



## Ultrafiltration Membrane


### > Ultrafiltration

UF membrane can not remove dissolved ions but can remove small particles. Usually, UF membranes can remove anything under 0.01 micron.(1/106 of hair). It can be used for ultrapure water polishing and household purposes.







#### • Models & Product Characteristics

Model	Flow Rate (GPD, m <sup>3</sup> /d)	Molecular Weight Cut Off (MWCO)	Dimension (inch)		Test Conditions	Down
			Diameter	Length		
UE4040-PF	3,500	100K (90%)	4.0	40	20psi, DI water	
UE8040-PF	14,000	100K (90%)	8.0	40		

#### • Models & Product Characteristics (Household Elements)

Model	Flow Rate (GPD)	MWCO (Molecular Weight Cut Off)	Dimension (inch)		Test Conditions	Down
			Diameter	Length		
UE1810	200	1000K	1.8	10	20psi, Pure water	
UE1812	250	1000K	1.8	12		
UE2010	450	1000K	2.0	10		










### > Nanofiltration

Category	Flow Rate (GPD, m <sup>3</sup> /d)	Rej (%) NaCl (MgSO <sub>4</sub> )	Dimension (inch)		Test Conditions	Specs
			Diameter	Length		
NF8040-90 <sup>(N)</sup>	9,000 (34.1)	85-95 (99.5)	8.0	40	40" NE Standard	
NF8040-70	7,000 (26.5)	60-70 (99.5)	8.0	40	40" NE Standard	
NF4040-90 <sup>(N)</sup>	1,900 (7.2)	85-95 (99.5)	4.0	40	40" NE Standard	
NF4040-70	1,500 (5.7)	60-70 (99.5)	4.0	40	40" NE Standard	
NF2540-90	450 (1.7)	85-95 (99.5)	2.5	40	40" NE Standard	
NF2540-70	350 (1.3)	60-70 (99.5)	2.5	40	40" NE Standard	

## Reverse Osmosis Membrane








### Models & Product Characteristics

#### > Brackish water use

Category	Flow Rate (GPD, m <sup>3</sup> /d)	Salt Rej (%)	Dimension (inch)		Test Conditions	Specs
			Diameter	Length		
RO8040-BE <sup>(N)</sup>	11,000 (41.6)	99.5	8.0	40	40" BW Standard	
RO8040-BE440	12,000 (45.4)	99.5	8.0	40	40" BW Standard	
RO8040-BN	10,000 (37.9)	99.5	8.0	40	40" BW Standard	
RO8040-BN300	9,000 (34.1)	99.5	8.0	40	40" BW Standard	
RO8040-BR	5,500 (20.8)	99.7	8.0	40	40" BW Standard	
RO4040-BE	2,400 (9.1)	99.5	4.0	40	40" BW Standard	
RO4040-BN	2,000 (7.6)	99.5	4.0	40	40" BW Standard	
RO4021-BE	1,050 (4.0)	99.5	4.0	21	21" BW Standard	
RO2540-BN	600 (2.3)	99.5	2.5	40	40" BW Standard	










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#### > Low pressure use












Category	Flow Rate (GPD, m <sup>3</sup> /d)	Salt Rej (%)	Dimension (inch)		Test Conditions	Specs
			Diameter	Length		
RO8040-BLN440	13,000 (49.2)	99.0	8.0	40	40" LP Standard	
RO8040-BLN <sup>(N)</sup>	12,000 (45.4)	99.2	8.0	40	40" LP Standard	
RO8040-BLR <sup>(N)</sup>	9,000 (34.0)	99.5	8.0	40	40" LP Standard	
RO8040-BLF <sup>(N)</sup>	11,500 (43.5)	99.2	8.0	40	40" LP High Flux	
RO4040-BLN <sup>(N)</sup>	2,600 (9.8)	99.2	4.0	40	40" LP Standard	
RO4040-BLR <sup>(N)</sup>	1,900 (7.2)	99.5	4.0	40	40" LP Standard	
RO4040-BLF <sup>(N)</sup>	2,500 (9.5)	99.2	4.0	40	40" LP High Flux	

