

# DuPont™ Inge™ MB PRO XL 82 TRS Module

Module for TRS Rack

## 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.

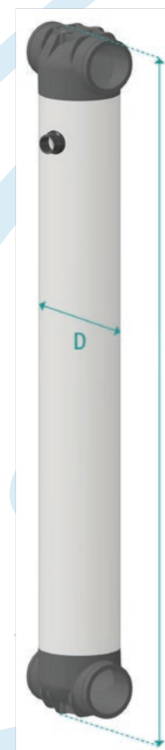
### Optimized Module Design:

- Innovative end-cap design to suit TRS Rack concept with simple assembly and scalability.
- 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 height restricted or containerized filtration solution.

MB PRO



## Module Specification

### General

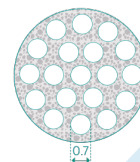
|                            |                    |  |
|----------------------------|--------------------|--|
| Part Number / GMID         | IN-0125 / 12102358 |  |
| Mode of Filtration         | In-Out Pressurized |  |
| Membrane Type              | Multibore™ PRO     |  |
| Membrane Material          | PESm               |  |
| Nominal Membrane Pore Size | 0.02 µm            |  |
| Module Operating Process   | Dead-end           |  |
| Housing Material           | PVC-U, white       |  |

### Dimensions

|                                     |                   |                     |
|-------------------------------------|-------------------|---------------------|
| Active Membrane Area                | 82 m <sup>2</sup> | 883 ft <sup>2</sup> |
| Module Length Including T-Piece (L) | 1,879 mm          | 74.0 inch           |
| Module Diameter (D)                 | 250 mm            | 9.8 inch            |

### Weight and Volume

|                                                |        |          |
|------------------------------------------------|--------|----------|
| Shipping Weight                                | 49 kg  | 107 lbs. |
| Weight Empty (Module and Corresponding Frame)  | 62 kg  | 137 lbs. |
| Weight Filled (Module and Corresponding Frame) | 127 kg | 281 lbs. |
| Hold-Up Volume Feed (CIP)                      | 29 L   | 7.8 gal  |
| Hold-Up Volume Membrane Structure (CIP)        | 16 L   | 4.2 gal  |
| Hold-Up Volume Filtrate (CIP)                  | 32 L   | 8.5 gal  |


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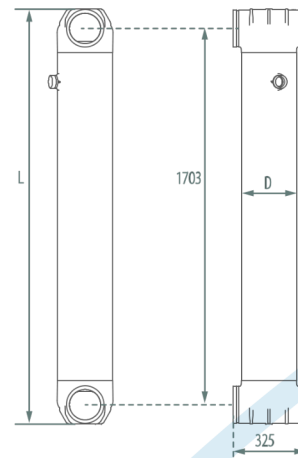
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### Suggested Operating Conditions

| General                     |                                 | Details        |
|-----------------------------|---------------------------------|----------------|
| Operating Temperature Range | 1 - 45 °C                       | 34 - 113 °F    |
| Operating pH                | 2 - 12                          |                |
| 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               | 18.9 m³/h                       | 83 gpm         |
| Operating Limits (Maximum)  |                                 |                |
| Rate of Temperature Change  | 5 °C/min                        | 9 °F/min       |
| Inlet Pressure at max 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/(m²h)                     | 82 gfd         |
| Filtration Flow             | 11.5 m³/h                       | 51 gpm         |
| Backwash Flux               | 250 L/(m²h)                     | 147 gfd        |
| Particle Size               | 230 µm                          |                |
| Exposure NaOCl*             | ≤ 500,000 ppm x h (at pH ≥ 9.5) |                |
| Concentration NaOCl         | 2,000 ppm                       |                |

\*NaOCl exposure limits at lower pH are dependent on water type and are project specific.



