

# Z.Plex\* EDR.Z Depth Filter

## FACT SHEET

WATER TECHNOLOGIES



### For Electrodialysis Reversal (EDR) Pre-Filtration



### Features and Benefits

- Engineered specifically for protecting EDR membrane components; designed for use in Veolia's EDR and most other EDR systems.
- Minimal potential for filter media release due to unique construction with a rigid high-strength polypropylene core
- Greater contaminant capacity compared to filters with equivalent removal efficiency
- Melt-blown media traps particles throughout entire filter of graded density
- Bonded interior and exterior hinders media migration and prevents premature surface blinding
- Provides lower total cost of filtration operations

### Applications

- EDR pre-filtration for Veolia EDR systems and universal systems

### Specifications

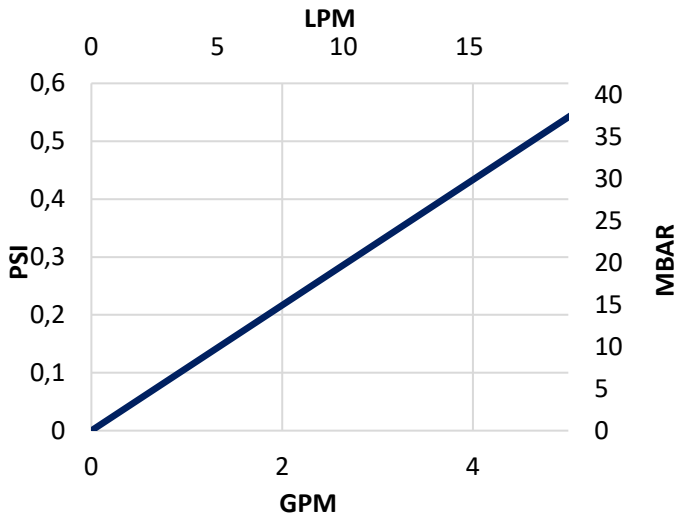
Table 1: Specifications and performance information

<b>Ratings</b>	5, 10 microns (nominal)
<b>Inner Diameter</b>	1.1 in (2.5 cm)
<b>Outer Diameter</b>	2.5 in (6.4 cm)
<b>Lengths</b>	30 in (76.2 cm) 40 in (101.6 cm)
<b>Materials of Construction</b>	
Filter Media	Polypropylene
Adapters	N/A, open ended only
<b>Performance Conditions</b>	
Flow:	Exterior to interior
Maximum pressure drop:	60 psid (4.1 bar) @ 77°F (25°C) 35 psid (2.4 bar) @ 120°F (49°C)
Recommended change-out pressure drop:	35 psid (2.4 bar) @ 77°F (25°C)

### Efficiency Information

Table 2: Removal efficiency based on a modified ASTM 795 test procedure

Micron Rating	Removal Rating ( $\mu\text{m}$ ) at Various Efficiencies		
	90.0%	99.0%	99.9%
5 $\mu\text{m}$	<i>Efficiency of nominal filters varies by application. See note for information on nominal filter efficiency<sup>1</sup></i>		
10 $\mu\text{m}$			



Graph 1: Z.Plex EDR.Z Depth Filter clean water flow rate based on a 10 in length filter. One line for both micron ratings

## Quality

Veolia's EDR.Z filters are manufactured under a quality management system. Each filter case has a packaging code that enables tracing of the filters to a production date and shift.

## Filter Media Certifications

- U.S. FDA 21CFR 177.1520
- NSF 61 Certification
- ISO 9001:2015 certified processes

Veolia depth cartridge filters are designed and manufactured for resistance to a wide range of chemical solutions. Conditions will vary with each application and users should carefully verify chemical compatibility. Please contact your Veolia representative for more information.

## Ordering Information

Replace the numbers with your desired values from each column.

Example: EDR.Z10-40



Table 3: Ordering Information

Type	1	2
	Micron Rating (Nominal)	Cartridge Length
EDR.Z	05 = 5 µm	30 in (76.2 cm)
	10 = 10 µm	39 in (99.1 cm)
		40 in (101.6 cm)

<sup>1</sup>Absolute-rated filters have been designed and tested to reject at least 99% of particles of the listed micron size. Nominal-rated filters have a wider distribution of pore sizes and therefore a wider distribution of rejected particle sizes. The nominal rating is primarily used to compare efficiencies across a filter family and between filter manufacturers. Efficiency is dependent on particle shape, size, composition, application, and testing protocol.