



# BW 400 AFR

Anti-fouling brackish water RO membrane with high salt rejection

## Key Features

- Intrinsic anti-fouling membrane property
- High salt rejection

## Main Benefits

- High permeate water quality
- Reduced cleaning frequency, chemical use, and membrane replacements
- Reduced energy consumption and total cost of plant ownership

## Ideal Applications

- Industrial process water
- Municipal drinking water
- Water reuse
- ZLD/MLD

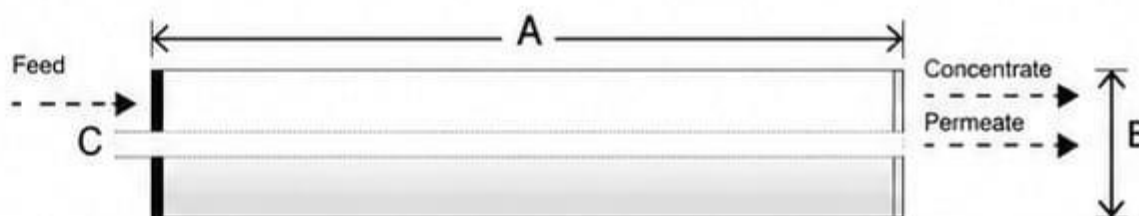
## Performance Specifications

| Item                      | Unit                              | Test Condition A | Test Condition B |
|---------------------------|-----------------------------------|------------------|------------------|
| Permeate Flow Rate        | GPD (m <sup>3</sup> /d)           | 10,500 (39.7)    | 11,000 (41.6)    |
| Stabilized Salt Rejection | %                                 | 99.6             | 99.65            |
| Minimum Salt Rejection    | %                                 | 99.5             | 99.56            |
| Active Membrane Area      | ft <sup>2</sup> (m <sup>2</sup> ) | 400 (37)         |                  |
| Feed Spacer Thickness     | mil                               | 34               |                  |

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

- Test Condition A: 2,000 ppm NaCl, 225 psi (15.5 bar), 25 °C (77 °F), pH 7, Recovery 15%
- Test Condition B (referential only): 1,500 ppm NaCl, 225 psi (15.5 bar), 25 °C (77 °F), pH 7, Recovery 15%
- Permeate flow rates for individual elements may vary by +25/-15%

## 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                          |                         | 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) | 75 (17)    |
| Maximum Pressure Drop (ΔP) for Each Element | psi (bar)               | 15 (1.0)   |



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