

DuPont™ Inge™ MB PRO L 64 S Module

Modules Installed in Inge™ Submerged MB Rack

Key Features

Innovative Multibore™ PRO 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.

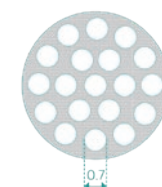
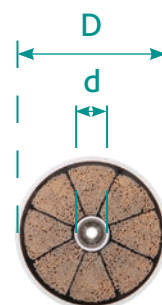
Optimized Module Design:

- Ideal design to integrate in Submerged MB Rack.
- Enhanced active filtration area.

Key Applications

- Municipal drinking water.
- Desalination RO pretreatment.
- Ideal to replace submerged filtration systems.

MB PRO



Module Specification

General		
Part Number / GMID	12117634	
Mode of Filtration	In-Out Submerged	
Membrane Type	Multibore™ PRO	
Membrane Material	PESm	
Nominal Membrane Pore Size	0.02 μm	
Module Operating Process	Dead-end	
Housing Material	PVC-U, white	
Dimensions		
Active Membrane Area	64 m²	689 ft²
Module Length (L)	1,537.5 mm	60.5 inch
Module Diameter (D)	220 mm	8.7 inch
Filtrate Diameter (d)	42.6 mm	1.7 inch
Weight and Volume		
Shipping Weight (Module Only)	29 kg	65 lbs.
Weight Empty	29 kg	65 lbs.
Weight Filled	66 kg	146 lbs.
Hold-Up Volume Feed (CIP)	12 L	3.2 gal
Hold-Up Volume Membrane Structure (CIP)	12 L	3.2 gal
Hold-Up Volume Filtrate (CIP)	21 L	5.6 gal

Suggested Operating Conditions

General	Details	
Operating Temperature Range	1 - 45 °C	34 - 113 °F
Operating pH	2 - 12	
Cleaning pH	1 - 13	
Typical Filtration Trans-Membrane Pressure (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/(m ² h)	135 gfd
Backwash Flow	14.7 m ³ h	64.7 gpm
Operating Limits (Maximum)		
Rate of Temperature Change	5 °C/min	9 °F/min
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	140 L/(m ² h)	82 gfd
Filtration Flow	8.9 m ³ h	39.2 gpm
Backwash Flux	250 L/(m ² h)	147 gfd
Particle Size	230 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™ Submerged Multibore™ Rack Assembly Manual](#) (Form No. 45-D04906-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 Manual for Submerged Modules](#) (Form No. 45-D04909-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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