

TAPU-MS Membrane Element

Brief Introduction

Organics, microbes, viruses and most of metal ions with two or higher valence can be filtered by Tapurim Series NF element, while sodium, potassium, calcium, magnesium ions, etc. can be retained in the permeated water.

TAPU-MS Model has higher rejection rate of monovalent ions while maintaining a proper rejection rate of organics, which is applicable to the removal of organic and inorganic matters in mid-salinity raw water.

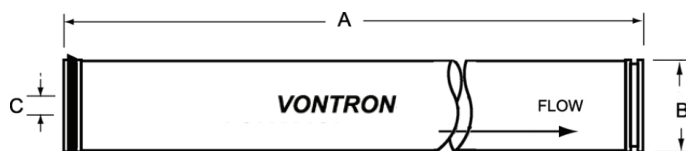
* This membrane element is developed by utilizing the technology of controllable porosity formation in separation layers, and is designed for waters with middle and high salinity to meet the requirements of healthy drinking water.

*The use of brand-new LD (low pressure difference) 34-mil feed channel spacer improves the fouling resistance while reducing the energy consumption.

*The entire series of elements have been officially authorized by "Hygiene Permit for Products Related to Drinking Water Hygiene Safety", thus ensuring the safety of membrane element application.

Model	Active Membrane Area ft ² (m ²)	Permeate Flow GPD(m ³ /d)	Sulfate Removal Rate%	TOC Removal Rate%
TAPU-MS	400 (37.2)	9000 (34.1)	95	90
Testing Conditions	Operating pressure 70 psi (0.48Mpa)			
	Temperature at 25°C			
	Tested in mixed solution of NaCl, MgSO ₄ and CaCl ₂ , pH 7.0 ± 0.5			
	Recovery rate at 15%			
Operation	Maximum operating pressure		600psi (4.14Mpa)	
	Maximum feedwater flow		75gpm (17 m ³ /h)	
	Maximum feedwater temperature		45°C	
	Maximum feedwater flow SDI ₁₅		5	
Limits & Conditions	Allowed pH range for feedwater in operation		3~10	
	Allowed pH range for chemical cleaning		2~12	
Conditions	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)