



# DuPont™ IntegraTec™ MB 40

## Modules for Open Platform

(previously dizzer XL 1.5 MB 40 W)

### Key Features

#### Proven Multibore™ PES Fibers:

- Exceptional physical strength and chemical resistance.
- High colloidal particulate, bacteria and virus log removal rate.
- Unique design for high solids loads.
- Optional coagulation can enhance the removal of algae and organics.

#### Optimized Module Design:

- Open platform design to fit customer built skids.
- Robust materials for long lifetime.
- Easy installation and low maintenance.
- All wetted parts corrosion free.

### Key Applications

- Municipal wastewater.
- Industrial water.
- Wastewater reuse.
- Ideal for height restricted or containerized filtration solution.

## Module Specification

### General

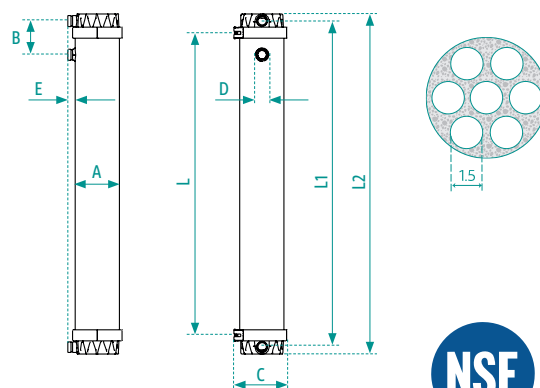
|                            |                    |  |
|----------------------------|--------------------|--|
| Part Number / GMID         | IN-0069 / 12071517 |  |
| Mode of Filtration         | In-Out Pressurized |  |
| Membrane Type              | Multibore™         |  |
| Membrane Material          | 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                        | 40 m <sup>2</sup> | 431 ft <sup>2</sup> |
| Module Length (L)                           | 1,485 ± 1.5 mm    | 58.5 inch           |
| Distance Top / Bottom Feed Port (L1)        | 1,599 ± 3.0 mm    | 63.0 inch           |
| Length with End Caps (L2)                   | 1,679 ± 3.0 mm    | 66.1 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                         | 46 kg | 101 lbs. |
| Weight Empty                            | 46 kg | 101 lbs. |
| Weight Filled                           | 95 kg | 209 lbs. |
| Hold-Up Volume Feed (CIP)               | 20 L  | 5.3 gal  |
| Hold-Up Volume Membrane Structure (CIP) | 16 L  | 4.2 gal  |
| Hold-Up Volume Filtrate (CIP)           | 18 L  | 4.8 gal  |



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NSF/ANSI 61 and 419

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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               | 9.2 m³h                         | 40.5 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/(m²h)                     | 106 gfd        |
| Filtration Flow             | 7.2 m³h                         | 31.7 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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