

VONTRON LP400-LD Membrane Element

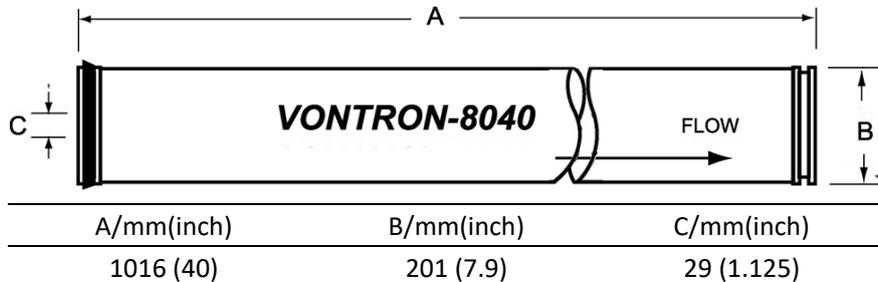
Brief Introduction

LP400-LD membrane elements adopt LD 34mil feed channel spacer to improve the liquid turbulence on the surface of membrane, thus reducing the risk of colloid congestion and the frequency of cleaning.

LP series is normally suitable for treatment of brackish water, surface water, underground water and municipal water with TDS is less than 10000 ppm. It is mainly used for producing various scales of bottle water, drinking water, industrial used pure water, high purity water, boiler replenishment water, also for wastewater reuse, material concentration, purification and refining purposes.

Model	Active Membrane Area ft ² (m ²)	Permeate flow GPD(m ³ /d)	Stable Rejection Rate %	Feed Spacer Thickness mil
LP400-LD	400 (37.2)	10500 (39.7)	99.7	34-LD
Testing Conditions	Operating pressure at 225 psi (1.55Mpa)			
	Temperature at 25°C			
	Tested in 2000 mg/L NaCL solution			
	pH 7.0 ± 0.5			
Operation	Recovery rate at 15%			
	Maximum operating pressure		600psi (4.14Mpa)	
	Maximum feedwater flow		45°C	
Limits & Conditions	Maximum feedwater temperature		75gpm (17 m ³ /h)	
	Maximum feedwater flow SDI ₁₅		5	
Conditions	Allowed pH range for feedwater in operation		2~11	
	Allowed pH range for chemical cleaning		1~13	
	Maximum concentration of free chlorine		<0.1ppm	
	Maximum pressure drop per element		15psi (0.1Mpa)	

Size of Membrane Element: 1.0 inch = 25.4 mm



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. We assume no liability for any consequences of user's failure in abiding 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.
2. The permeate value listed in the table is the average value. The permeate flow of single membrane element is tolerance not exceeding $\pm 15\%$ 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 being used; 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 (food grade).
5. Operate low pressure flushing for 15-25 minutes of first use, high pressure flushing for 60-90 minutes when first use (Permeate flow no less than 50% of designed flow). Discard all the permeate and concentrated water produced during the first one hour after system start-up.
6. During storage and operation period, it is strictly prohibited to add any chemicals that may be harmful to membrane elements. In case of any violation in adding chemicals, Vontron assumes no liabilities for any damages incurred.
7. Along with technical development and product renovation, all information will be subject to modification without prior notification. Please keep notice of our website for any updates of the product.