



OMEXELL™ UF Components

SFP 2680 Pretreatment Module

Features

The OMEXELL™ ultrafiltration modules are made from high strength, hollow fiber membranes that have excellent features and benefits:

- 0.03 μ nominal pore diameter for removal of bacteria, viruses, and particulates including colloids to protect downstream processes such as RO
- PVDF polymeric hollow fibers for high strength and chemical resistance allows long membrane life
- Hydrophilic PVDF fibers for easy cleaning and wettability that help maintain long term performance
- Outside In flow configuration for high tolerance to feed solids that helps reduce the need for pretreatment processes
- U-PVC housing, helping to eliminate the need for costly pressure vessels

This module is ideal for systems with capacities greater than 50 m³/hr (220 gpm) and treating higher quality feed waters. The longer, 80 inch length module offers the highest effective membrane area per square foot of floor space. The longer, 6 inch diameter module allows a more compact design for space constrained installations.

The OMEXELL Ultrafiltration Modules are used for a wide variety of treatment applications such as surface water, seawater, industrial wastewaters, and secondary effluent wastewater.

Product Specifications

Product	Part Number	Membrane Area		Flow Range		Module Volume		Shipping Weight (water filled)	
		m ²	ft ²	m ³ /hr	gpm	liters	gallons	kg	lbs
SFP 2680	280932	44	474	1.8 – 5.3	7.9 – 23.0	20	5.3	33 (53)	73 (117)

Figure 1

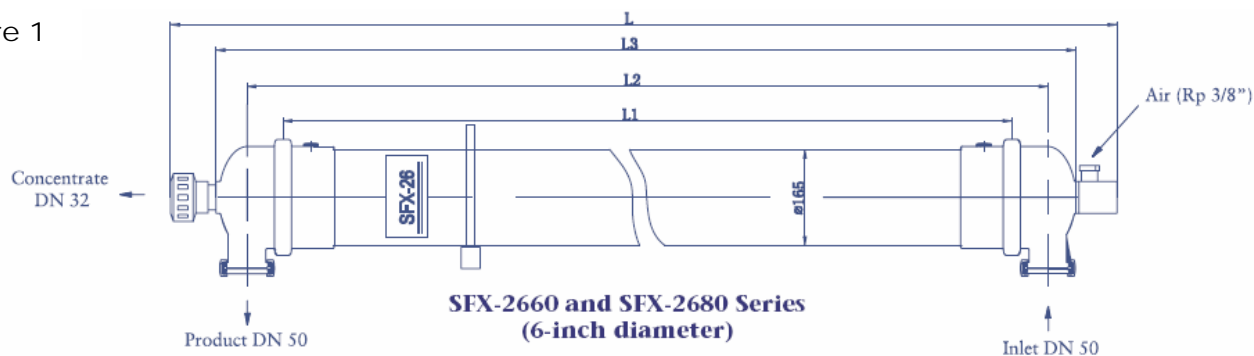
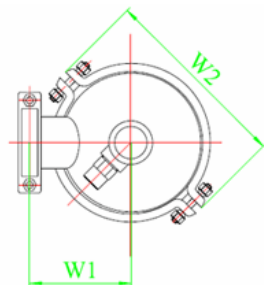


Figure 2



Properties	Length				Diameter	Width	
Units	L	L1	L2	L3	D	W1	W2
SI (mm)	2360	2000	2110	2210	165	125	250
US (inch)	92.9	78.7	83.1	87.0	6.5	4.9	9.8

Operating Parameters

	SI units	US units
Filtrate Flux @ 25°C	40 - 120 l/m ² /hr	24 - 70 gfd
pH, Operating	2 - 11	
Temperature	1 - 40°C	34 - 104°F
Max. Inlet Module Pressure	6.0 bar	87 psi
Max. Operating TMP	2.1 bar	30 psi
Max. Backwash Pressure	2.5 bar	36 psi
NaOCl (max)	2,000 mg/L	
TSS (max)	100 mg/L	
Turbidity (max)	300 ntu	
Particle Size	300 µ	
Flow Configuration	Outside In, Dead End Flow	

Important Information

Proper start-up of UF system is essential to prepare the membranes for operating service and to prevent membrane damage. Following the proper start-up sequence also helps ensure that system operating parameters conform to design specifications so that system water quality and productivity goals can be achieved. Before initiating system start-up procedures, membrane pretreatment, installation of the membrane modules, instrument calibration and other system checks should be completed. Please refer to the product technical manual.

Operation Guidelines

Avoid any abrupt pressure variations during start-up, shutdown, cleaning or other sequences to prevent possible membrane damage. Flush the UF system to remove shipping solution prior to start up. Remove residual air from the system prior to start up. Manually start the equipment. Target a permeate flow of 60% of design during initial operations. Depending on the application, permeate obtained from initial operations should be discarded.

General Information

If operating limits and guidelines given in this bulletin are not strictly followed, the limited warranty will be null and void.

To prevent biological growth during system shutdowns, it is recommended that preservative solution be injected into the membrane modules.

OMEXELL™ Ultrafiltration

For more information about OMEXELL Ultrafiltration, call the Dow Water Solutions business:

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Notice: The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on the complete system design and on the operation and maintenance of the system.

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