



# DuPont™ IntegraTec™ MB PRO 95

## Modules for Open Platform

### Key Features

- Innovative Multibore™ PRO 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.
  - Enhanced active filtration area to minimize footprint.
  - Robust materials for long lifetime.
  - Easy installation and low maintenance.
  - All wetted parts corrosion free.

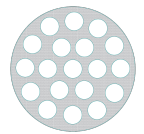
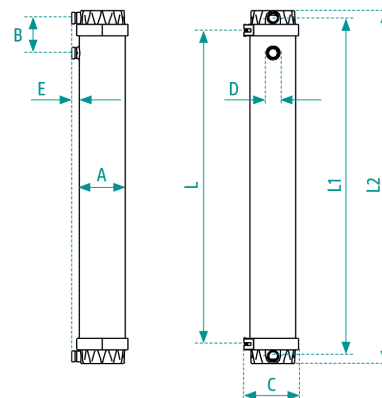
### Key Applications

- Municipal drinking water.
- Desalination RO pretreatment.
- Ideal for large systems.



### Module Specification

| General                                     |                    |                       |
|---|--------------------|-----------------------|
| Part Number                                 | IN-0122            |                       |
| Mode of Filtration                          | In-Out Pressurized |                       |
| Membrane Type                               | Multibore™ PRO     |                       |
| 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                        | 95 m <sup>2</sup>  | 1,023 ft <sup>2</sup> |
| 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)                   | 22 L               | 5.7 gal               |
| Hold-Up Volume Membrane Structure (CIP)     | 18 L               | 4.8 gal               |
| Hold-Up Volume Filtrate (CIP)               | 21 L               | 5.4 gal               |



**MB PRO**

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Form No. 45-D04342-en, Rev. 0

## 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 <sup>2</sup> h)        | 135 gfd        |
| Backwash Flow               | 21.8 m <sup>3</sup> h           | 96.0 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             | 140 L/(m <sup>2</sup> h)        | 82 gfd         |
| Filtration Flow             | 13.3 m <sup>3</sup> h           | 58.6 gpm       |
| Backwash Flux               | 250 L/(m <sup>2</sup> h)        | 147 gfd        |
| Particle Size               | 230 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. Detailed information is given in 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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