

## RO membrane performance parameters

| Category                                        | Model          | Stable desalination rate % | Average water production GPD (m3/d) | Membrane area ft2(m2) | Inlet grid (mil) | Test conditions |               |                 |
|-------------------------------------------------|----------------|----------------------------|-------------------------------------|-----------------------|------------------|-----------------|---------------|-----------------|
|                                                 |                |                            |                                     |                       |                  | Test pressure   | Test solution | Recovery rate % |
| Low pressure reverse osmosis membrane LP        | LP22-8040      | 99.7                       | 10500(39.7)                         | 400(37.2)             | 28               | 225(1.55)       | 2000          | 15              |
|                                                 | LP22-8040PRO   | 99.7                       | 11000(41.6)                         | 400(37.2)             | 28               |                 |               |                 |
|                                                 | LP22-8040/31   | 99.7                       | 10500(39.7)                         | 400(37.2)             | 31               |                 |               |                 |
|                                                 | LP22-8040-440  | 99.7                       | 11500(43.5)                         | 440(40.9)             | 28               |                 |               |                 |
|                                                 | LP21-4040      | 99.6                       | 2800(10.6)                          | 100(9.3)              | 28               |                 |               |                 |
| Ultra low pressure reverse osmosis membrane ULP | ULP22-8040     | 99.0                       | 12100(45.8)                         | 400(37.2)             | 28               | 150(1.03)       | 1500          | 15              |
|                                                 | ULP32-8040     | 99.5                       | 10500(39.7)                         | 400(37.2)             | 28               |                 |               |                 |
|                                                 | ULP32-8040/31  | 99.5                       | 10500(39.7)                         | 400(37.2)             | 31               |                 |               |                 |
|                                                 | ULP32-8040-440 | 99.3                       | 12650(47.9)                         | 440(40.9)             | 28               |                 |               |                 |
|                                                 | ULP21-4040     | 99.5                       | 2600(9.8)                           | 100(9.3)              | 28               |                 |               |                 |
|                                                 | ULP31-4040     | 99.6                       | 2000(7.6)                           | 100(9.3)              | 28               |                 |               |                 |
|                                                 | ULP21-4021     | 99.0                       | 950(3.6)                            | 36(3.3)               | 28               |                 | 8             | 15              |
|                                                 | ULP21-2521     | 99.0                       | 300(1.1)                            | 14(1.3)               | 28               |                 |               |                 |
|                                                 | ULP21-2540     | 99.0                       | 750(2.8)                            | 30(2.8)               | 28               |                 |               |                 |
| Ultra low pressure reverse osmosis membrane XLP | XLP12-8040     | 99.2                       | 12800(48.4)                         | 400(37.2)             | 28               | 100(0.69)       | 500           | 15              |
|                                                 | XLP11-4040     | 99.2                       | 2600(9.8)                           | 100(9.3)              | 28               |                 |               |                 |
| Anti pollution reverse osmosis membrane FR      | FR12-8040      | 99.5                       | 10500(39.7)                         | 400(37.2)             | 34               | 225(1.55)       | 2000          | 15              |
|                                                 | FR22-8040PRO   | 99.7                       | 11000(41.6)                         | 400(37.2)             | 34               |                 |               |                 |
|                                                 | FR400-LD       | 99.6                       | 10500(39.7)                         | 400(37.2)             | 34               |                 |               |                 |
|                                                 | FR11-4040      | 99.5                       | 2200(8.3)                           | 90(8.4)               | 34               |                 |               |                 |
| Antioxidant reverse osmosis membrane HOR        | HOR22-8040     | 99.5                       | 9000(34.0)                          | 400(37.2)             | 28               | 225(1.55)       | 2000          | 15              |
|                                                 | HOR21-4040     | 99.5                       | 2200(8.3)                           | 90(8.4)               | 28               |                 |               |                 |

## Seawater desalination membrane performance parameters

| Category                          | Model         | Stable desalination rate % | Average water production GPD (m3/d) | Membrane area ft2(m2) | Inlet grid (mil) | Test conditions         |                                        |                 |
|-----------------------------------|---------------|----------------------------|-------------------------------------|-----------------------|------------------|-------------------------|----------------------------------------|-----------------|
|                                   |               |                            |                                     |                       |                  | Test pressure psi (MPa) | Test solution concentration NaCl (ppm) | Recovery rate % |
| Seawater desalination membrane SW | SW8040XHR-400 | 99.85                      | 6000(22.7)                          | 400(37.2)             | 28               | 800(5.52)               | 32000                                  | 8               |
|                                   | SW8040XHR-440 | 99.85                      | 6600(25.0)                          | 440(40.9)             | 28               |                         |                                        |                 |
|                                   | SW8040FR-400  | 99.8                       | 8200(31.0)                          | 400(37.2)             | 34               |                         |                                        |                 |
|                                   | SW8040HR-400  | 99.8                       | 7500(28.4)                          | 400(37.2)             | 28               |                         |                                        |                 |
|                                   | SW8040HR-440  | 99.8                       | 8250(31.2)                          | 440(40.9)             | 28               |                         |                                        |                 |
|                                   | SW8040LE-400  | 99.8                       | 9000(34.0)                          | 400(37.2)             | 28               |                         |                                        |                 |
|                                   | SW8040LE-440  | 99.8                       | 9500(35.9)                          | 440(40.9)             | 28               |                         |                                        |                 |
|                                   | SW8040XLE-400 | 99.7                       | 11000(41.6)                         | 400(37.2)             | 28               |                         |                                        |                 |
|                                   | SW8040XLE-440 | 99.7                       | 12100(45.8)                         | 440(40.9)             | 28               |                         |                                        |                 |
|                                   | SW4040HR      | 99.8                       | 1600(6.1)                           | 90(8.4)               | 28               |                         |                                        |                 |
|                                   | SW4040LE      | 99.7                       | 1900(7.2)                           | 90(8.4)               | 28               |                         |                                        |                 |
|                                   | SW11-4021     | 99.5                       | 750(2.8)                            | 33(3.1)               | 28               |                         |                                        | 4               |
|                                   | SW11-2521     | 99.5                       | 270(1.0)                            | 12(1.1)               | 28               |                         |                                        |                 |
|                                   | SW11-2540     | 99.5                       | 600(2.3)                            | 28(2.6)               | 28               |                         |                                        | 8               |
|                                   | SW21-2540     | 99.7                       | 800(3.0)                            | 28(2.6)               | 28               |                         |                                        |                 |