### TRS Rack Configuration

| Number of Modules                   | TRS Rack Unit | Part Number <sup>1</sup> | Length <sup>2</sup> |       | Membrane Area |        |
|-------------------------------------|---------------|--------------------------|---------------------|-------|---------------|--------|
|                                     |               |                          | mm                  | ft    | m²            | ft²    |
| Single-Sided Connection to Manifold |               |                          |                     |       |               |        |
| 2 Rows Configuration                |               |                          |                     |       |               |        |
| 4                                   | TRS-4-2-1     | 12071170                 | 655                 | 2.15  | 328           | 3,531  |
| 6                                   | TRS-6-2-1     | 12071171                 | 985                 | 3.23  | 492           | 5,296  |
| 8                                   | TRS-8-2-1     | 12071172                 | 1,315               | 4.31  | 656           | 7,061  |
| 10                                  | TRS-10-2-1    | 12071173                 | 1,645               | 5.40  | 820           | 8,827  |
| 12                                  | TRS-12-2-1    | 12071174                 | 1,975               | 6.48  | 984           | 10,592 |
| 14                                  | TRS-14-2-1    | 12071175                 | 2,305               | 7.56  | 1,148         | 12,357 |
| 16                                  | TRS-16-2-1    | 12071176                 | 2,635               | 8.65  | 1,312         | 14,123 |
| 18                                  | TRS-18-2-1    | 12071177                 | 2,965               | 9.73  | 1,476         | 15,888 |
| 20                                  | TRS-20-2-1    | 12071178                 | 3,295               | 10.81 | 1,640         | 17,653 |
| 22                                  | TRS-22-2-1    | 12071179                 | 3,625               | 11.89 | 1,804         | 19,419 |
| 24                                  | TRS-24-2-1    | 12071180                 | 3,955               | 12.98 | 1,968         | 21,184 |
| 26                                  | TRS-26-2-1    | 12071181                 | 4,285               | 14.06 | 2,132         | 22,949 |
| 28                                  | TRS-28-2-1    | 12071182                 | 4,615               | 15.14 | 2,296         | 24,715 |
| 30                                  | TRS-30-2-1    | 12071183                 | 4,945               | 16.22 | 2,460         | 26,480 |

1. Rack parts without modules.

2. Length excluding central header manifold. Tolerance to ISO 2768-1c.

| Number of Modules                   | TRS Rack Unit | Part Number <sup>1</sup> | Length <sup>2</sup> |       | Membrane Area |        |
|-------------------------------------|---------------|--------------------------|---------------------|-------|---------------|--------|
|                                     |               |                          | mm                  | ft    | m²            | ft²    |
| Single-Sided Connection to Manifold |               |                          |                     |       |               |        |
| 4 Rows Configuration                |               |                          |                     |       |               |        |
| 16                                  | TRS-16-4-1    | 12071189                 | 1,315               | 4.31  | 1,312         | 14,123 |
| 20                                  | TRS-20-4-1    | 12071190                 | 1,645               | 5.40  | 1,640         | 17,653 |
| 24                                  | TRS-24-4-1    | 12071191                 | 1,975               | 6.48  | 1,968         | 21,184 |
| 28                                  | TRS-28-4-1    | 12071192                 | 2,305               | 7.56  | 2,296         | 24,715 |
| 32                                  | TRS-32-4-1    | 12071193                 | 2,635               | 8.65  | 2,624         | 28,245 |
| 36                                  | TRS-36-4-1    | 12071194                 | 2,965               | 9.73  | 2,952         | 31,776 |
| 40                                  | TRS-40-4-1    | 12071195                 | 3,295               | 10.81 | 3,280         | 35,307 |
| 44                                  | TRS-44-4-1    | 12071196                 | 3,625               | 11.89 | 3,608         | 38,837 |
| 48                                  | TRS-48-4-1    | 12071197                 | 3,955               | 12.98 | 3,936         | 42,368 |
| 52                                  | TRS-52-4-1    | 12071198                 | 4,285               | 14.06 | 4,264         | 45,899 |
| 56                                  | TRS-56-4-1    | 12071199                 | 4,615               | 15.14 | 4,592         | 49,429 |
| 60                                  | TRS-60-4-1    | 12071200                 | 4,945               | 16.22 | 4,920         | 52,960 |