

VONTRON VHD-8040/34G Membrane Element

Brief Introduction

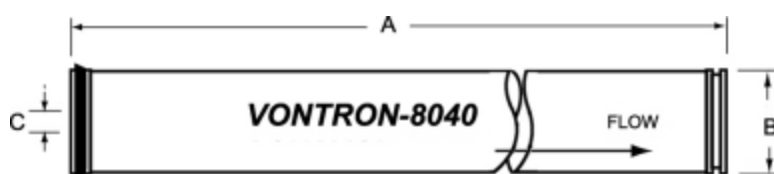
VHD-8040/34G heat sanitizable reverse osmosis membrane element is a product developed for pasteurization in food and pharmaceutical industries. The product uses hygienic pass, shell and accessories, which can minimize the stagnant areas between membrane element and pressure vessel. The product all components comply with FDA standards.

Features

- Satisfied with the requirement of pasteurization
- Sanitary structure design
- The product comply with USA FDA standards

Model	Active Membrane Area ft ² (m ²)	Permeate flow GPD(m ³ /d)	Stable Rejection Rate %	Feed Spacer Thickness mil
VHD-8040/34G	400 (37.2)	9000 (34.0)	98.0	34
Testing Conditions	Operating pressure 150 psi (1.03MPa)			
	Temperature at 25°C			
	Tested at 2000mg/L NaCl solution			
	pH 7.0 ± 0.5			
Operation	Recovery rate at 15%			
	Maximum operating pressure		600psi (4.14MPa)	
	Maximum feedwater flow		75gpm (17 m ³ /h)	
	Feedwater Temperature:		< 45°C	
Limits & Conditions	Maximum feedwater flow SDI ₁₅		5	
	Maximum Temperature of Heat Sanitization		85°C (25psi 1.75bar)	
	Allowed pH range for feedwater in operation		3~10	
	Allowed pH range for chemical cleaning		2~12	
	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



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.
2. The permeate value listed in the table is the average value. The permeate flow of single membrane element is tolerance not exceeding $\pm 20\%$ 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).
5. 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.
7. 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.