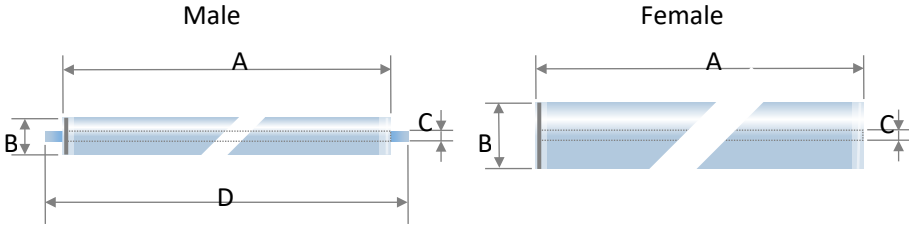


# UNISOL AR Series Reverse Osmosis Membrane Modules

## Acid-resistant rolled reverse osmosis membrane series

Description		The AR Series RO membrane was developed for stable, high flux performance over long periods of time in acidic environments for acid concentration of low pH feed solutions. Typical solutions such as the concentration of H <sub>2</sub> SO <sub>4</sub> . AR Series RO membrane elements utilize proprietary feed grids, production grids, adhesives and fiberglass cladding construction for long-term operation in acidic conditions.				
Specification		Membrane	RO4			
		Material	TFC			
		Permeate Flow <sup>(1) (2)</sup>	AR RO4 2540M	560 (2.1)		
		GPD (m <sup>3</sup> /d)	AR RO4 4040M-M	1,600 (6.1)		
			AR RO4 8040B	6,400 (24)		
			AR RO4 8040M	6,700 (25)		
		Stabilized Salt Rejection <sup>(1)</sup>	≥ 98%			
Limits		Max Operating Pressure:	60bar			
		Max Pressure Drop:	1bar			
		Max Operating Temperature:	50 °C			
		Cleaning pH Range:	0–12			
Area		Model number	Material number	Membrane area		
ft <sup>2</sup> (m <sup>2</sup> )		AR RO4 2540M	91112447	25 (2.3)		
		AR RO4 4040M-M	91112448	80 (7.5)		
		AR RO4 8040B	/	370 (35)		
		AR RO4 8040M	/	370 (34.4)		
Dimensions						
		Size mm (inch)	A <sup>[1]</sup>	∅B <sup>[2]</sup>	∅C <sup>[3]</sup>	D
		2540 Male	965 (38)	62 (2.4)	19 (0.748)	1016 (40)
		4040 Male	965 (38)	99.4 (3.9)	19 (0.748)	1016 (40)
		4040 Female	1016 (40)	99.4 (3.9)	16 (0.629)	/
		8040 Female	1016 (40)	200.5 (7.9)	28.9 (1.138)	/
		<sup>[1]</sup> Tolerance: -2~0mm. <sup>[2]</sup> Tolerance: -2~0mm. <sup>[3]</sup> 2540/4040-M tolerance: 0~+0.1 mm. 4040-F tolerance: ±0.1mm. 8040 tolerance: -0.2~0 mm.				

<sup>(1)</sup> *Test condition: 32000ppm NaCl, 55bar, 25°C, pH 6.5-7.0.*

<sup>(2)</sup> *Permeate flow for individual elements may vary  $\pm$  20%.*

<sup>(3)</sup> *For the purpose of improvement, specifications may be updated periodically.*