



HOR Series

High Oxidation Resistant RO Membrane Elements

Description

HOR Series High Oxidation Resistant RO Membrane Element is aromatic polyamide composite membrane elements developed by Hongtek for the desalination of brackish water (salt content less than 10,000ppm) containing micro-oxidizing substances. The oxidation resistant RO membrane makes up for shortcomings of ordinary polyamide reverse osmosis membranes that are not resistant to oxidation, and adopts a special process to enhance oxidation resistance of membrane elements. Oxidation resistant RO membrane can withstand the impact of a certain amount of oxidizing substances. The industrial RO elements have the characteristics of high desalination rate and large flux. The reverse osmosis elements can be widely used in various Industrial water treatment RO systems.



Features

- Oxidation resistant RO membrane can withstand the impact of a certain amount of oxidizing substances
- The industrial RO elements have the characteristics of high desalination rate, large flux and long working life
- The membrane adopts a special synthesis process to enhance the oxidation resistance of the RO membrane elements
- Allows the direct on-line dosing of fungicides into the membrane elements, so that the RO host can be completely sterilized
- Suitable for water treatment with microbial contamination and oxidizing substances with a salt content of less than 10,000 ppm

Specification

Model	HOR-4040	HOR-8040
Effective Membrane Area ft ² (m ²)	90 (8.4)	365 (33.9)
Average Water Production GPD (m ³ /d)	2200 (8.3)	9000 (34.1)
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%	

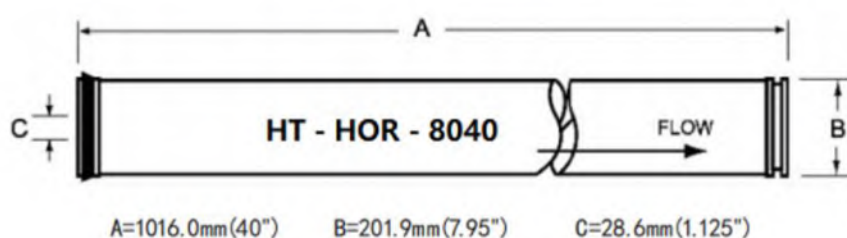
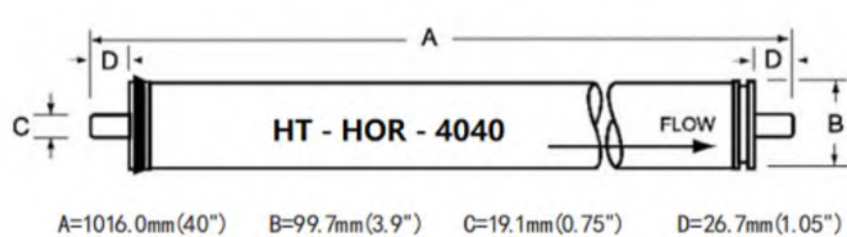
Application

- Water reuse
- Surface water reuse
- Municipal water supply
- Power plant boiler make-up water
- Food and beverage industry water
- Electroplating wastewater treatment
- Textile printing and dyeing 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	0.5ppm
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	HOR Series RO Membrane Elements	Membrane Element Diameter	Length of Membrane Element
HT	HOR	40 = 4"	40 = 40"
		80 = 8"	

For example:

HT-HOR-4040

Hongtek - HOR Series RO Membrane Elements - Diameter: 4" - Length: 40"

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