



**Water Technologies & Solutions**  
fact sheet

# OSMO\* BEV UF series

## ultrafiltration element for beverage and bottled water production

The OSMO BEV UF membrane element is engineered to provide beverage plants with consistent, high quality water for production of carbonated soft drinks, juices, and sport drinks. The OSMO BEV UF element creates an absolute barrier to cryptosporidium, giardia, and rejects color, and organics (naturally occurring tannins, humics, fulvics, etc.). The OSMO BEV UF element offers true multiple barrier security with the lowest energy consumption. It has a nominal MWCO of 6,000Da.

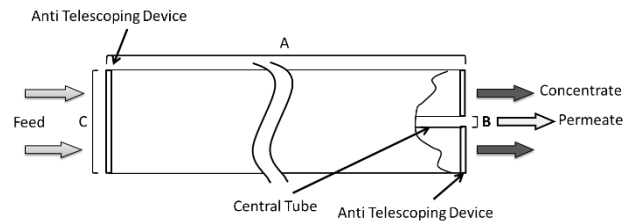
Features include a Full-Fit\* design that eliminates the stagnant zone associated with industrial fiberglass wrapped elements and their brine seals, which can act as a site for bacterial growth. The OSMO BEV UF element forms a flush-fit with the inner diameter of the membrane element housing, creating a self-cleaning effect. This design also offers less pressure resistance than an industrial fiberglass wrapped element, resulting in lower brake horsepower and substantial energy savings.

The OSMO BEV UF membrane is following a 100% Wet Test Quality Assurance. OSMO BEV UF series is certified to NSF/ANSI 61.

**Table 1: Element Specification**

<b>Membrane</b>	P-Series, Polyethersulfone
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Model	Active area ft <sup>2</sup> (m <sup>2</sup> )	Outer wrap	Part number
OSMO-BEV-UF-FF	350 (32.5)	Full-Fit*	1233034



**Figure 1: Element Dimensions Diagram – Female**

**Table 2: Dimensions and Weight**

Model	Dimensions, inches (cm)			Boxed
	A	B	C	Weight lbs (kg)
OSMO-BEV-UF-FF	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (16)

**Table 3: Operating and CIP parameters**

<b>Typical Operating Pressure</b>	30-60 psi (207-414 kPa)
<b>Typical Operating Flux</b>	10-20GFD (15-35LMH)
<b>Maximum Operating Pressure</b>	450 psi (3,102 kPa)
<b>Maximum Temperature</b>	Continuous operation: 122°F (50°C) Clean-In-Place (CIP): 122°F (50°C)
<b>Minimum Crossflow</b>	30gpm (6.8 m <sup>3</sup> /hr)
<b>pH range</b>	Continuous operation: 4.0-11.0, Clean-In-Place (CIP): 1.0-13.0 (1)
<b>Maximum Pressure Drop</b>	Over an element: 12 psi (83 kPa) Per housing: 50 psi (345 kPa)
<b>Chlorine Tolerance</b>	5,000 ppm days
<b>Feedwater</b>	NTU < 1 SDI < 5
<b>Recommended Single Element Recovery</b>	< 15%

(1) Refer to Cleaning Guidelines Technical Bulletin TB1194.