# WOCO Corp.

# Data Sheet



Brackish Water Reverse Osmosis (RO) Membranes

BW 440 ES Energy Saving

#### **Overview**

**WACO** Corp NanoH<sub>2</sub> $\bigcirc$ <sup>TM</sup> brackish water RO membranes serve various municipal and industrial applications and have been operating in the major utilities around the world. Incorporating innovative Thin Film Nanocomposite (TFN) technology, all **WACO** Corp membranes provide superior performance along with intrinsic anti-fouling property and are suitable for applications where consistent and reliable performance is a must.

BW ES membranes offer high permeability at low feed pressure, significantly reducing operating costs: suitable for low to medium salinity brackish water applications.

## **Product Specifications**

| Active Membrane | Permeate flow rate, GPD (m³/d) | Stabilized Salt | Minimum Salt | Feed Spacer, |
|-----------------|--------------------------------|-----------------|--------------|--------------|
| Area, ft² (m²)  |                                | Rejection, %    | Rejection, % | mil          |
| 440 (41)        | 11,550 (43.7)                  | 99.6            | 99.5         | 28           |

Test Conditions : 2,000 ppm NaCl at 25°C (77°F), 150 psi (10.3 bar), pH 7, Recovery 15%. Permeate flows for individual elements may vary +/-15%.

|          | A,       | B,       | C,       | Weight,   |
|----------|----------|----------|----------|-----------|
|          | mm (in.) | mm (in.) | mm (in.) | kg (Ibs.) |
| <u> </u> | 1,016    | 200      | 28.6     | 16        |
|          | (40)     | (7.9)    | (1.125)  | (35)      |

## **Operating Specifications**

| Max. Applied pressure                             | 600 psi (41 bar)              |
|---|-------------------------------|
| Max. Chlorine concentration                       | < 0.1 ppm                     |
| Max. Operating temperature                        | 45°C (113°F)                  |
| pH Range, Continuous (Cleaning)                   | 2-11 (2-12)                   |
| Max. Feedwater turbidity                          | 1.0 NTU                       |
| Max. Feedwater SDI (15 mins)                      | 5.0                           |
| Max. Feed flow                                    | 75 gpm (17 m <sup>3</sup> /h) |
| Max. Pressure drop ( $\Delta$ P) for each element | 15 psi (1.0 bar)              |

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