IntegraTec™

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Product Data Sheet | Ultrafiltration

DuPont™ IntegraTec™ XP 55 UXA - End Cap Assembly Type I

Modules for Open Platform

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:

- Three different end cap options for various retrofits of old plants.
- 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

Retrofit old filration plants in:

- Industrial utility water.
- Industrial wastewater reuse.
- Municipal wastewater filtration.
- RO pretreatment.

XP FIBER



Module Specification

General		
Part No / GMID	12091655 (for module body) & 12099259 (for end caps TYPE I)	
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, EPDM, and ABS	
Dimensions		
Active Membrane Area	55 m²	592 ft²
Module Length Overall L	2,418±3.0 mm	95.2±0.1 inch
Module Length L1	2,130±1.5 mm	83.9±0.1 inch
Module Length L2	143 mm	5.6 inch
Module Length L3	214 mm	8.4 inch
Module Length L4	2,316±3 mm	91.2±0.1 inch
Module Diameter (D)	165 mm	6.5 inch
Module Width (W1)	150 mm	5.9 inch
Module Width (W2)	250 mm	9.8 inch
Feed / Filtrate port DN50 (d)	60 mm	2.4 inch
Weight and Volume		
Shipping Weight	35 kg	77 lbs.
Weight Empty	29 kg	64 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)	9 L	2.4 gal
Hold-Up Volume Filtrate (CIP)	6 L	1.6 gal

NSF

Certified to NSF/ANSI/CAN 61 & NSF/ANSI 419

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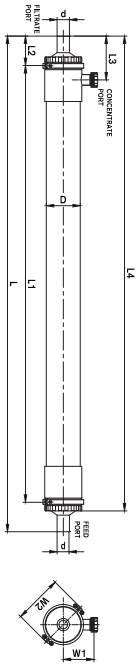
Suggested Operating Conditions

General	Details	
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	5.5 m³/h	24.2 gpm
Operating Limits (Maximum)		
Rate of Pressure Change	0.5 bar/sec	7.3 psi/sec
Inlet Pressure	3.0 bar (at 20 °C)	43.5 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	6.1 m³/h	26.7 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	

Type I



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™ XP 55 UXA Modules PVDF-UF for Open Platforms Assembly Manual (Form No.45-D04608-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™ XP 55 UXA Modules PVDF-UF for Open Platforms Assembly Manual (Form No. 45-D04608-en).

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