

ZERO-UHP120 Ultra-high Pressure

Ultra-high pressure reverse osmosis membrane element. The membrane product is developed for TDS 35000-70000 ppm brine concentration with a maximum operating pressure up to 120 bar, suitable for concentration and reduction of high salt waste water discharge.



The Maximum Operating Pressure is 120 bar The Highest Concentration of Nacl is 100 g/L



Enhanced Component Structure Stable Operation in High Pressure Environment **Product Features**

Applications

- √ Extreme Concentration and Reduction Stage of Zero Liquid Discharge Technology
- √ Suitable for TDS 35-70 g/L of Feed Water



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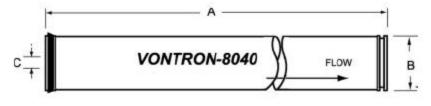
VONTRON ZERO-UHP120 Membrane Element

Brief Introduction

ZERO-UHP 120 is a series of ultra-high pressure reverse osmosis membrane element. The membrane product is developed for TDS 35000-70000 ppm brine concentration with a maximum operating pressure up to 120 bar, suitable for concentration and reduction of high salt waste water discharge.

Model	Ž.	Active Membrane Area ft ² (m ²)	Permeate Flow GPD(m ³ /d)	Stable Rejection %	Feed Spacer Thickness mil
ZERO-UH	P120	330(30.7)	7400(28.0)	99.7	28
	Open	ating pressure 800psi (5.52	MPa)		
Testing Position	Temperature at 25°C				
	Tested at 32000mg/L NaCl solution				
	pH 8.0				
	Recovery rate at 8%				
	Maximum operating pressure			1740psi (12.0MPa)	
	Maxi	mum feedwater flow		75gpm (17m	3/h)
Operating	Maxi	mum feedwater temperatu	45°C		
	Maxi	mum feedwater flow SD	5		
Limit &	Allov	Allowed pH range for feedwater in operation		3~10	
Conditions	Allov	Allowed pH range for chemical cleaning			
	Maxi	num concentration of free	<0.1 mg/L		
	Maxi	mum pressure drop per ele	15psi (0.1MPa)		

Size of Membrane Element: 1.0 inch=25.4 mm



A/mm(inch)	B/mm(inch)	C/mm(inch)	
1016 (40)	201 (7.9)	29 (1.125)	

Notice:

1. All data and information provided in this manual have been obtained from long-term



experiment by VONTRON. We confirm the effective and accuracy of the data. VONTRON assumes no liability for any aftermath caused by user's failure in abiding by the conditions specified in this manual in use or maintenance of membrane products. It is strongly recommended that the user shall strictly abide the designed use and maintenance requirements and keep relevant records.

- The permeate value listed in the table is the average value. The permeate flow of single membrane element is tolerance not exceeding ±20% of the nominal value.
- 3. All wet-type membrane elements have been strictly tested before leaving the factory, and have been treated with 1.0% sodium hydrogen sulfite (10% glycerin antifreeze required in winter) for storage purpose, then sealed with plastic bag in vacuum, and further packed in carton boxes.
- 4. The membrane used should remain wet after initial wetting; In long term suspension, to prevent the breeding of microbes, soak the membrane elements with protective solution is highly recommended, the solution (prepared with RO filtered water) containing 1.0% sodium hydrogen sulfite (foodstuff-purpose).
- Operate low pressure flushing for 15-25 minutes of first use, high pressure flushing for 60-90
 minutes when first use (Permeate volume no less than 50% of designed volume). Discard all the
 permeate and condensed water produced during the first one hour after system start-up.
- 6. During storage time and operation period, it is strictly prohibited to add any chemical medicament that may be harmful to membrane elements. In case of any violation in adding chemical medicament, VONTRON assumes no liability for any damages incurred.
- Along with technical development and product renovation, all information will be subject to modification without prior notification. Please keep notice the website of VONTRON for any updates of the product.