Inge

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Product Data Sheet | Ultrafiltration

DuPont™ Inge™ MB 0.9 XL 80 OP Module

Module for Open Platform

Key Features

Proven Multibore™ PES Fibers:

- Exceptional physical strength and chemical resistance.
- High colloidal particulate, bacteria and virus log removal rate.
- Excellent filtration permeability.
- Optional coagulation can enhance the removal of algae and organics.

Optimized Module Design:

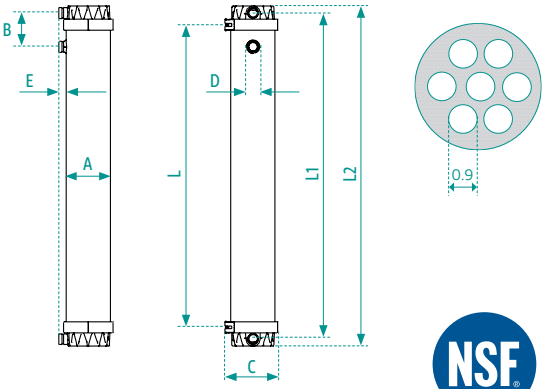
- Open platform design to fit customer built skids.
- Robust materials for long lifetime.
- Easy installation and low maintenance.
- All wetted parts corrosion free

Key Applications

- Municipal drinking water.
- Desalination RO pretreatment.
- Industrial utility water.
- Industrial wastewater reuse.
- Ideal for large systems.

Module Specification

General		
Part Number / GMID	IN-0109 / 12071521	
Mode of Filtration	In-Out Pressurized	
Membrane Type	Multibore™	
Membrane Material	PESm	
Nominal Membrane Pore Size	0.02 µm	
Module Operating Process	Dead-end	
Housing Material	PVC-U, white	
End Cap Material	PVC-U, grey	
End Cap Coupling Material	SS (EPDM sealing)	
Dimensions		
Active Membrane Area	80 m²	861 ft²
Module Length (L)	1,720 ± 1.5 mm	67.7 inch
Distance Top / Bottom Feed Port (L1)	1,834 ± 3.0 mm	72.2 inch
Length with End Caps (L2)	1,914 ± 3.0 mm	75.4 inch
Module Diameter (A)	250 ± 1.5 mm	9.8 inch
Distance Feed Top Port - Filtrate Port (B)	190 ± 1.5	7.5 inch
Outer Diameter End Cap Coupling Maximum (C)	295 mm	11.6 inch
Protruding Part of the Port (E)	40 ± 1 mm	1.6 inch
Filtrate / Backwash Port (D)	50.8 mm	2 inch
Weight and Volume		
Shipping Weight	54 kg	120 lbs.
Weight Empty	54 kg	120 lbs.
Weight Filled	109 kg	240 lbs.
Hold-Up Volume Feed (CIP)	23 L	6.0 gal
Hold-Up Volume Membrane Structure (CIP)	20 L	4.5 gal
Hold-Up Volume Filtrate (CIP)	24 L	6.4 gal



NSF

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

Form No. 45-D04375-en, Rev. 5
January 2026

Suggested Operating Conditions

General	Details	
Operating Temperature Range	1 - 45 °C	34 - 113 °F
Operating pH	2 - 12	
Cleaning pH	1 - 13	
Typical Filtration TMP	0.1 - 0.6 bar	1.5 - 8.7 psi
Typical Backwash TMP	0.3 - 2.0 bar	4.4 - 29.0 psi
Backwash Flux	230 L/(m²h)	135 gfd
Backwash Flow	18.4 m³h	81.0 gpm
Operating Limits (Maximum)		
Rate of Temperature Change	5 °C/min	9 °F/min
Inlet Pressure at max 40°C	5 bar	73 psi
Rate of Pressure Change	0.5 bar/sec	7.3 psi/sec
Filtration TMP	1.5 bar	22 psi
Backwash TMP	3.0 bar	44 psi
Filtration Flux	180 L/(m²h)	106 gfd
Filtration Flow	14.4 m³h	63.4 gpm
Backwash Flux	300 L/(m²h)	176 gfd
Particle Size	300 µm	
Exposure NaOCl*	≤ 500,000 ppm x h (at pH ≥ 9.5)	
Concentration NaOCl	2,000 ppm	

*NaOCl exposure limits at lower pH are dependent on water type and are project specific.

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™ Inge™ Open Platforms PES-UF Modules Assembly Manual (Form No. 45-D02231-en).
- If operating limits and guidelines given in this bulletin are not strictly followed, any warranty will be null and void.
- To control biological growth during extended system shutdowns, a storage solution must be introduced into the membrane modules. For Detailed information, see the DuPont™ Inge™ PES-UF Module Preservation Instruction (Form No. 45-D02946-en).

Regulatory Note

- Certified drinking water modules require specific conditioning procedures prior to producing potable water. For operating parameters, please refer to the DuPont™ Inge™ Process and Design Guidelines (Form No. 45-D02234-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™ Inge™ PES-UF Module Rinsing Procedure (Form No. 45-D02947-en).

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Have a question? Contact us at:
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Form No. 45-D04375-en, Rev. 5
January 2026