



# DuPont™ IntegraTec™ MB 80 TR

## Modules for T-Rack™

(previously dizzer XL 0.9 MB 80 WT)

### 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:

- Innovative end-cap design to suit T-Rack™ concept with simple assembly and scalability.
- Robust materials for long lifetime.
- Easy installation and low maintenance.
- All wetted parts corrosion free.

### Key Applications

- Municipal drinking water.
- Desalination RO pretreatment.
- Industrial utility water.
- Industrial wastewater reuse.
- Ideal for large systems.

## Module Specification

### General

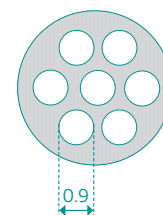
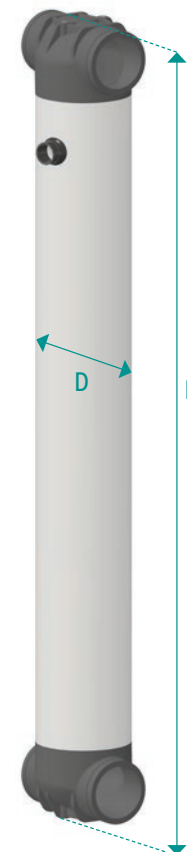
|                            |                    |  |
|----------------------------|--------------------|--|
| Part Number / GMID         | IN-5109 / 12071530 |  |
| Mode of Filtration         | In-Out Pressurized |  |
| Membrane Type              | Multibore™         |  |
| Membrane Material          | PESm               |  |
| Nominal Membrane Pore Size | 0.02 µm            |  |
| Module Operating Process   | Dead-end           |  |
| Housing Material           | PVC-U, white       |  |

### Dimensions

|                                     |                   |                     |
|-------------------------------------|-------------------|---------------------|
| Active Membrane Area                | 80 m <sup>2</sup> | 861 ft <sup>2</sup> |
| Module Length Including T-Piece (L) | 2,101 mm          | 82.7 inch           |
| Module Diameter (D)                 | 250 mm            | 9.8 inch            |

### Weight and Volume

|                                                |        |          |
|------------------------------------------------|--------|----------|
| Shipping Weight (Module Only)                  | 54 kg  | 120 lbs. |
| Weight Empty (Module and Corresponding Frame)  | 67 kg  | 147 lbs. |
| Weight Filled (Module and Corresponding Frame) | 133 kg | 292 lbs. |
| Hold-Up Volume Feed (CIP)                      | 33 L   | 8.7 gal  |
| Hold-Up Volume Membrane Structure (CIP)        | 20 L   | 5.4 gal  |
| Hold-Up Volume Filtrate (CIP)                  | 31 L   | 8.3 gal  |



Certified to NSF/ANSI/CAN 61  
& NSF/ANSI 419

powered by

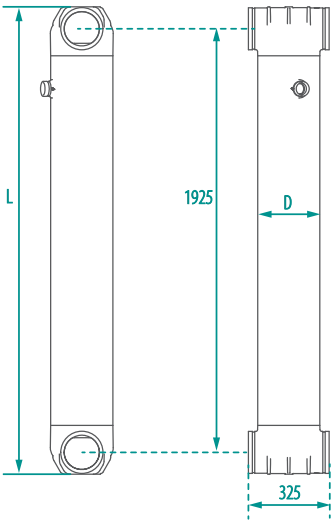


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Suggested Operating Conditions

| 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               | 18.4 m³/h                       | 81.0 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             | 180 L/(m²h)                     | 106 gfd        |
| Filtration Flow             | 14.4 m³/h                       | 63.4 gpm       |
| Backwash Flux               | 300 L/(m²h)                     | 176 gfd        |
| Particle Size               | 300 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.



