IntegraTec™

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Product Data Sheet | Ultrafiltration

DuPont™ IntegraTec™ SFP-2860, SFD-2860, SFP-2880, SFD-2880 Modules

Modules for Open Platform



Key Features

Proven DuPont™ PVDF fiber:

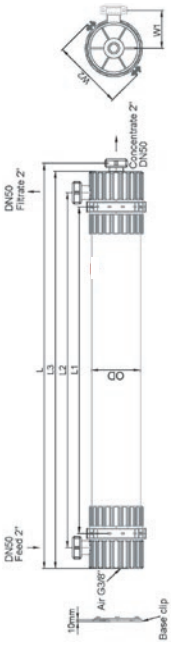
- High strength and excellent flexibility, ensuring long-lasting durability.
- Good hydrophilicity with easy cleaning and wettability, which enables stable performance over the long term.
- 0.03µm nominal pore size effectively removes colloidal particulate, bacteria, and virus.

Optimized Module Design:

- High operation recovery with high air scouring tolerance.
- Reduced chemical consumption with maintenance cleanings protocol.
- Robust materials for long lifetime.
- Easy installation and low maintenance.
- Open platform design to adapt with customer built skids.

Key Applications

- Industrial utility water.
- Industrial wastewater reuse.
- Municipal wastewater reuse.
- Municipal drinking water
- RO/NF pretreatment



Typical Properties

		Membrane area		Hold-Up Volume		Weight (empty/ water filled)	
Model	Type	m^2	ft^2	liters	gallons	kg	lbs
SFP-2860	Industrial	51	549	35	9.3	48/83	106/183
SFD-2860	NSF/ANSI 61 Drinking water	51	549	35	9.3	48/83	106/183
SFP-2880	Industrial	77	829	39	10.3	61/100	135/220
SFD-2880	NSF/ANSI 61 Drinking Water	77	829	39	10.3	61/100	135/220

Dimensions – SFP-2860, SFD-2860, SFP-2880, and SFD-2880 (8-inch)

Product	Units	Length				Diameter	Width	
		L	L1	L2	L3	D	W1	W2
SFP-2860 and SFD-2860	SI (mm)	1,863 ± 3.0	1,500 ± 1.5	1,633 ± 3.0	1,823 ± 3.0	225	180	342
	US (inch)	73.4 ± 0.1	59.1 ± 0.1	64.3 ± 0.1	71.8 ± 0.1	8.9	7.1	13.5
SFP-2880 and SFD-2880	SI (mm)	2,363 ± 3.0	2,000 ± 1.5	2,133 ± 3.0	2,323 ± 3.0	225	180	342
	US (inch)	93.0 ± 0.1	78.7 ± 0.1	84.0 ± 0.1	91.4 ± 0.1	8.9	7.1	13.5

NSF

Certified to NSF/ANSI 61

Form No. 45-D01050-en, Rev. 9
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Suggested Operating Conditions

General	Details	
Operating Temperature Range	1 - 40 °C	34 - 104 °F
Operating pH	2 - 11	
Cleaning pH	2 - 12	
Typical Filtration Trans-Membrane Pressure (TMP)	0.4 - 1.5 bar	5.8 - 21.8 psi
Typical Backwash TMP	0.6 - 2.0 bar	8.7 - 29.0 psi
Backwash Type	Air scour with liquid backwash	
Backwash Flux	40 - 100 L/(m²h)	23.5-58.8 gfd
Backwash Flow [1]	2.0 - 7.7 m³/h	9.0 - 34.0 gpm
Operating Limits (Maximum)		
Rate of Pressure Change	0.5 bar/sec	7.3 psi/sec
Inlet Pressure	6.25 bar	90.7 psi
Filtration TMP	2.1 bar	30.5 psi
Backwash TMP	2.5 bar	36 psi
Filtration Flux	110 L/(m²h)	64.5 gfd
Filtration Flow	5.6 m³/h (SFP-2860, SFD-2860) 8.5 m³/h (SFP-2880, SFD-2880)	24.6 gpm (SFP-2860, SFD-2860) 37.4 gpm (SFP-2880, SFD-2880)
Backwash Flux	120 L/(m²h)	70.6 gfd
Particle Size	300 µm	
Exposure NaOCl	≤ 1,500,000 ppm x h	
Recommended max. instantaneous exposure NaOCl	2,000 ppm	

[1] Backwash Flow range represents DuPont™ Ultrafiltration SFP-2860, SFD-2860, SFP-2880, and SFD-2880 Modules for backwash flux range shown.

General Information

- Avoid any abrupt pressure variations during start-up, operation, shutdown, cleaning or other sequences to prevent possible membrane damage. The maximum pressure change allowable is (0.5 bar/s).
- For assembly please refer to the latest version of the DuPont™ IntegraTec™ Open Platforms PVDF-UF Modules Assembly Manual (Form No.45-D02507-en).
- If operating limits and guidelines given in this document are not strictly followed, any warranty will be null and void.
- To control biological growth during extended system shutdowns, it is recommended that storage solution be introduced into the membrane modules.

Regulatory Note

- Certified drinking water modules require specific conditioning procedures prior to producing potable water. For operating parameters, please refer to the DuPont™ IntegraTec™ Process and Design Manual (Form No. 45-D00874-en).
- Drinking water modules may be subjected to additional regulatory restrictions in some countries. Please check local regulatory guidelines and application status before use.
- Flushing needs to be done according to the DuPont™ IntegraTec™ Open Platforms PVDF-UF Modules Assembly Manual (Form No. 45-D02507-en).

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