



# BW 400 ES G2

Next-generation energy saving brackish water RO membrane with an advanced 34 mil low dP feed spacer technology

## Key Features

- Upgrade in flow performance and salt rejection at low feed pressure operations
- Reduced differential pressure and excellent fouling resistance

## Main Benefits

- Enhanced water quality with lower energy consumption
- Reduced cleaning frequency, chemical use, membrane replacements
- Reduced energy consumption and total cost of plant ownership

## Ideal Applications

- Industrial process water
- Municipal drinking water
- Water reuse

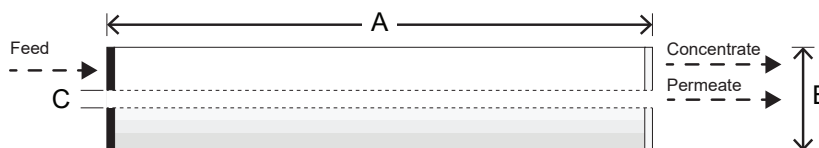
## Performance Specifications

| Item                      | Unit                              | Test Condition A | Test Condition B |
|---------------------------|-----------------------------------|------------------|------------------|
| Permeate Flow Rate        | GPD (m <sup>3</sup> /d)           | 12,300 (46.6)    | 13,200 (50.0)    |
| Stabilized Salt Rejection | %                                 | 99.65            | 99.70            |
| Minimum Salt Rejection    | %                                 | 99.5             | 99.58            |
| Active Membrane Area      | ft <sup>2</sup> (m <sup>2</sup> ) | 400 (37)         | 400 (37)         |
| Feed Spacer Thickness     | mil                               | 34, low dP       | 34, low dP       |

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

- **Test Condition A:** 2,000 ppm NaCl, 150 psi (10.3 bar) 25°C (77°F), pH 7, Recovery 15%
- **Test Condition B (referential only):** 1,500 ppm NaCl, 150 psi (10.3 bar) 25°C (77°F), pH 7, Recovery 15%
- Permeate flow rates for individual elements may vary by ±20%

## Dimensions and Weight



| Dimensions: mm (in) |              |                | Wet Weight: kg (lbs) |
|---------------------|--------------|----------------|----------------------|
| A                   | B            | C              | 16 (35)              |
| Element Length      | Element O.D. | Core Tube I.D. |                      |
| 1,016 (40)          | 200 (7.9)    | 28.6 (1.125)   |                      |

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                          |                         | 1–13       |
| 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) | 75 (17)    |
| 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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