

# UNISOL Brackish Water Reverse Osmosis Elements

## Spiral Wound Element FG BWFR Series

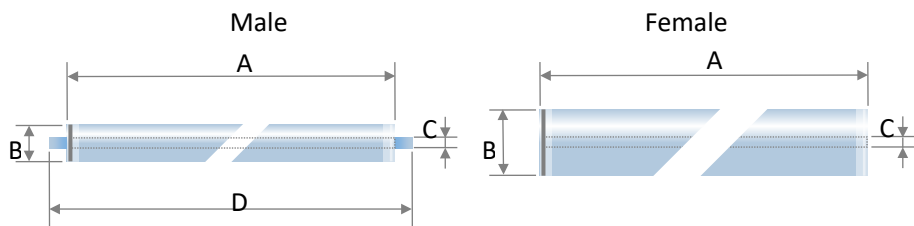
**Description** BWFR series membrane, It is specially designed for water treatment against biological and organic fouling. With the properties of fouling resistance, these elements have high rejection, high flux rates, and allows for most effective cleaning, renewing active membrane surface thus extending the longer operating life for tough water conditions.

<b>Specification</b>	Membrane	BWFR				
	Material	Polyamide				
	Outer wrap	FRP				
	Permeate Flow <sup>(1) (2)</sup>	Spacer	31mil (B)	46mil (C)	28mil (J)	34mil (M)
	GPD (m <sup>3</sup> /d)	4040	2,450 (9.3)	/	2,610 (9.9)	/
		8040	/	7,100 (27)	10,500 (40)	10,000 (38)
	Stabilized Salt Rejection <sup>(1)</sup>	99.6%				
	Minimum Salt Rejection <sup>(1)</sup>	99.4%				

<b>Limits</b>	Max Operating Pressure:	40 bar (580psi)
	Max Pressure Drop:	1 bar (14.5 psi) for individual element
	Max Operating Temperature:	50 °C (122 °F)
	Cleaning pH Range:	2 – 12
	Chlorine Concentration	< 0,1 ppm

<b>Area</b> ft <sup>2</sup> (m <sup>2</sup> )	Spacer thickness	FG BWFR 4040	FG BWFR 8040
	31 mil (B)	85 (7.9)	/
	46 mil (C)	/	270 (25)
	28 mil (J)	90 (8.4)	400 (37)
	34 mil (M)	/	365 (34)

**Dimensions**



Size mm (inch)	A <sup>[1]</sup>	∅B <sup>[2]</sup>	∅C <sup>[3]</sup>	D
4040-M (Male)	965(38)	99.4(3.9)	19(0.748)	1016(40)
4040-F (Female)	1016(40)	99.4(3.9)	16(0.629)	/
8040 (Female)	1016(40)	200.5(7.9)	28.9(1.138)	/

<sup>[1]</sup> Tolerance: -2~0mm.

<sup>[2]</sup> Tolerance: -2~0mm.

<sup>[3]</sup> 4040-M tolerance: 0~+0.1 mm. 4040-F tolerance: ±0.1mm. 8040 tolerance: -0.2~0 mm.

<sup>(1)</sup> Test condition: 2000ppm NaCl solution, 225psi (15.5bar), 77 °F (25 °C), pH 8;

<sup>(2)</sup> Permeate flow for individual elements may vary ± 20%

<sup>(3)</sup> For the purpose of improvement, specifications may be updated periodically