

High Flow ROsave.Z*

Z.Plex* technology depth filter for increased flow reverse osmosis pre-filtration



features and benefits

- Engineered specifically for reverse osmosis pre-filtration in a large diameter format
- True depth media filter design
 - Graded density retains particles throughout the full diameter of the filter
 - Quicker upset recovery and less surface binding
 - Outperforms pleated filters for RO applications
- Easier and less frequent change-outs than conventional depth filters
- Lower total cost of filtration operations
- High feed flowrate per cartridge
- Very low flow resistance
- Superior SDI reduction
- Compatible with Suez RO Equipment (PRO, PRO Flex)

applications

- RO pre-filtration for SUEZ RO Systems and universal equipment
- Seawater filtration
- Enhanced oil recovery

specifications

Table 1: Specifications and performance information

Ratings	1, 5 microns (nominal)	
Inner Diameter	40 in length	1.6 in (4.1 cm)
	60 in length	3.1 in (7.9 cm)
Outer Diameter	6.5 in (16.5 cm)	
Lengths	40 in (101.6 cm)	
	60 in (152.4 cm)	
Materials of Construction		
	Filter Media	Polypropylene
	Adapters	Polypropylene
	Elastomer	EPDM, Silcone
Performance Conditions		
Maximum pressure drop:		
	35 psid (2.4 bar) @ 77°F (25°C)	
	25 psid (1.7 bar) @ 140°F (60°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 (µm) at various efficiencies		
	90.0%	99.0%	99.9%
1 µm	<i>Efficiency of nominal filters varies by application. See note for information on nominal filter efficiency¹</i>		
5 µm			

Find a contact near you by visiting www.suezwatertechnologies.com and clicking on "Contact Us."

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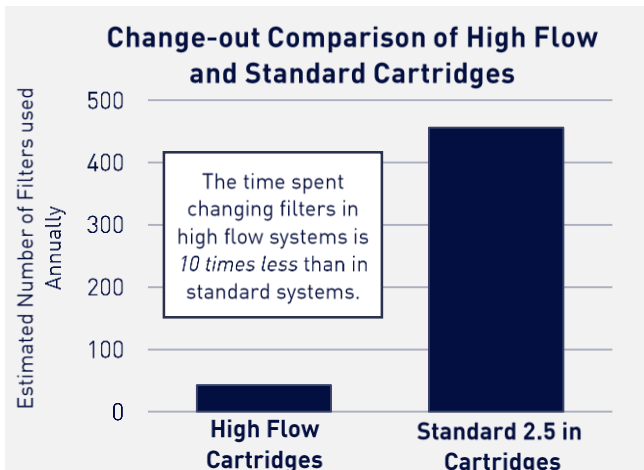
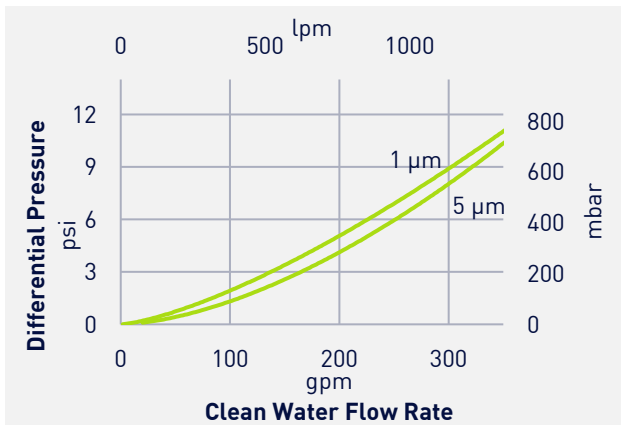
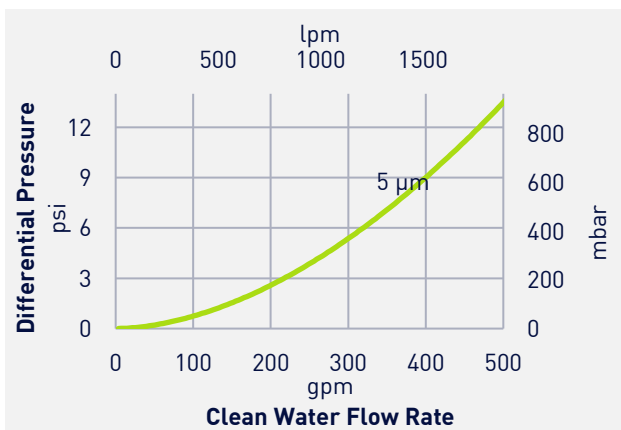


Figure 1: High flow filter systems require less frequent change-outs and have fewer cartridges to handle at each change-out. Calculations based on a typical 350 gpm configuration.



Graph 1: High Flow ROsave.Z clean water flow rate based on a 40 in length filter



Graph 1: High Flow ROsave.Z clean water flow rate based on a 60 in length filter

quality

High Flow ROsave.Z filters are manufactured under a quality management system that has been certified to meet ISO 9001 standards. Each filter is assigned a lot code to ensure traceability of the data and materials used in the manufacturing process.

certifications

- U.S. FDA 21CFR 177.1520 food contact requirements
- Article 3 of the EU Framework Regulation No. 1935/2004/EC safety requirements
- EU Plastics Regulation No. 10/2011 (may be used as intended in all compliant EU Member states)
- USP class VI-121°C Plastics criteria
- NSF 61 criteria
- ISO 9001 criteria

SUEZ filter cartridges 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 SUEZ representative for more information.

ordering information

Replace the numbers with your desired values from each column. Columns 3, 4, and 5 are optional depending on the desired configuration.

Example: HF.RO.Zs 05-40-FSS



Table 3: Ordering information

	1	2	3	4	5
Type	Micron Rating (nominal)	Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material
HF.RO.Zs	01 = 1 µm 05 = 5 µm	40 in (101.6 cm) 60 in (152.4 cm)	F = 226 O-Ring (40 in only) T = 338 O-Ring (60 in only) 	S = Closed End with ergonomically designed handle 	E = EPDM S = Silicone

¹Absolute-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.