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> Fouling resistant use

Category	Flow Rate (GPD, m <sup>3</sup> /d)	Salt Rej (%)	Dimension (inch)		Test Conditions	Specs
			Diameter	Length		
RO8040-FE <sup>n</sup>	11,000 (41.6)	99.5	8.0	40	40" BW Standard	
RO8040-FE	11,000 (41.6)	99.5	8.0	40	40" BW Standard	
RO8040-FN	10,000 (37.9)	99.5	8.0	40	40" BW Standard	
RO8040-FN300	9,000 (34.1)	99.5	8.0	40	40" BW Standard	
RO8040-FD <sup>n</sup>	10,000 (37.9)	99.5	8.0	40	40" BW Standard	
RO8040-FD	10,000 (37.9)	99.5	8.0	40	40" BW Standard	
RO8040-FL	9,000 (34.0)	99.0	8.0	40	40" LP Standard	
RO4040-FE	2,100 (7.9)	99.5	4.0	40	40" BW Standard	
RO4040-FL	1,900 (7.2)	99.0	4.0	40	40" LP Standard	

> Seawater use






Category	Flow Rate (GPD, m <sup>3</sup> /d)	Salt Rej (%)	Dimension (inch)		Test Conditions	Specs
			Diameter	Length		
RO8040-SR	6,000 (22.7)	99.6	8.0	40	40" SW Standard	
RO8040-SR400	6,500 (24.6)	99.6	8.0	40	40" SW Standard	
RO8040-SN	6,000 (22.7)	99.2	8.0	40	40" SW Standard	
RO8040-SH	4,500 (17.0)	99.75	8.0	40	40" SW Standard	
RO8040-SHN	6,000 (22.7)	99.75	8.0	40	40" SW Standard	
RO8040-SHN400	6,500 (24.6)	99.75	8.0	40	40" SW Standard	
RO4040-SR	1,200 (4.5)	99.6	4.0	40	40" SW Standard	
RO4040-SH	1,000 (3.8)	99.75	4.0	40	40" SW Standard	
RO4021-SR	600 (2.3)	99.6	4.0	21	21" SW Standard	
RO2540-SR	500 (1.9)	99.6	2.5	40	40" SW Standard	
RO2521-SR	225 (0.85)	99.6	2.5	21	21" SW Standard	

> Tap Water use




Category	Flow Rate (GPD, m <sup>3</sup> /d)	Salt Rej (%)	Dimension (inch)		Test Conditions	Specs
			Diameter	Length		
RO4040-TE <sup>(N)</sup>	2,400 (9.1)	99.5	4.0	40	40" BW Standard	
RO4021-TE	1,050 (4.0)	99.5	4.0	21	21" BW Standard	
RO2540-TE <sup>(N)</sup>	800 (3.0)	99.5	2.5	40	40" BW Standard	
RO2521-TE	300 (1.1)	99.5	2.5	21	21" BW Standard	
RO4040-TL	2,600 (9.8)	99.0	4.0	40	40" LP Standard	
RO4021-TL	1,050 (4.0)	99.0	4.0	21	21" LP Standard	
RO2540-TL	850 (3.2)	99.0	2.5	40	40" LP Standard	
RO2521-TL	300 (1.1)	99.0	2.5	21	21" LP Standard	

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> Ultra Pure Water use


Category	Flow Rate (GPD, m <sup>3</sup> /d)	Salt Rej (IPA Rej) (%)	Dimension (inch)		Test Conditions	Specs
			Diameter	Length		
RO8040-UE	9,000 (34.1)	99.5 (95.0)	8.0	40	40" BW Standard	
RO8040-UR	5,500 (20.8)	99.7 (96.0)	8.0	40	40" BW Standard	
RO8040-HUE	9,000 (34.1)	99.5 (96.0)	8.0	40	40" BW Standard	
RO8040-HUE440	10,000 (37.9)	99.5 (96.0)	8.0	40	40" BW Standard	
RO8040-UL	10,000 (37.9)	99.5 (92.0)	4.0	40	40" LP Standard	

