



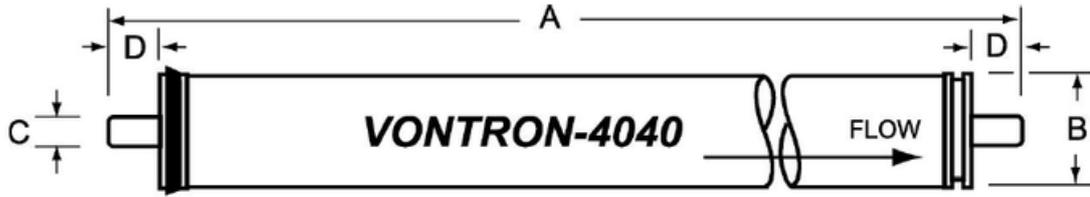
Vontron membrane 4" ULP21 4040

ULP series of ultra-low pressure aromatic polyamide compound membrane element newly developed by Vontron Membrane Technology Co., Ltd. can work under ultra low pressure to reach as high permeate flow and rejection same as regular low-pressure membrane element, and is applicable to desalination of surface water and underground water. It operates under approximately two thirds of the operating pressure of regular low-pressure composite membranes, which can decrease the investment costs for such relevant facilities as pumps, pipelines, and containers, etc. and the operating cost for the RO system, thus increasing the economic efficiency.

Applicable to desalination treatment of those water sources with NaCl lower than 2000 ppm, such as surface water, underground water, tap water and municipal water, ULP series membrane elements are mainly applicable to such as pure water, boiler water replenishment, foodstuff processing, and pharmaceutical production.

Model	Active Membrane Area ft ² (m ²)	Average Permeate GPD(m ³ /d)	Stable Rejection Rate %	Min. Rejection Rate %
ULP21-4040	90 (8.4)	2400 (9.1)	99.0	98.5
Testing Conditions	Testing Pressure		150 psi (1.03MPa)	
	Testing Solution Temperature		25 °C	
	Concentration of Testing Solution (NaCl)		1500ppm	
	pH value of Testing Solution		7.5	
	Recovery Rate of Single Element		15%	
Operation Limits & Conditions	Max. Working Pressure		600psi (4.14MPa)	
	Max. Volume of Feed water		16gpm (3.6 m ³ /h)	
	Max. Temperature of Feed water		45°C	
	Max. Feed water SDI ₁₅		5	
	pH Range of Feed water during Continuous Operation		3~10	
	pH Range of Feed Water during Chemical Cleaning		2~12	
	Residual Chlorine Concentration of Feed Water		<0.1ppm	
	Max. Pressure Drop of Single Membrane Element		15psi (0.1MPa)	
	Max. Pressure Drop of Single Pressure Vessel with Six RO Membranes		50psi (0.34MPa)	

Size of Membrane Element: 1.0 inch=25.4 mm



A/mm(inch)	B/mm(inch)	C/mm(inch)	D/mm(inch)
1016.0(40)	99.7(3.9)	19.1(0.75)	26.7(1.05)



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