

Product Data Sheet

P series Pressurized PVDF UF Module



DuPont™ IntegraTec™ XP 77 IP IG

Modules for Rack Solution

(previously DuPont™ IntegraPac™ IP-77XP)

Key Features

- Proven XP™ Hydrophilic PVDF Fiber:
 - Superior fouling and chlorine resistance.
 - High colloidal particulate, bacteria, and virus log removal rate.
 - Excellent filtration permeability.
 - Easy cleaning and wettability.
- Optimized Module Design:
 - Innovative end cap to direct coupling of modules in IP skids with simple assembly and scalability.
 - High active filtration area to maximize productivity.
 - 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.

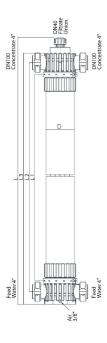
Key Applications

- High recovery and large size filtration in:
 - Industrial utility water.
 - Industrial wastewater reuse.
 - Municipal wastewater filtration.
 - RO pretreatment.









Module Specification

General			
Part No / GMID	12091628	12091628	
Mode of Filtration	Out-In Pressurized	Out-In Pressurized	
Membrane Type	Hollow fiber	Hollow fiber	
Membrane Material	PVDF (Polyvinyliden	PVDF (Polyvinylidene Fluoride)	
Membrane Pore Size	0.03 µm	0.03 μm	
Module Operating Process	Dead-end	Dead-end	
Other Wetted Module Components	Polyurethane, uPVC	Polyurethane, uPVC, EPDM, and ABS	
Dimensions			
Active Membrane Area	77 m²	829 ft ²	
Module Length Overall (L)	2,488 ± 3.0 mm	98.0 ± 0.1 inch	
Module Length (L3)	2,364 ± 3.0 mm	93.1 ± 0.1 inch	
Module Length (L2)	2,189 ± 3.0 mm	86.2 ± 0.1 inch	
Module Length (L1)	2,000 ± 3.0 mm	78.7 ± 0.1 inch	
Module Diameter (D)	225 mm	8.9 inch	
Module Width (W1)	360 mm	14.2 inch	
Module Width (W2)	342 mm	13.5 inch	
Weight and Volume			
Shipping Weight	81 kg	178 lbs.	
Weight Empty	66 kg	146 lbs.	
Weight Filled	119 kg	262 lbs.	
Hold-Up Volume Feed (Clean-In-Place = CIP)	38 L	10.0 gal	
Hold-Up Volume Membrane Structure (CIP)	14 L	3.7 gal	
Hold-Up Volume Filtrate (CIP)	12 L	3.2 gal	

Suggested Operating Conditions

1 - 40 °C	34 - 104 °F
2 - 11	
2 - 12	
0.4 - 1.5 bar	5.8 - 21.8 psi
0.6 - 2.0 bar	8.7 - 29.0 psi
Air scour with liquid backwash	
100 L/(m²h)	58.8 gfd
7.7 m³h	34.0 gpm
0.5 bar/sec	7.3 psi/sec
6.25 bar (at 20 °C)	90.7 psi
2.1 bar	30.5 psi
2.5 bar	36 psi
110 L/(m²h)	64.5 gfd
8.5 m³h	37.4 gpm
120 L/(m²h)	70.6 gfd
300 µm	
≤ 1,500,000 ppm x h	
2,000 ppm	
	2 - 11 2 - 12 0.4 - 1.5 bar 0.6 - 2.0 bar Air scour with liquid ba 100 L/(m²h) 7.7 m³h 0.5 bar/sec 6.25 bar (at 20 °C) 2.1 bar 2.5 bar 110 L/(m²h) 8.5 m³h 120 L/(m²h) 300 μm ≤ 1,500,000 ppm x h

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 <u>DuPont™</u> IntegraTec™ PVDF-UF Out-In P Series IntegraPac™ Rack Assembly Manual (Form No. 45-D01776-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, storage solution has to 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 <u>DuPont™ IntegraTec™ P Series</u> <u>PVDF-UF Out-In Process and Design Manual</u> (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 <u>DuPont™</u>
 <u>IntegraTec™ PVDF-UF Out-In P Series IntegraPac™ Rack</u>
 Assembly Manual (Form No. 45-D01776-en).



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