

# DuPont<sup>™</sup> IntegraTec<sup>™</sup> 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**

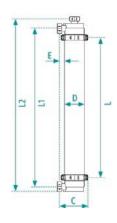
- · Municipal drinking water.
- Desalination RO pretreatment.
- Industrial utility water.

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



## **Module Specification**

IN-2111	
In-Out Pressurized	
Multibore™	
PESm	
0.02 μm	
Dead-end	
PVC-U, white	
55 m²	592 ft²
1,537.5 ± 1.5 mm	60.5 inch
1,737.5 ± 1.5 mm	68.4 inch
1,898 ± 3.0 mm	74.7 inch
220 ± 1.5 mm	8.7 inch
42.60 mm	1.7 inch
312.5 mm	12.3 inch
55 ± 1 mm	2.2 inch
40 kg	88 lbs.
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87 kg	192 lbs.
20 L	5.3 gal
14 L	3.7 gal
15 L	4.0 gal
	In-Out Pressurized  Multibore™  PESm  0.02 μm  Dead-end  PVC-U, white  55 m²  1,537.5 ± 1.5 mm  1,737.5 ± 1.5 mm  220 ± 1.5 mm  42.60 mm  312.5 mm  55 ± 1 mm  40 kg  40 kg  87 kg  20 L  14 L





## **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 <u>DuPont™ IntegraTec™</u>

  <u>Pressurized UF In-Out P Series Modules for Open Platforms</u>

  <u>Assembly Instructions (Form No. 45-D02231-en).</u>
- 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 <u>DuPont™ IntegraTec™ Pressurized UF Out-In Module</u> 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 <u>DuPont™ IntegraTec™</u> <u>Pressurized UF In-Out P Series Process and Design Guidelines</u> (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 <u>DuPont™</u>
  <u>IntegraTec™ Pressurized UF Out-In Module Rinsing Procedure</u>
  (Form No. 45-D02947-en).



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