

FR Series

Fouling Resistant RO Membrane Elements

Description

FR Series Fouling Resistant RO Membrane Elements adopt a special process to treat the membrane surface, which changes the charge and smoothness of RO membrane surface, increases the hydrophilicity of the membrane surface, effectively reduces the fouling of colloids, organic matter and other dirt, and greatly improves the cleaning and recovery performance of the RO membrane. At the same time, a 34mil wide inlet flow channel design is adopted to further strengthen the anti-pollution ability of membrane element and better cleanability. FR Series fouling resistant RO elements have the characteristics of high desalination rate and large flux. The RO membrane elements are suitable for desalination of surface water, groundwater, tap water and municipal water with a salt content of less than 10,000ppm.



Features

- The salt removal rate of industrial fouling resistant RO elements can reach 99.5%
- The RO membrane elements can be used to treat sewage with a TDS of 2000-4000
- Long service life and economic cost, saving the cost of reverse osmosis water system
- The RO membrane elements have strong fouling resistant ability and better cleanability
- Industrial RO membranes are suitable for salt content of water sources below 10,000ppm
- Fouling resistant RO elements have the characteristics of high desalination rate and large flux

Specification

Model	FR-4040	FR-8040
Effective Membrane Area ft ² (m ²)	90 (8.4)	365 (33.9)
Average Water Production GPD (m ³ /d)	2200 (8.3)	9600 (36.3)
Stabilized Desalination Rate %	99.5	99.5
Minimum Desalination Rate %	99.3	99.3
Membrane Media	Aromatic Polyamide	
Construction	Spiral Wound	
Test Pressure	225psi (1.55Mpa)	
Test Water Temperature	25 °C	
PH Value of Test Solution	7.5	
Test Solution Concentration (NaCl)	2000ppm	
Recovery Rate of Single RO Element	15%	

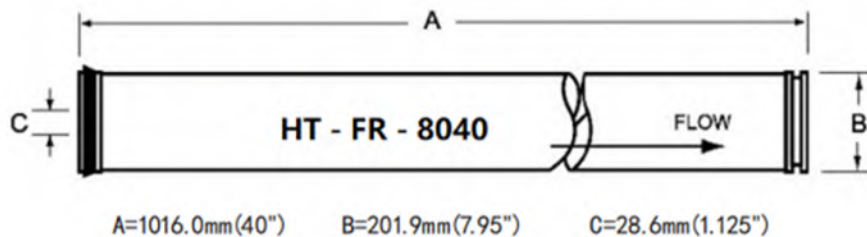
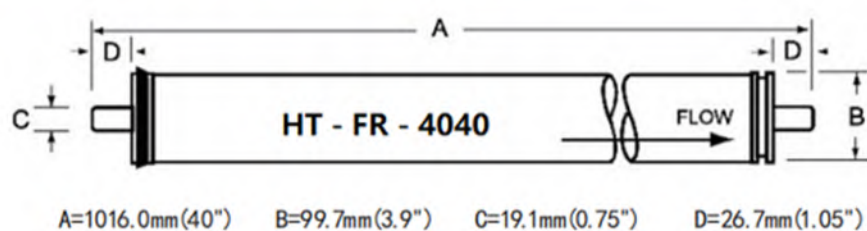
Application

- Boiler make-up water
- Organic sewage treatment
- Industrial wastewater reuse
- High TDS sewage treatment
- Surface wastewater treatment
- Micro-polluted water treatment

Operation Data

Production floating range	±15%
Maximum feed water temperature	45°C
Maximum feed water SDI15	5
Maximum influent turbidity NTU	1
Maximum residual chlorine concentration	0.1mg/L
Maximum Operating pressure	600psi (4.14Mpa)
Maximum pressure drop of single membrane element	15psi (0.1Mpa)
PH value range of feed water during continuous operation	3~10
PH value range of feed water during chemical cleaning	2~12
Maximum feed water flux	Model: 4040 - 16gpm (3.6m ³ /h)
	Model: 8040 - 75gpm (17m ³ /h)

Tech Support



Order Information

Hongtek	FR Series Fouling Resistant RO Elements	Membrane Element Diameter	Length of Membrane Element
HT	FR	40 = 4"	40 = 40"
		80 = 8"	

For example:

HT-FR-4040

Hongtek - FR Series Fouling Resistant RO Elements - Diameter: 4" - Length: 40"

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