Product Data Sheet

DuPont Ultrafiltration Modules

Model SFP-2660 and SFD-2660

Description

The DuPont ultrafiltration (UF) modules are made from high strength, hollow fiber membranes that have excellent features and benefits:

- 0.03 µm 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 longer 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 an ideal choice for systems capacities of 50 m3/hr (220 gpm) or less. The shorter, 60 inch length module offers higher efficiencies over a wider range of feed water conditions compared to longer length modules. The smaller, 6 inch diameter module allows a more compact design for space constrained installations.

DuPont Ultrafiltration Modules can be used for a wide variety of treatment applications such as surface water, seawater, industrial wastewaters, and secondary effluent wastewater.

Typical Properties

			Membrane area		Module volume		Weight (empty/ water filled)	
Model	Type	Part #	m^2	ft^2	liters	gallons	kg	lbs
SFP-2660	Pretreatment	280931	33	355	16	4.2	25/41	55/90
SFD-2660	NSF/ANSI 61 Drinking water	324166	33	355	16	4.2	25/41	55/90

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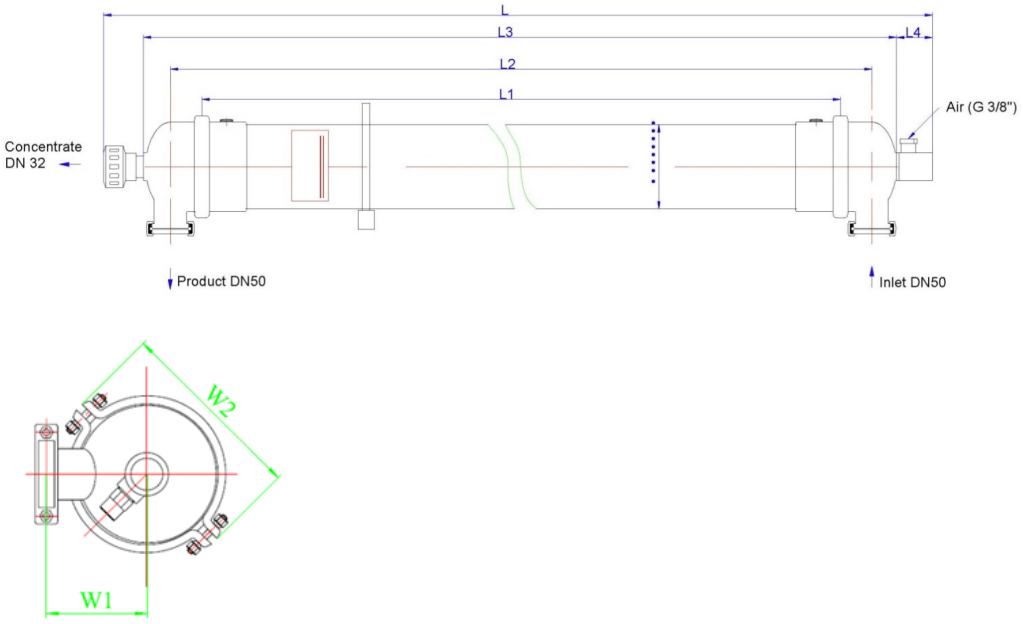
Dimensions

SFP and SFD 2660 (6-inch diameter)



Properties	Length				Diameter	Width	
Units	L	L1	L2	L3	D	W1	W2
SI (mm)	1863	1500	1610	1710	165	125	250
US (inch)	73.2	59.1	63.4	67.3	6.5	4.9	9.8

Suggested Operating Conditions

	SI units	US units
Filtrate Flux @ 25ºC	40 – 90 l/m^{2}hr	24 – 53 gfd
Flow Range Per Module[1]	1.3 – 3.0 m^3/hr	5.9 – 13.1 gpm
Temperature	1 – 40ºC	34 – 104ºF
Max. Inlet Module Pressure (@ 20ºC)	6.25 bar	93.75 psi
Max. Inlet Module Pressure (@ 40ºC)	4.75 bar	68.89 psi
Max. Operating TMP	2.1 bar	30 psi
Max Operating Air Scour Flow	12 nm^3/hr	7.1 scfm
Max Backwash Pressure	2.5 bar	36 psi
Operating pH	2- 11	
NaOCl (max.)	2,000 mg/L	
Particle Size (max.)	300 µm	
Flow Configuration	Outside in, dead end flow	
Expected Filtrate Turbidity	≤0.1 NTU	
Expected Filtrate SDI	≤2.5	

[1] Flow range represents DUPONT™ Ultrafiltration SFP-2660 and SFD-2660 Modules for filtrate flux range shown

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Important Information

Proper start-up of an ultrafiltration 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 Ultrafiltration Technical Manual (Form No. 45-D00874-en).

Operation Guidelines

Avoid any abrupt pressure variations during start-up, shutdown, cleaning or other sequences to prevent possible membrane damage. Flush the ultrafiltration system to remove shipping solution prior to start-up. Remove residual air from the system prior to start-up. Manually start the equipment. Depending on the application, filtrate obtained from initial operations should be discarded.

Please refer to the Ultrafiltration Technical Manual (Form No. 45-D00874-en).

General Information

- If operating limits and guidelines given in this bulletin are not strictly followed, the limited warranty will be null and void.
- To control biological growth during extended system shutdowns, it is recommended that storage solution be injected into the membrane modules.

Please refer to the Ultrafiltration Technical Manual (Form No. 45-D00874-en) and Technical Service Bulletins.

Product Stewardship

DuPont has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with DuPont products—from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

DuPont strongly encourages its customers to review both their manufacturing processes and their applications of DuPont products from the standpoint of human health and environmental quality to ensure that DuPont products are not used in ways for which they are not intended or tested. DuPont personnel are available to answer your questions and to provide reasonable technical support. DuPont product literature, including safety data sheets, should be consulted prior to use of DuPont products. Current safety data sheets are available from DuPont.

Please be aware of the following:

- 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.

Regulatory Note

NSF/ANSI 61 and 419 certified drinking water modules require specific conditioning procedures prior to producing potable water. Please refer to the Ultrafiltration Technical Manual (Form No. 45-D00874-en) flushing section for specific procedures. Drinking water modules may be subjected to additional regulatory restrictions in some countries. Please check local regulatory guidelines and application status before use and sales.

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