

Heat Sanitizable RO Membrane Elements

AMI thin film heat sanitizable HSRO elements are specially designed to withstand hot water sanitization, eliminating the need for chemical sanitizers. AMI heat sanitizable membrane elements have an FRP external shell, fit industry-standard size housings, and consistently deliver high productivity and rejection.



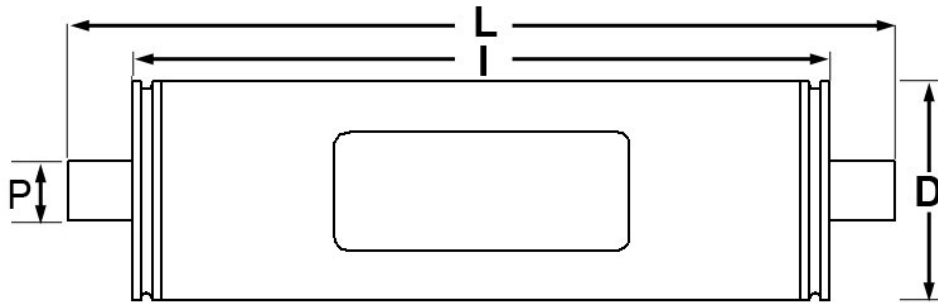
PERFORMANCE SPECIFICATIONS

Model No.	Permeate Flow Rate		Size (Dia."× Length")	Single Element Recovery (%)	Stabilized Salt Rejection (%)
	gpd	lpd			
M-B2514HS	200	757	2.5 × 14	5	99.5
M-B2521HS	325	1,230	2.5 × 21	8	99.5
M-B2540HS	1,000	3,785	2.5 × 40	15	99.5
M-B4021HS	900	3,407	4.0 × 21	8	99.5
M-B4040HS	1,900	7,192	4.0 × 40	15	99.5

Note: Performance specifications based on 2,000 mg/l sodium chloride, 150 psi (1 MPa) applied pressure, 77°F (25°C) feed water temperature, pH 8 and the recovery listed in the table above. Element permeate flow may vary ± 20%.

RECOMMENDED OPERATING CONDITIONS

◆ Maximum Operating Pressure	600 psig (4.1MPa)	◆ Chlorine Tolerance:	0
◆ Maximum Operating Temperature	113°F (45°C)	◆ Maximum Feed Flow Rate	
◆ Maximum Sanitization Temperature	185°F (85°C) @ 25psi	○ 2.5" Dia. Elements	6 gpm
◆ Maximum Feed water Turbidity	1 NTU	○ 4" Dia. Elements	17 gpm
◆ Maximum Feed water SDI (15 min)	5	◆ Feed water pH Range (Continuous)	2-11
◆ Maximum Pressure Drop:	15psig (1 bar)	◆ Feed water pH Range (Cleaning – 30 min.)	1-12



MEMBRANE ELEMENT DIMENSIONS

Model No.	L		I		P		D	
	inches	cm	inches	cm	inches	cm	inches	cm
M-B2514HS	14	35.6	11.62	30	0.75	1.9	2.5	6.4
M-B2521HS	21	53.3	19	48	0.75	1.9	2.5	6.4
M-B2540HS	40	101.6	38	96	0.75	1.9	2.5	6.4
M-B4021HS	21	53.3	19	48	0.75	1.9	3.9	9.9
M-B4040HS	40	101.6	38	96	0.75	1.9	3.9	9.9

Preconditioned Heat Sanitizable RO Membrane Elements HSROP

AMI thin film heat sanitizable HSROP elements are specially designed to withstand hot water sanitization, eliminating the need for chemical sanitizers, and have been preconditioned with hot water before being preserved and packaged. AMI heat sanitizable membrane elements have an FRP external shell, fit industry-standard size housings, and consistently deliver high productivity and rejection.



PERFORMANCE SPECIFICATIONS

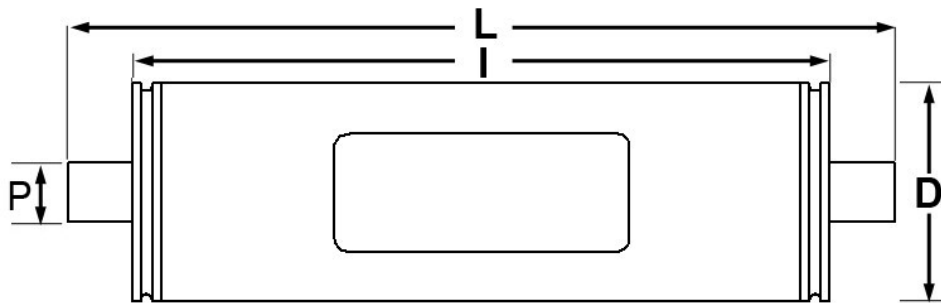
Model No.	Permeate Flow Rate		Size (Dia."× Length")	Single Element Recovery (%)	Stabilized Salt Rejection (%)
	gpd	lpd			
M-B2514HSP	200	757	2.5 × 14	5	99.5
M-B2521HSP	325	1,230	2.5 × 21	8	99.5
M-B2540HSP	1,000	3,785	2.5 × 40	15	99.5
M-B4021HSP	900	3,407	4.0 × 21	8	99.5
M-B4040HSP	1,900	7,192	4.0 × 40	15	99.5

Note: Performance specifications based on 2,000 mg/l sodium chloride, 150 psi (1 MPa) applied pressure, 77°F (25°C) feed water temperature, pH 8 and the recovery listed in the table above. Element permeate flow may vary ± 20%.

HSROP elements, which are pre-conditioned in hot water then preserved in a 2% sodium metabisulfite solution, and are shipped wet.

RECOMMENDED OPERATING CONDITIONS

◆ Maximum Operating Pressure	600 psig (4.1MPa)	◆ Chlorine Tolerance:	0
◆ Maximum Operating Temperature	113°F (45°C)	◆ Maximum Feed Flow Rate	
◆ Maximum Sanitization Temperature	185°F (85°C) @ 25psi	○ 2.5" Dia. Elements	6 gpm
◆ Maximum Feed water Turbidity	1 NTU	○ 4" Dia. Elements	17 gpm
◆ Maximum Feed water SDI (15 min)	5	◆ Feed water pH Range (Continuous)	2-11
◆ Maximum Pressure Drop:	15psig (1 bar)	◆ Feed water pH Range (Cleaning – 30 min.)	1-12



MEMBRANE ELEMENT DIMENSIONS

Model No.	L		I		P		D	
	inches	cm	inches	cm	inches	cm	inches	cm
M-B2514HSP	14	35.6	11.62	30	0.75	1.9	2.5	6.4
M-B2521HSP	21	53.3	19	48	0.75	1.9	2.5	6.4
M-B2540HSP	40	101.6	38	96	0.75	1.9	2.5	6.4
M-B4021HSP	21	53.3	19	48	0.75	1.9	3.9	9.9
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