ELEMENT SPECIFICATION SHEET

zUF50 - Medium Temp

2076 Zanker RD. San Jose, CA 95131 www.znanotech.com

Membrane	Pore Size	Surface Charge
Bioinspired Nanoceramic Polymer Composite	50 nm	Anionic

Operating Limits	Metric	US
Maximum Pressure	21 bar	300 PSI
Operating Temperature	60 C	140 F
Maximum Pressure Drop	1 PSI	15 PSI
Minimum Prefiltration Size	100 um	3.9 mils

Recommended Operating Parameters	Min	Max
Operating pH Range	2	12
Backwash Flow Rate	1.0x Permeate Flow	2.0x Permeate Flow
Backwash Flow Volume	2.0x PV Volume	N/A
Backwash TMP	-1.0 PSI	-5.0 PSI
Backwash Frequency	30 minutes	N/A
Recommended Operating TMP	1 PSI	20 PSI

- Operating parameters are based on operation with purified water.
- Application testing is required to verify element operation with specific feed streams.
- Contact zNano at sales@znanotech.com for a complimentary consultation on your application.

Recommend Cleaning Parameters	Min	Max
pH Range	1	12
Chlorine		200 ppm at pH $\geq$ 10.5
Detergent	100 ppm	30,000 ppm
Additional operating technical bulletins are available upon request.		

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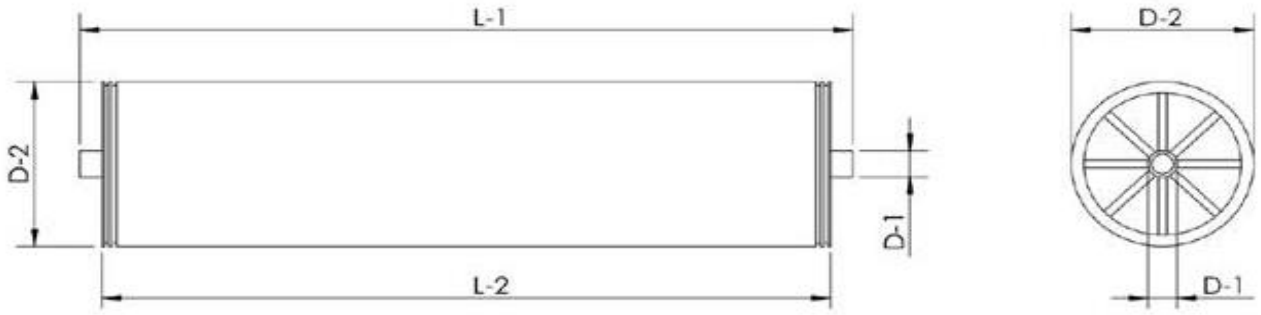
Feed Spacer	Diameter - Nominal	Membrane Active Area Sq. Ft.	Membrane Active Area Sq. Mtrs.	Minimum RO Water Flow (gpm) @ 2 psi TMP	Minimum RO Water Flow (gpm) @ 5 psi TMP
46 mil	4.0"	52	4.8	0.6	2.0
80 mil	4.0"	37	3.4	0.4	1.8
46 mil	8.0"	230	21.4	4.0	10.0
80 mil	8.0"	165	15.2	2.7	6.7

Membrane Dimensions		L - 1	L - 2	D - 2	D - 1
zProduct	kg (lbs)	mm (inches)	mm (inches)	mm (inches)	mm (inches)
4" Diameter	4 (9)	1067 (42)	1016 (40)	99 (3.9)	19.1 (0.75) OD
8" Diameter	16 (36)	N/A	1016 (40)	201 (7.9)	28.6 (1.125) ID



Diameter	4.0"	8.0"
Permeate Tube	Male	Female
Outer Wrap	Fiberglass Wrap	Fiberglass Wrap
Preservative	DRY or WET with Metabisulfite	DRY or WET with Metabisulfite

If you have any questions or concerns, please feel free to call. Thank you for your interest.

Adrian Brozell PhD

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