

Spiral Wound Reverse Osmosis Membrane



HYDRONANO Industrial RO membrane 8040 Spiral Wound element is developed for treatment of brackish water. It has the characteristics of low pressure in operation, high flow and excellent rejection performance in salt rejection. It is especially suitable for the preparation of high purity water in Food & Beverage, Pharmaceutical, Electronics and Power industry etc. Reverse osmosis is one of the most advanced, energy-saving and environmentally friendly desalination methods, and has become a mainstream pre-desalination process.

Features

- ◆ High salt rejection rate
- ◆ High permeate flow rate
- ◆ High fouling resistance
- ◆ Wide chemical compatibility
- ◆ Compatible with Filmtec, Hydranautics brands

Application

- ◆ Ultra Pure Water
- ◆ Electronic
- ◆ Chemical solvents
- ◆ Drinking water treatment
- ◆ Cooling water

Specification

Model		HNBW4040	HNBW8040
Specification	Membrane material	Composite polyamide	
	Membrane area(m ²)	8	37
	Salt rejection rate	99.6%	99.6%
	Permeate rate(GPD)	2,300	10,500
	Length(mm)	1,016	1,016
	Diameter(mm)	100	200
Operation parameter	Max. Working pressure	600 psi(4.1Mpa)	
	Max.Feed temperature	45°C	
	Max feed flow(m ³ /h)	3	20
	pH range	2~11	
	Max pressure drop	15 psi(0.1Mpa)	
	Residual chlorine(mg/L)	<0.1	
	Max. TDS value(mg/L)	5,000	
	Turbidity(NTU)	<1	
Test condition	Concentration of solution(NaCl)	2,000 mg/L	
	Temperature(°C)	25	
	pH value	7.5 - 8	
	Operation pressure psi	225	
	Recovery rate	15%	

Spiral Wound Reverse Osmosis Membrane



HYDRONANO Industrial LPRO membrane element is developed for energy saving applications with low operation pressure. It has the characteristics of high flow and excellent rejection performance in salt rejection. It is especially suitable for the preparation of ultra pure water in Pharmaceutical, Electronics and Power industry etc. DeltaPure LPRO8040 has large filtration area of 37m² with 99.5% stable salt rejection rate.

Features

- ◆ High salt rejection rate
- ◆ High permeate flow rate
- ◆ Low operation pressure
- ◆ Wide chemical compatibility
- ◆ Compatible with Filmtec, Hydranautics brands

Application

- ◆ Ultra Pure Water
- ◆ Electronic
- ◆ Chemical solvents
- ◆ Drinking water treatment
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HYDRONANO

Specification

Model		HNLP4040	HNLP8040
Specification	Membrane material	Composite polyamide	
	Membrane area(m ²)	8	37
	Salt rejection rate	99.5%	99.5%
	Permeate rate(GPD)	2,400	11,000
	Length(mm)	1,016	1,016
	Diameter(mm)	100	200
Operation parameter	Max. Working pressure	600 psi(4.1Mpa)	
	Max.Feed temperature	40°C	
	Max feed flow(m ³ /h)	3	16
	pH range	2~10	2~10
	Max pressure drop	15 psi(0.1Mpa)	
	Residual chlorine(mg/L)	<0.1	
	Max. TDS value(mg/L)	2,000	
	Turbidity(NTU)	<1	
Test condition	Concentration of solution(NaCl)	2,000 mg/L	
	Temperature(°C)	25	
	pH value	7.5 - 8	
	Operation pressure psi	150	
	Recovery rate	15%	