



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, m3/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 ³ /d) | Rej (%) NaCl (MgSO ₄) | Dimension (inch) | | Test Conditions | Specs |
|--------------------------|---------------------------------------|--------------------------------------|------------------|--------|-----------------|---|
| | | | Diameter | Length | | |
| NF8040-90 ^(N) | 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 ^(N) | 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 ³ /d) | Salt Rej (%) | Dimension (inch) | | Test Conditions | Specs |
|--------------------------|---------------------------------------|--------------------|------------------|--------|-----------------|---|
| | | | Diameter | Length | | |
| RO8040-BE ^(N) | 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 ³ /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 ^(N) | 12,000 (45.4) | 99.2 | 8.0 | 40 | 40" LP Standard |  |
| RO8040-BLR ^(N) | 9,000 (34.0) | 99.5 | 8.0 | 40 | 40" LP Standard |  |
| RO8040-BLF ^(N) | 11,500 (43.5) | 99.2 | 8.0 | 40 | 40" LP High Flux |  |
| RO4040-BLN ^(N) | 2,600 (9.8) | 99.2 | 4.0 | 40 | 40" LP Standard |  |
| RO4040-BLR ^(N) | 1,900 (7.2) | 99.5 | 4.0 | 40 | 40" LP Standard |  |
| RO4040-BLF ^(N) | 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 ³ /d) | Salt Rej (%) | Dimension (inch) | | Test Conditions | Specs |
|------------------------|---------------------------------------|--------------------|------------------|--------|-----------------|---|
| | | | Diameter | Length | | |
| RO8040-FE ⁿ | 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 ⁿ | 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 ³ /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 ³ /d) | Salt Rej (%) | Dimension (inch) | | Test Conditions | Specs |
|--------------------------|---------------------------------------|--------------|------------------|--------|-----------------|---|
| | | | Diameter | Length | | |
| RO4040-TE ^(N) | 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 ^(N) | 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 ³ /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 ^(N) | 50 | 96 | 1.8 | 10 | | |
| RO1812-35 ^(N) | 35 | 96 | 1.8 | 12 | | |
| RO1812-50 | 50 | 96 | 1.8 | 12 | | |
| RO1812-60 ^(N) | 60 | 96 | 1.8 | 12 | | |
| RO1812-80 ^(N) | 80 | 96 | 1.8 | 12 | | |
| RO2012-100 ^(N) | 100 | 96 | 2.0 | 12 | 60psi, NaCl 250ppm |  |
| RO2012-LPF | 180 | 93 | 2.0 | 12 | | |
| RO2812-300 | 300 | 96 | 2.8 | 12 | | |
| RO2010-LP ^(N) | 33 | 93 | 1.8 | 12 | 20psi, NaCl 100ppm |  |
| RO2012-LP ^(N) | 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%
- MgSO₄ : MgSO₄ 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..