> Residential Use

Model	Flow Rate (GPD)	Salt Rej (%)	Dimension (inch)		Test Conditions	Specs
			Diameter	Length		
RO1810-30	30	96	1.8	10	60psi, NaCl 250ppm	
RO1810-50 <sup>(N)</sup>	50	96	1.8	10		
RO1812-35 <sup>(N)</sup>	35	96	1.8	12		
RO1812-50	50	96	1.8	12		
RO1812-60 <sup>(N)</sup>	60	96	1.8	12		
RO1812-80 <sup>(N)</sup>	80	96	1.8	12		
RO2012-100 <sup>(N)</sup>	100	96	2.0	12	60psi, NaCl 250ppm	
RO2012-LPF	180	93	2.0	12		
RO2812-300	300	96	2.8	12		
RO2010-LP <sup>(N)</sup>	33	93	1.8	12	20psi, NaCl 100ppm	
RO2012-LP <sup>(N)</sup>	50	96	2.0	12		

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> Residential Use Ultrafiltration

Model	Flow Rate (GPD)	MWCO	Dimension (inch)		Test Conditions	Specs
			Diameter	Length		
UF1810	200	1000K	1.8	10	20psi, Pure water	
UE1812	250	1000K	1.8	12		
UE2010	450	1000K	2.0	10		

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\* Test Conditions

- 40" BW Standard : NaCl 2,000 mg/L, Pressure 225 psig (1.5 MPa), Temp. 25 °C (77 °F), pH 6.5~7.0, Recovery 15%
- 21" BW Standard : NaCl 2,000 mg/L, Pressure 225 psig (1.5 MPa), Temp. 25 °C (77 °F), pH 6.5~7.0, Recovery 8%
- 40" LP Standard : NaCl 1,500 mg/L, Pressure 150 psig (1.0 MPa), Temp. 25 °C (77 °F), pH 6.5~7.0, Recovery 15%
- 21" LP Standard : NaCl 1,500 mg/L, Pressure 150 psig (1.0 MPa), Temp. 25 °C (77 °F), pH 6.5~7.0, Recovery 8%
- 40" LP High Flux: NaCl 500 mg/L, Pressure 100 psig (0.7 MPa), Temp. 25 °C (77 °F), pH 6.5~7.0, Recovery 15%
- 40" SW Standard : NaCl 32,000 mg/L, Pressure 800 psig (5.5MPa), Temp. 25 °C (77 °F), pH 6.5~7.0, Recovery 8%
- 21" SW Standard : NaCl 32,000 mg/L, Pressure 800 psig (5.5MPa), Temp. 25 °C (77 °F), pH 6.5~7.0, Recovery 4%
- 40" NE Standard : NaCl 2,000 mg/L, Pressure 75 psig (0.5MPa), Temp. 25 °C (77 °F), pH 6.5~7.0, Recovery 15%
- MgSO<sub>4</sub> : MgSO<sub>4</sub> 2,000 mg/L, Pressure 75 psig (0.5MPa), Temp. 25 °C (77 °F), pH 6.5~7.0, Recovery 15%
- IPA rejection test conditions : IPA 1,000 mg/L, Pressure 225 psig, Temp. 25 °C (77 °F), pH 6.5~7.0, Recovery 15%

\* The above characteristics may be changed without notice for performance improvement and easier customer use.

\* IPA rejection data were obtained after operating membrane element at the IPA rejection condition for 2 hours.

\* The given product performance statistics have been achieved according to our own test conditions and may vary from different fields of use..