



DuPont™ IntegraTec™ MB 55

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

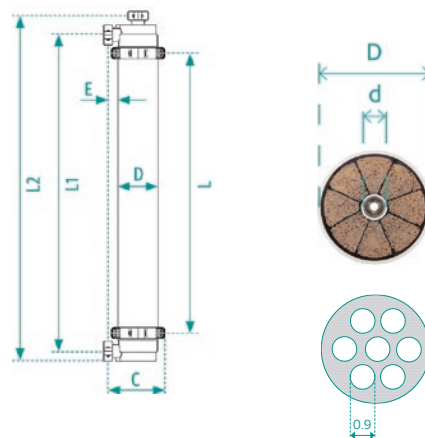
Part Number	IN-2111
Mode of Filtration	In-Out Pressurized
Membrane Type	Multibore™
Membrane Material	PESm
Nominal Membrane Pore Size	0.02 µm
Module Operating Process	Dead-end
Housing Material	PVC-U, white

Dimensions

Active Membrane Area	55 m ²	592 ft ²
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)	312.5 mm	12.3 inch
Port Length (E)	55 ± 1 mm	2.2 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)	15 L	4.0 gal



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	140 L/(m²h)	82 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).



info@lenntech.com Tel. +31-152-610-900
www.lenntech.com Fax. +31-152-616-289

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