



Water Technologies & Solutions
fact sheet

BEV RO series

beverage and bottled water production

The BEV RO membrane element is engineered to provide beverage plants production water with a very high degree of total dissolved solids (TDS) removal, which is often required when producing purified water, teas, very low and sodium free products, and carbonated soft drinks. The BEV RO will produce treated water with lower levels of hardness, alkalinity, sodium, and chloride, and is also the element of choice on high TDS feed-water streams.

The BEV RO membrane element is tested and certified by NSF International against NSF/ANSI Standard 61 for material requirements only.

Features include a Full-Fit* or a Cage design that eliminates the stagnant zone associated with industrial FRP elements and their brine seals, which can act as a site for bacterial growth. This design also offers less pressure resistance than an industrial FRP element, resulting in lower brake horsepower and substantial energy savings.

The BEV RO membrane element is a high rejection element following a 100% Wet Test Quality Assurance.

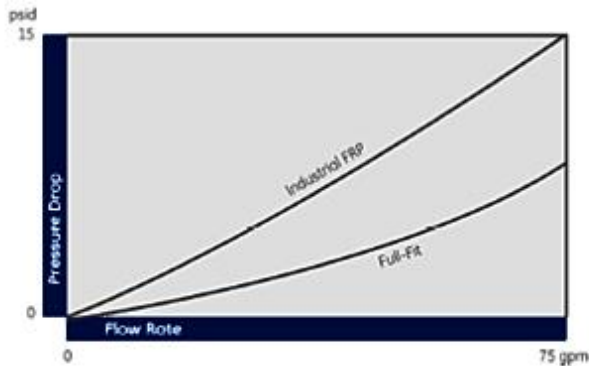


Figure 1: High Flow Rate at Low Pressure Drop

Table 1: Element Specification

Membrane	Thin-Film Membrane (TFM*)		
Model	Average permeate flow GPD (m ³ /day) (1,2)	Average NaCl rejection (1,2)	Minimum NaCl rejection (1,2)
BEV-RO-CG	10,000 (37.9)	99.0 %	98.5 %
BEV-RO-FF	10,000 (37.9)	99.0 %	98.5 %
BEV-RO-400-CG	11,000 (41.6)	99.0 %	98.5 %
BEV-RO-400-FF	11,000 (41.6)	99.0 %	98.5 %
BEV-RO-440-CG	12,000 (45.4)	99.0 %	98.5 %
BEV-RO-440-FF	12,000 (45.4)	99.0 %	98.5 %

(1) Average salt rejection after 24 hours of operation. Individual flow rate may vary ±20%.

(2) Testing conditions: 2,000ppm NaCl solution at 225psi (1,551kPa) operating pressure, 77 °F (25°C), pH 7.5 and 15% recovery.

Model	Active area ft ² (m ²)	Outer wrap	Part number
BEV-RO-CG	365 (33.9)	Cage	1266767
BEV-RO-FF	365 (33.9)	Full-Fit*	1233032
BEV-RO-400-CG	400 (37.2)	Cage	3158143
BEV-RO-400-FF	400 (37.2)	Full-Fit*	3158136
BEV-RO-440-CG	440 (40.9)	Cage	3158152
BEV-RO-440-FF	440 (40.9)	Full-Fit*	3158138

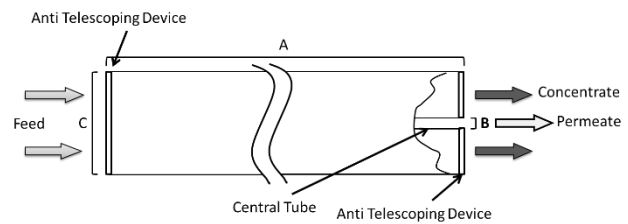


Figure 1 : Element Dimensions Diagram - Female

Table 2: Dimensions and Weight

Model	Type	Dimensions, inches (cm)			Boxed Weight lbs. (kg)
		A	B	C	
BEV-RO-***-**	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (16)

Table 3: Operating and CIP parameters

Typical Operating Pressure	200 psi (1,379 kPa)
Typical Operating Flux	10-20GFD (15-35 LMH)
Maximum Operating Pressure	600 psi (4,137 kPa)
Maximum Temperature	Continuous operation: 122°F (50°C) Clean-In-Place (CIP): 122°F (50°C)
Minimum Crossflow	30gpm (6.8 m ³ /hr)
pH Range	Continuous operation: 2.0-11.0, Clean-In-Place (CIP): 1.0-13.0 (1)
Maximum Pressure Drop	Over an element: 12 psi (83 kPa) Per housing: 50 psi (345 kPa)
Chlorine Tolerance	1,000+ ppm-hours, dechlorination recommended
Feedwater	NTU < 1 SDI ₁₅ < 5

(1) Please refer to Cleaning Guidelines Technical Bulletin TB1194EN

For Pricing Or Service (855) 787-4200 info@complete-water.com