IntegraTec™

DUPONT™

Product Data Sheet | Ultrafiltration

DuPont™ IntegraTec™ XP 52 IC Module

Modules for Multi Element Vessel

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:

- Unique end cap to suit integration in Multi-Element Vessel configuration.
- High active filtration area to minimize footprint.
- High operation recovery with high air scouring tolerance.
- Reduced chemical consumption with maintenance cleanings protocol.
- Hybrid submerged-pressurized operation mode for high pressure systems.
- Robust materials for long lifetime.
- Easy installation and low maintenance..

Key Applications

High pressure, outdoor, compact footprint and large scale filtration in:

- Oil feed water.
- Large size desalination RO pretreatment.
- Large size municipal drinking water filtration.
- RO pretreatment.

XP FIBER



Module Specification

General		
Part No / GMID	12091652	
Mode of Filtration	Out-In Pressurized	
Membrane Type	Hollow fiber	
Membrane Material	PVDF (Polyvinylidene Fluoride)	
Membrane Pore Size	0.03 µm	
Module Operating Process	Dead-end	
Other Wetted Module Components	Polyurethane, uPVC, and EPDM	
Dimensions		
Active Membrane Area	52 m²	560 ft²
Module Length Overall (L2)	2,265 ± 2.0 mm	89.2 ± 0.08 inch
Module Length (L1)	2,119 ± 1.5 mm	83.4 ± 0.06 inch
Module Diameter (D1)	178 mm	7.0 inch
Module Diameter (D2)	160 mm	6.3 inch
Module Diameter (D3)	170 mm	6.7 inch
Module Diameter (D4)	80 mm	3.1 inch
Weight and Volume		
Shipping Weight	30 kg	66 lbs.
Weight Empty	26 kg	57 lbs.
Weight Filled	52 kg	115 lbs.
Hold-Up Volume Feed (Clean-In-Place = CIP)	19 L	5.0 gal
Hold-Up Volume Membrane Structure (CIP)	10 L	2.6 gal
Hold-Up Volume Filtrate (CIP)	6 L	1.6 gal

NSF

Certified to NSF/ANSI/CAN 61

Form No . 45-D03629-en, Rev. 3
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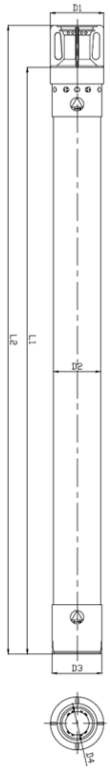
Suggested Operating Conditions

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	100 L/(m²h)	58.8 gfd
Backwash Flow	5.2 m³/h	22.9 gpm
Operating Limits (Maximum)		
Rate of Pressure Change	0.5 bar/sec	7.3 psi/sec
Inlet Pressure	Please refer to the pressure vessel manufacturer.	
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	5.7 m³/h	25.3 gpm
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	



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.
- 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™ MEV Modules Process & Design Manual (Form No. 45-D04596-en).
- Drinking water modules may be subjected to additional regulatory restrictions in some countries. Please check local regulatory guidelines and application status before use.

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