



DuPont™ IntegraTec™ MB 80

Modules for Open Platform

(previously dizzyer XL 0.9 MB 80 W)

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.
 - Large active filtration area.
 - Robust materials for long lifetime.
 - Easy installation and low maintenance.
 - All wetted parts corrosion free.

Key Applications

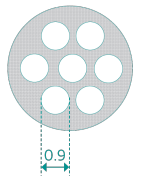
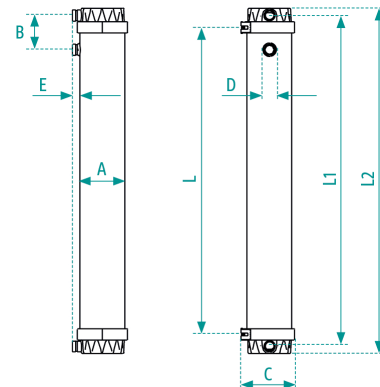
- Municipal drinking water.
- Desalination RO pretreatment.
- Industrial utility water.
- Water reuse.
- Ideal for large systems.

Module Specification

General	
Part Number	IN-0109
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 m ²	861 ft ²
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	58 kg	128 lbs.
Weight Empty	58 kg	128 lbs.
Weight Filled	110 kg	243 lbs.
Hold-Up Volume Feed (CIP)	23 L	6.1 gal
Hold-Up Volume Membrane Structure (CIP)	20 L	5.3 gal
Hold-Up Volume Filtrate (CIP)	17 L	4.5 gal



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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/(m ² h)	135 gfd
Backwash Flow	18.4 m ³ h	81.0 gpm
Operating Limits (Maximum)		
Rate of Temperature Change	5 °C/min	9 °F/min
Inlet Pressure (20 - 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/(m ² h)	106 gfd
Filtration Flow	14.4 m ³ h	63.4 gpm
Backwash Flux	300 L/(m ² h)	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 latest version of 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. For detailed information, see the [DuPont™ IntegraTec™ Pressurized UF In-Out 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 In-Out Module Rinsing Procedure](#) (Form No. 45-D02947-en).



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