DuPont™ IntegraTec™ modules

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Product Data Sheet | Ultrafiltration

DuPont™ IntegraTec™ OG-50 Modules

Modules for Open Platform

Key Features

Proven Hydrophilic PVDF fiber:

- Superior chlorine resistance.
- High colloidal particulate, bacteria, and virus log removal rate.
- 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.
- Hybrid submerged-pressurized operation mode for high pressure systems.
- Robust materials for long lifetime.
- Easy installation and low maintenance.
- Corrosion free with no metal parts.

Key Applications

High pressure and compact footprint filtration in:

- Offshore oil feed water.



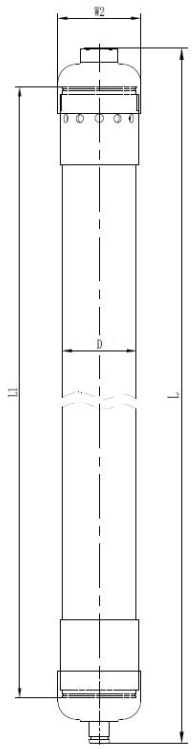
Module Specification

General		
Part No / GMID	11103359 (47mm bottom cap spigot), 12100797 (70mm bottom cap spigot)	
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	50 m²	538 ft²
Module Length Overall (L) – 43mm spigot	2,206 ± 3.5 mm	86.9 ± 0.14 inch
Module Length Overall (L) – 70mm spigot	2,229 ± 3.5 mm	87.76 ± 0.14 inch
Module Length (L1)	2,019 ± 1.5 mm	79.5 ± 0.06 inch
Module Diameter (D)	160 mm	6.3 inch
Module Width (W2)	178 mm	7.0 inch
Weight and Volume		
Shipping Weight	29 kg	64 lbs.
Weight Empty	29 kg	55 lbs.
Weight Filled	50 kg	110 lbs.
Hold-Up Volume Feed (Clean-In-Place = CIP)	18 L	4.8 gal
Hold-Up Volume Membrane Structure (CIP)	9 L	2.4 gal
Hold-Up Volume Filtrate (CIP)	6 L	1.6 gal

Form No . 45-D04495-en, Rev. 2
January 2026

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	5.0 m³/h	22.0 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/(m²h)	64.5 gfd
Filtration Flow	5.5 m³/h	24.3 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 (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.

Have a question? Contact us at:
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