



# BW 4021 UES

Ultra-energy-saving brackish water RO membrane for commercial applications

### Key Features

- Highest permeate flow rate
- Good durability

### Main Benefits

- Low energy consumption

### Ideal Applications

- Light industrial process water
- Commercial applications

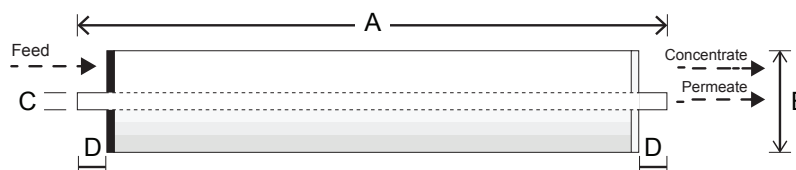
### Performance Specifications

| Item                      | Unit                              | Value       |
|---------------------------|-----------------------------------|-------------|
| Permeate Flow Rate        | GPD (m <sup>3</sup> /d)           | 1,000 (3.8) |
| Stabilized Salt Rejection | %                                 | 99.0        |
| Minimum Salt Rejection    | %                                 | 98.0        |
| Active Membrane Area      | ft <sup>2</sup> (m <sup>2</sup> ) | 34 (3.2)    |
| Feed Spacer Thickness     | mil                               | 28          |

The specifications outlined above are normalized performances based on the following test conditions:

- **Test Condition:** 500 ppm NaCl, 100 psi (6.9 bar), 25°C (77°F), pH 7, Recovery 8%
- Permeate flow rates for individual elements may vary by ~15%

### Dimensions and Weight



| Dimensions: mm (in) |              |                |                | Wet Weight: kg (lbs) |
|---------------------|--------------|----------------|----------------|----------------------|
| A                   | B            | C              | D              | 2.3 (5.1)            |
| Element Length      | Element O.D. | Core Tube I.D. | Core Tube Ext. |                      |
| 533 (21)            | 100 (3.9)    | 19 (0.75)      | 29 (1.1)       |                      |

All dimensional information is indicative and for reference only. Please contact NanoH2O for detailed technical specifications.

### Operating Specifications

| Specification                               | Unit                    | Value      |
|---------------------------------------------|-------------------------|------------|
| Maximum Applied Pressure                    | psi (bar)               | 600 (41.3) |
| Maximum Chlorine Concentration              | ppm                     | < 0.1      |
| Maximum Operating Temperature               | °C (°F)                 | 45 (113)   |
| pH Range, Continuous Operation              |                         | 2-11       |
| pH Range, Cleaning                          |                         | 2-12       |
| Maximum Feed Water Turbidity                | NTU                     | 1.0        |
| Maximum Feed Water SDI <sub>15</sub>        |                         | 5.0        |
| Maximum Feed Flow                           | gpm (m <sup>3</sup> /h) | 16 (3.6)   |
| Maximum Pressure Drop (ΔP) for Each Element | psi (bar)               | 15 (1.0)   |

These operating specifications are for general use. For specific applications, operation at more conservative values may ensure better performance and extended membrane life. See NanoH2O Technical Bulletins for more details.



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