T-Rack™ Configuration

| Number of Modules                   | T-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                                   | TR-4-2-1     | 12071552                 | 655                 | 2.15  | 320           | 3,444  |
| 6                                   | TR-6-2-1     | 12071553                 | 985                 | 3.23  | 480           | 5,167  |
| 8                                   | TR-8-2-1     | 12071554                 | 1,315               | 4.31  | 640           | 6,889  |
| 10                                  | TR-10-2-1    | 12071555                 | 1,645               | 5.40  | 800           | 8,611  |
| 12                                  | TR-12-2-1    | 12071557                 | 1,975               | 6.48  | 960           | 10,333 |
| 14                                  | TR-14-2-1    | 12071078                 | 2,305               | 7.56  | 1,120         | 12,056 |
| 16                                  | TR-16-2-1    | 12071558                 | 2,635               | 8.65  | 1,280         | 13,778 |
| 18                                  | TR-18-2-1    | 12071559                 | 2,965               | 9.73  | 1,440         | 15,500 |
| 20                                  | TR-20-2-1    | 12071560                 | 3,295               | 10.81 | 1,600         | 17,222 |
| 22                                  | TR-22-2-1    | 12071561                 | 3,625               | 11.89 | 1,760         | 18,944 |
| 24                                  | TR-24-2-1    | 12071563                 | 3,955               | 12.98 | 1,920         | 20,667 |
| 26                                  | TR-26-2-1    | 12071091                 | 4,285               | 14.06 | 2,080         | 22,389 |
| 28                                  | TR-28-2-1    | 12071092                 | 4,615               | 15.14 | 2,240         | 24,111 |
| 30                                  | TR-30-2-1    | 12071093                 | 4,945               | 16.22 | 2,400         | 25,833 |

1. Rack parts without modules.  
2. Length excluding central header manifold. Tolerance to ISO 2768-1c.

| Number of Modules                   | T-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                |                         |                          |                     |       |               |         |
| 32                                  | TR-32-4-1               | 12071122                 | 2,635               | 8.65  | 2,560         | 27,556  |
| 36                                  | TR-36-4-1               | 12071096                 | 2,965               | 9.73  | 2,880         | 31,000  |
| 40                                  | TR-40-4-1               | 12071097                 | 3,295               | 10.81 | 3,200         | 34,444  |
| 44                                  | TR-44-4-1               | 12071098                 | 3,625               | 11.89 | 3,520         | 37,889  |
| 48                                  | TR-48-4-1               | 12071099                 | 3,955               | 12.98 | 3,840         | 41,333  |
| 52                                  | TR-52-4-1               | 12071100                 | 4,285               | 14.06 | 4,160         | 44,778  |
| 56                                  | TR-56-4-1               | 12071101                 | 4,615               | 15.14 | 4,480         | 48,222  |
| 60                                  | TR-60-4-1               | 12071102                 | 4,945               | 16.22 | 4,800         | 51,667  |
| Double-Sided Connection to Manifold |                         |                          |                     |       |               |         |
| 4 Rows Configuration                |                         |                          |                     |       |               |         |
| 64                                  | TR-64-4-2               | 12071123                 | 5,270               | 17.29 | 5,120         | 55,111  |
| 68                                  | TR-68-4-2 <sup>3</sup>  | 12071124                 | 5,600               | 18.37 | 5,440         | 58,555  |
| 72                                  | TR-72-4-2               | 12071105                 | 5,930               | 19.46 | 5,760         | 62,000  |
| 76                                  | TR-76-4-2 <sup>3</sup>  | 12071106                 | 6,260               | 20.54 | 6,080         | 65,444  |
| 80                                  | TR-80-4-2               | 12071107                 | 6,590               | 21.62 | 6,400         | 68,889  |
| 84                                  | TR-84-4-2 <sup>3</sup>  | 12071108                 | 6,920               | 22.70 | 6,720         | 72,333  |
| 88                                  | TR-88-4-2               | 12071109                 | 7,250               | 23.79 | 7,040         | 75,778  |
| 92                                  | TR-92-4-2 <sup>3</sup>  | 12071110                 | 7,580               | 24.87 | 7,360         | 79,222  |
| 96                                  | TR-96-4-2               | 12071111                 | 7,910               | 25.95 | 7,680         | 82,667  |
| 100                                 | TR-100-4-2 <sup>3</sup> | 12071112                 | 8,240               | 27.03 | 8,000         | 86,111  |
| 104                                 | TR-104-4-2              | 12071113                 | 8,570               | 28.12 | 8,320         | 89,555  |
| 108                                 | TR-108-4-2 <sup>3</sup> | 12071114                 | 8,900               | 29.20 | 8,640         | 93,000  |
| 112                                 | TR-112-4-2              | 12071115                 | 9,230               | 30.28 | 8,960         | 96,444  |
| 116                                 | TR-116-4-2 <sup>3</sup> | 12071116                 | 9,560               | 31.36 | 9,280         | 99,889  |
| 120                                 | TR-120-4-2              | 12071117                 | 9,890               | 32.45 | 9,600         | 103,333 |

1. Rack parts without modules.

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

3. Asymmetric module arrangement.

## 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 Assembly Instructions for T-Rack™ Manual](#) (Form No. 45-D02230-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. For Detailed information, see 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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