



Product Data Sheet P series Pressurized PVDF UF Module



LENNTECH
WATER TREATMENT SOLUTIONS

DuPont™ IntegraTec™ XP 51

Modules for Open Platform

(previously DuPont™ IntegraFlux™ SFD-2860XP)

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:
 - Open platform design to fit customer built skids.
 - Short module design to suit height restricted or containerized installation.
 - 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.

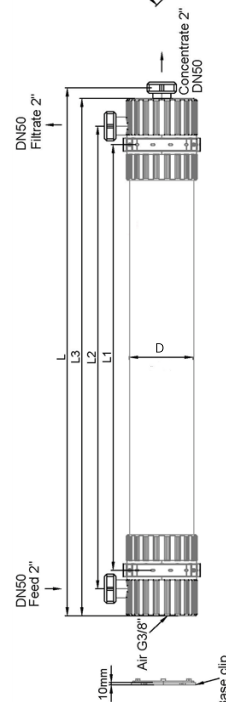
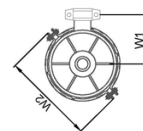
Key Applications

- High recovery, height restricted or containerized filtration in:
 - Municipal drinking water.
 - Industrial utility water.
 - Industrial wastewater reuse.
 - Municipal wastewater filtration.
 - RO pretreatment.



Module Specification

General		
Part No / GMID	12091625	
Mode of Filtration	Out-In Pressurized	
Membrane Type	Hollow fiber	
Membrane Material	PVDF (Polyvinylidene Fluoride)	
Membrane Pore Size	Approx. 0.03 μm	
Module Operating Process	Dead-end	
Other Wetted Module Components	Polyurethane, polyethylene, and polyamide	
Dimensions		
Active Membrane Area	51 m²	549 ft²
Module Length Overall (L)	1,860 ± 3.0 mm	73.2 ± 0.1 inch
Module Length (L3)	1,820 ± 3.0 mm	71.7 ± 0.1 inch
Module Length (L2)	1,630 ± 3.0 mm	64.2 ± 0.1 inch
Module Length (L1)	1,500 ± 3.0 mm	59.1 ± 0.1 inch
Module Diameter (D)	225 mm	8.9 inch
Module Width (W1)	180 mm	7.1 inch
Module Width (W2)	342 mm	13.5 inch
Feed / Filtrate port DN50 (F)	51 mm	2 inch
Weight and Volume		
Shipping Weight	60 kg	132 lbs.
Weight Empty	48 kg	106 lbs.
Weight Filled	83 kg	183 lbs.
Hold-Up Volume Feed (Clean-In-Place = CIP)	30 L	7.9 gal
Hold-Up Volume Membrane Structure (CIP)	9 L	2.4 gal
Hold-Up Volume Filtrate (CIP)	8 L	2.1 gal



Certified to
NSF/ANSI 61

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	100 L/(m ² h)	58.8 gfd
Backwash Flow	5.1 m ³ h	22.4 gpm
Operating Limits (Maximum)		
Rate of Pressure Change	0.5 bar/sec	7.3 psi/sec
Inlet Pressure	6.25 bar (at 20 °C)	90.7 psi
Filtration TMP	2.1 bar	30.5 psi
Backwash TMP	2.5 bar	36 psi
Filtration Flux	110 L/(m ² h)	64.5 gfd
Filtration Flow	5.6 m ³ h	24.8 gpm
Backwash Flux	120 L/(m ² h)	70.6 gfd
Particle Size	300 µm	
Exposure NaOCl	≤ 1,500,000 ppm x h	
Recommended max. instantaneous exposure NaOCl	2,000 ppm	

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™ PVDF-UF Out-In P Series Modules for Open Platforms 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, 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 [DuPont™ IntegraTec™ P Series PVDF-UF Out-In 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™ PVDF-UF Out-In P Series Modules for Open Platforms Assembly Manual](#) (Form No. 45-D02507-en).



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