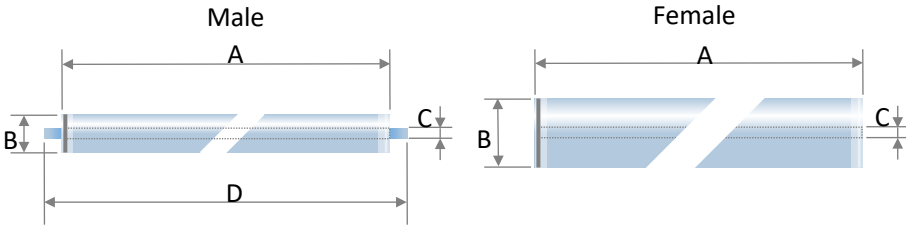


# UNISOL UNF454 Nanofiltration Elements

## Spiral Wound Element FG UNF454 Series

<b>Description</b>	All UNF454 elements contain an improved Nano-filtration membrane sheet designed to reject organics while passing monovalent salts, with MWCO in the range of 300-500 Daltons.			
<b>Specification</b>	Membrane	UNF454		
	Material	Piperazine-amide		
	Out Wrap	FRP		
	Permeate Flow <sup>(1) (2) (3)</sup>	FG UNF454 4040 C-M	1670 (6.4)	
	GPD (m <sup>3</sup> /d)	FG UNF454 8040 A	8170 (31.5)	
		FG UNF454 8040 B	9065 (34.4)	
		FG UNF454 8040 C	6950 (26.4)	
		FG UNF454 8040 D	7200 (27.3)	
	MgSO <sub>4</sub> Rejection <sup>(1) (3) (4)</sup>	>96%		
<b>Limits</b>	Max Operating Pressure:	40 bar (580psi)		
	Max Pressure Drop:	1 bar (14.5 psi)		
	Max. Operating Temperature:	55 °C (131 °F)		
	Max. Cleaning Temperature:	50 °C (122 °F)		
	Operating pH Range:	2 – 10		
	Cleaning pH Range:	1.8 – 11		
	Chlorine Concentration	< 0,1 ppm		
<b>Area</b>	Model type	Article number	Membrane area	
ft <sup>2</sup> (m <sup>2</sup> )	FG UNF454 4040 C-M	91112433	68 (6.3)	
	FG UNF454 8040 A	/	323 (30)	
	FG UNF454 8040 B	/	351 (32.6)	
	FG UNF454 8040 C	/	269 (25)	
	FG UNF454 8040 D	/	275 (25.5)	
<b>Dimensions</b>				
	Size mm (inch)	A <sup>[1]</sup>	øB <sup>[2]</sup>	øC <sup>[3]</sup>
	FG UNF454 4040 C-M	965 (38)	99.4 (3.9)	19 (0.748)
	FG UNF454 8040 A/B/C	1016 (40)	200.5 (7.9)	28.9 (1.138)
	FG UNF454 8040 D	1016 (40)	200.5 (7.9)	38.1 (1.50)
	<sup>[1]</sup> Tolerance: ±0.5mm. <sup>[2]</sup> Tolerance: -2/0mm. <sup>[3]</sup> 4040-M tolerance: 0~+0.1 mm. 8040 tolerance: -0.2~0 mm.			

<sup>(1)</sup> Test condition: 2000ppm MgSO<sub>4</sub> solution, 110psi (7.6bar), 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.

<sup>(4)</sup> Stabilized salt rejection is generally achieved within 24 – 48 hours of continuous use, depending upon feed water characteristics and operating condition.