

AMI[®] MEMBRANES

CSL ULTRAFILTRATION MEMBRANE ELEMENTS

MEMBRANE ELEMENT DESCRIPTION

Applied Membranes CSL UF membrane elements are the latest in ultrafiltration technology, utilizing composite single-layer microstructure membrane sheet. These elements are superior in chemical compatibility and performance; offering substantial energy savings with ultra-low-pressure operating pressure.

SPIRAL-WOUND MEMBRANE ELEMENT PRODUCT SELECTION

Model No.	Size (Dia."x Length")	Outer Wrap	Nominal Pore Size
UPG-4040F-31	4" x 40"	FRP	0.05 µm
UPG-8040N-31	8" x 40"	Net	0.05 µm
UPG-8040N-31	8" x 40"	FRP	0.05 µm

ADVANTAGES

- High flux over time at lower pressure
- Longer life enabled by backwashing
- Exceptional permeate quality
- Less fouling

APPLICATIONS

- RO pre-filtration
- Oil/Water separation
- High flux/constrained footprint
- High solids separations

OPERATING LIMITS

Maximum Temperature:	135°F (57°C)	Maximum Feed Pressure:	70 psi (4.8 bar)
pH Range:	2-10	Maximum Differential Pressure:	35 psi (2.4 bar)

CHEMICAL COMPATIBILITY

Acids		Ethers	
30% Acetic Acid	★ Excellent	Petroleum Ether	★ Excellent
25% Hydrochloric Acid	★ Excellent	Tetrahydrofuran	★ Excellent
35% Nitric Acid	★ Excellent	Esters	
38% Sulfonic Acid	★ Excellent	Butyl Acetate	★ Excellent
Hydrocarbons		Ethyl Acetate	★ Excellent
Crude Oil	★ Excellent	Ketones	
Diesel	★ Excellent	Acetone	★ Excellent
Gasoline	★ Excellent	Methyl Ethyl Ketone	★ Excellent
Kerosene	★ Excellent	Alcohols	
Aromatic Hydrocarbons		Isopropanol (60%)	★ Excellent
Toluene	★ Excellent	Others	
Xylene	★ Excellent	Acetonitrile	★ Excellent
Alkali		Trichloroethylene	★ Excellent
NaOH (pH ≤ 10)	★ Excellent	Sodium Hypochlorite (<1%)	★ Excellent
NaOH (pH = 10)	Good*	Sodium Hypochlorite (>2%)	Good*
NaOH (pH > 10)	Caution*	<i>*Evaluation for specific use environment is recommended</i>	

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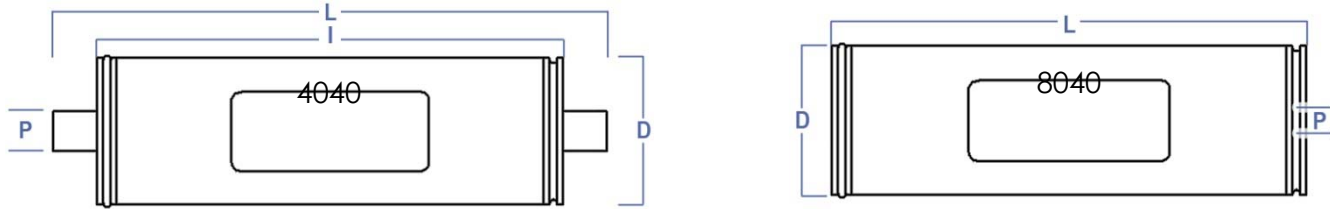
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DIMENSIONS



Nominal Size	L - Inches (mm)	l - Inches (mm)	D - Inches (mm)	D - Inches (mm)
4040	40 (1016)	38 (960)	3.9 (99)	0.75 (19) OD
8040	40 (1016)	n/a	7.9 (201)	1.125 (29) ID

IMPORTANT OPERATING INFORMATION

1. Elements must be kept sealed and moist when in storage. Drying out will irreversibly damage the membranes.
2. Prevent elements from freezing, or being exposed to direct sunlight.
3. Elements are shipped in sealed bags and contain a preservative solution of 1-2% (by weight) of sodium meta bisulfite (Food Grade).c
4. Discard the permeate from the first hour of operation.
5. Permeate flow varies with feed water temperature and pressure.
6. Membrane Elements for residential systems have a one year warranty from the date of shipment. Warranty is void for membrane elements fouled by suspended solids, precipitates or biological growth. Membrane warranty is also void if the membrane elements are improperly used, poorly maintained or improperly stored.
7. Applied Membranes' obligation under this warranty is limited to and shall be fully discharged by repairing or replacing any defective part FOB its works. Applied Membranes shall not be liable for damages or delay caused by defective material. Please refer to detailed warranty information.
8. Warranty claims for membrane elements must be made as detailed in Membrane Warranty Claims Bulletin.

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