

UNISOL UNF454 Nanofiltration Elements

Spiral Wound Element FG UNF454 Series

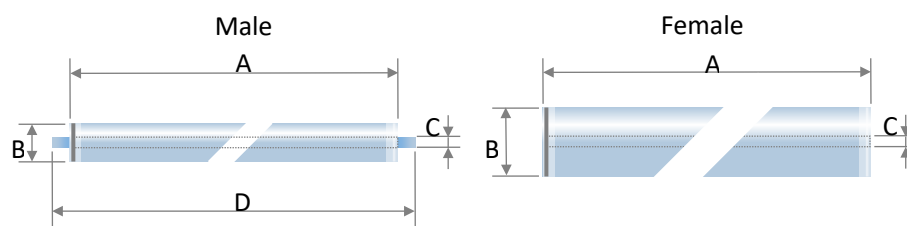
Description All UNF454 elements contain an improved Nano-filtration membrane sheet designed to reject organics while passing monovalent salts, with MWCO in the range of 300-500 Daltons.

Specification	Membrane	UNF454	
	Material	Piperazine-amide	
	Out Wrap	FRP	
	Permeate Flow ^{(1) (2) (3)}	FG UNF454 4040 C-M	1670 (6.4)
	GPD (m ³ /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 ₄ Rejection ^{(1) (3) (4)}	>96%	

Limits	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

Area ft ² (m ²)	Model type	Article number	Membrane area
	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)

Dimensions



Size mm (inch)	A ^[1]	øB ^[2]	øC ^[3]	D
FG UNF454 4040 C-M	965 (38)	99.4 (3.9)	19 (0.748)	1016 (40)
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)	/

^[1] Tolerance: -2~0mm.

^[2] Tolerance: -2~0mm.

^[3] 4040-M tolerance: 0~+0.1 mm. 8040 tolerance: -0.2~0 mm.

- ⁽¹⁾ Test condition: 2000ppm MgSO₄ solution, 110psi (7.6bar), 77 °F (25 °C), pH 8;
- ⁽²⁾ Permeate flow for individual elements may vary ± 20%.
- ⁽³⁾ For the purpose of improvement, specifications may be updated periodically.
- ⁽⁴⁾ Stabilized salt rejection is generally achieved within 24 – 48 hours of continuous use, depending upon feed water characteristics and operating condition.