Product Data Sheet
P series | Pressurized PES UF Module

DuPont™ IntegraTec™ MB 55 V

Modules for Open Platform

(previously dizzer L 0.9 MB 55 Vertical)

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 adapt with customer built skids.
- Large active filtration area.

Key Applications

- Municipal drinking water.
- Desalination RO pretreatment.
- Industrial utility water.

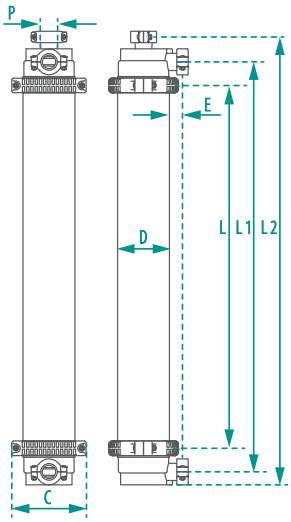
This product is designed as a replacement option for alternative UF systems.



Module Specification

General		
Part Number / GMID	IN-2111 / 121071526	
Mode of Filtration	In-Out Pressurized	
Membrane Type	Multibore™	
Membrane Material	PESm	
Nominal Membrane Pore Size	0.02 µm	
Module Operating Process	Dead-end	
End Cap Material	PVC-U, grey	
End Cap Coupling Material	Composite Coupling (EPDM sealing)	
Housing Material	PVC-U, white	
Dimensions		
Active Membrane Area	55 m²	592 ft²
Module Length (L)	1,537.5 ± 1.5 mm	60.5 inch
Distance Top / Bottom Feed Port (L1)	1,737.5 ± 1.5 mm	68.4 inch
Length with End Caps (L2)	1,898 ± 3.0 mm	74.7 inch
Module Diameter (D)	220 ± 1.5 mm	8.7 inch
Filtrate Collector Inner Diameter (d)	42.60 mm	1.7 inch
Outer Diameter End Cap Coupling Maximum (C)	315 mm	12.4 inch
Protruding Part of the Port (E)	55 ± 1 mm	2.2 inch
Filtrate/Backwash Port (P)	63.5 mm	2.5 inch
Weight and Volume		
Shipping Weight (Module Only)	40 kg	88 lbs.
Weight Empty	40 kg	88 lbs.
Weight Filled	87 kg	192 lbs.
Hold-Up Volume Feed (CIP)	20 L	5.3 gal
Hold-Up Volume Membrane Structure (CIP)	14 L	3.7 gal
Hold-Up Volume Filtrate (CIP)	18 L	4.7 gal

End caps are not pre-assembled on delivery





Certified to NSF/ANSI/CAN 61

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a DuPont brand

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Suggested Operating Conditions

General	Details	
Operating Temperature Range	1 - 40 °C	34 - 104 °F
Operating pH	3 - 11	
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	12.6 m³h	55.5 gpm
Operating Limits (Maximum)		
Rate of Temperature Change	5 °C/min	9 °F/min
Inlet Pressure (20 - 40 °C)	3 bar	44 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	9.9 m³h	43.6 gpm
Backwash Flux	300 L/(m²h)	176 gfd
Particle Size	300 µm	
Exposure NaOCl	≤ 250,000 ppm x h (at pH ≥ 9.5)	
Concentration NaOCl	500 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.
- For assembly please refer to the DuPont™ IntegraTec™ Pressurized UF In-Out P Series Modules for Open Platforms Assembly Instructions (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. Detailed information is given in the DuPont™ IntegraTec™ Pressurized UF Out-In Module Preservation Instruction Manual (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™ IntegraTec™ Pressurized UF In-Out P Series 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™ IntegraTec™ Pressurized UF Out-In Module Rinsing Procedure (Form No. 45-D02947-en).

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