Change-out Pressure	35 psid (2.6 bar)
Biosafety	All components meet FDA requirements All components meet the requirements of USP Biological Test for Plastics Class VI-121° All products NSF tested and certified

Materials of Construction/Dimensions

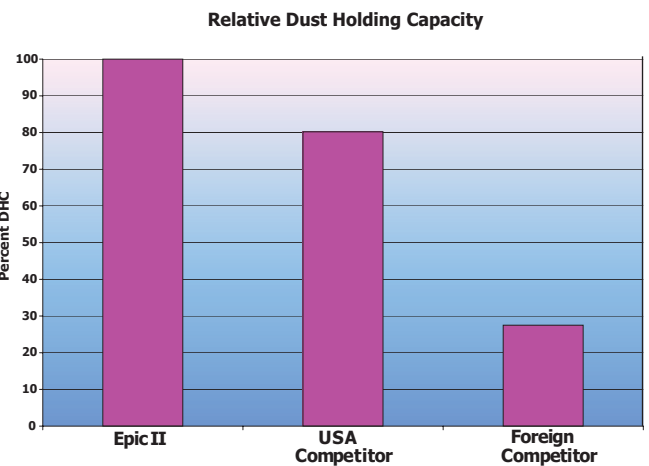
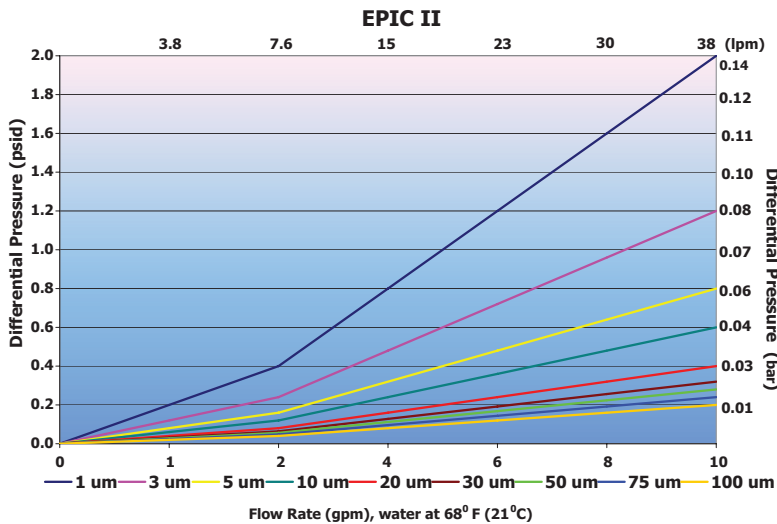
Outside Diameter (nominal)	2.5" (6.4 cm)
Inside Diameter (nominal)	1.08" (2.7 cm)
Lengths (nominal)	10", 20", 30", 40" (25.4, 50.8, 76.2, 102 cm)
Media	Micro-denier polypropylene fibers
Center Core (standard)	Polypropylene
End Caps (optional)	Polypropylene
Gaskets/O-Rings	Silicone, Buna-N, EPDM, Viton®*, Polyethylene**

*Viton® is a registered trademark of E.I. duPont de Nemours and Company

** Available on double open ended cartridges only

EPIC II and The Clear Advantage are trademarks of Clarcor, Inc.

Flow Rates vs Differential Pressure



Cartridge Ordering Information

Cartridge Series	Retention Rating	Nominal Length (inches)	Center Core	Cartridge Configuration	Gasket or O-Ring
EP II -	5-*	30		F	S
EP II = EPIC II	1, 3, 5, 10, 20, 30, 50, 75, 100 µm	9.75, 9.87, 10, 19.5, 19.75, 20, 29, 29.25, 30, 39, 39.5, 40	No Symbol = Polypropylene	No Symbol = DOE G = DOE with Polypropylene D = DOE with Gaskets X = DOE with 1" Extended Core F = 222 O-Ring/Flat S = 222 O-Ring/Spear F7 = 226 O-Ring/Flat S7 = 222 O-Ring/Spear K = Self Sealing Spring - Poly R = Self Sealing Spring - SS	S = Silicone V = Viton B = Buna-N E = EPDM

* Note: Use a - (dash) between the Retention Rating and the Nominal Length when ordering.

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