

# DuPont™ IntegraTec™ MB PRO 95 TR

Modules for T-Rack™

## Key Features

### Innovative Multibore™ PRO PES Fibers:

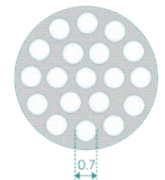
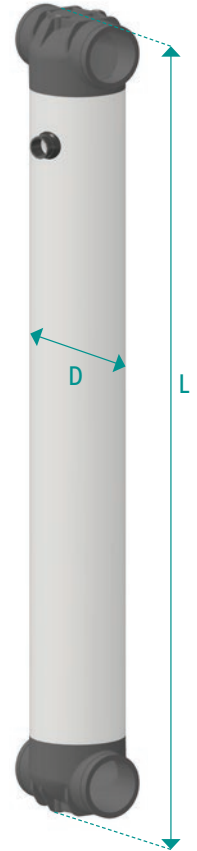
- Exceptional physical strength and chemical resistance.
- High colloidal particulate, bacteria and virus log removal rate.
- Excellent filtration permeability.
- Optional coagulation can enhance the removal of algae and organics.

### Optimized Module Design:

- Innovative end-cap design to suit T-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 large systems.



Certified to  
NSF/ANSI 61 and 419

**MB PRO**

powered by



a DuPont brand

## Module Specification

### General

Part Number / GMID	IN-5122 / 12071531	
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

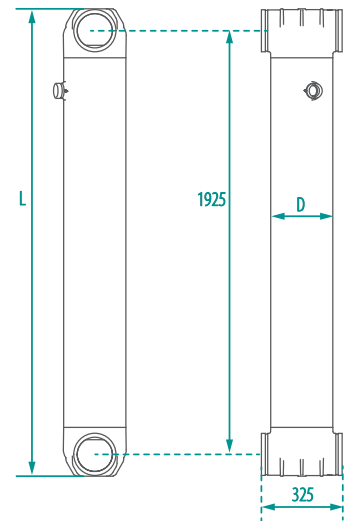
Active Membrane Area	95 m <sup>2</sup>	1,023 ft <sup>2</sup>
Module Length Including T-Piece (L)	2,101 mm	82.7 inch
Module Diameter (D)	250 mm	9.8 inch

### Weight and Volume

Shipping Weight (Module Only)	57 kg	126 lbs.
Weight Empty (Module and Corresponding Frame)	70 kg	154 lbs.
Weight Filled (Module and Corresponding Frame)	137 kg	302 lbs.
Hold-Up Volume Feed (CIP)	32 L	8.5 gal
Hold-Up Volume Membrane Structure (CIP)	18 L	4.8 gal
Hold-Up Volume Filtrate (CIP)	28 L	7.4 gal

## 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	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	



## T-Rack™ Configuration

Number of Modules	T-Rack™ Unit	Part Number <sup>1</sup>	Length <sup>2</sup>		Membrane Area		
			mm	ft	m <sup>2</sup>	ft <sup>2</sup>	
<b>Single-Sided Connection to Manifold</b>							
<b>2 Rows Configuration</b>							
4	TR-4-2-1	TD-1004	655	2.15	380	4,090	
6	TR-6-2-1	TD-1006	985	3.23	570	6,135	
8	TR-8-2-1	TD-1008	1,315	4.31	760	8,181	
10	TR-10-2-1	TD-1010	1,645	5.40	950	10,226	
12	TR-12-2-1	TD-1012	1,975	6.48	1,140	12,271	
14	TR-14-2-1	TD-1014	2,305	7.56	1,330	14,316	
16	TR-16-2-1	TD-1016	2,635	8.65	1,520	16,361	
18	TR-18-2-1	TD-1018	2,965	9.73	1,710	18,406	
20	TR-20-2-1	TD-1020	3,295	10.81	1,900	20,451	
22	TR-22-2-1	TD-1022	3,625	11.89	2,090	22,496	
24	TR-24-2-1	TD-1024	3,955	12.98	2,280	24,542	
26	TR-26-2-1	TD-1026	4,285	14.06	2,470	26,587	
<b>4 Rows Configuration</b>							
28	TR-28-4-1	TD-1428	2,305	7.56	2,660	28,632	
32	TR-32-4-1	TD-1432	2,635	8.65	3,040	32,722	
36	TR-36-4-1	TD-1036	2,965	9.73	3,420	36,812	
40	TR-40-4-1	TD-1040	3,295	10.81	3,800	40,903	
44	TR-44-4-1	TD-1044	3,625	11.89	4,180	44,993	
48	TR-48-4-1	TD-1048	3,955	12.98	4,560	49,083	
52	TR-52-4-1	TD-1052	4,285	14.06	4,940	53,174	

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	m <sup>2</sup>	ft <sup>2</sup>	
<b>Double-Sided Connection to Manifold</b>							
<b>4 Rows Configuration</b>							
56	TR-56-4-2	TD-1456	4,615	15.14	5,320	57,264	
60	TR-60-4-2 <sup>3</sup>	TD-1460	4,945	16.22	5,700	61,354	
64	TR-64-4-2	TD-1464	5,275	17.31	6,080	65,444	
68	TR-68-4-2 <sup>3</sup>	TD-1468	5,605	18.39	6,460	69,535	
72	TR-72-4-2	TD-1072	5,930	19.46	6,840	73,625	
76	TR-76-4-2 <sup>3</sup>	TD-1076	6,260	20.54	7,220	77,715	
80	TR-80-4-2	TD-1080	6,590	21.62	7,600	81,805	
84	TR-84-4-2 <sup>3</sup>	TD-1084	6,920	22.70	7,980	85,896	
88	TR-88-4-2	TD-1088	7,250	23.79	8,360	89,986	
92	TR-92-4-2 <sup>3</sup>	TD-1092	7,580	24.87	8,740	94,076	
96	TR-96-4-2	TD-1096	7,910	25.95	9,120	98,166	
100	TR-100-4-2 <sup>3</sup>	TD-1100	8,240	27.03	9,500	102,257	
104	TR-104-4-2	TD-1104	8,570	28.12	9,880	106,347	

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).



Have a question? Contact us at:  
[dupont.com/water/contact-us](https://www.dupont.com/water/contact-us)

All information set forth herein is for informational purposes only. This information is general information and may differ from that based on actual conditions. Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where DuPont is represented. The claims made may not have been approved for use in all countries. Please note that physical properties may vary depending on certain conditions and while operating conditions stated in this document are intended to lengthen product lifespan and/or improve product performance, it will ultimately depend on actual circumstances and is in no event a guarantee of achieving any specific results. DUPONT ASSUMES NO OBLIGATION OR LIABILITY FOR THE INFORMATION IN THIS DOCUMENT. References to "DuPont" or the "Company" mean the DuPont legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. No freedom from infringement of any patent or trademark owned by DuPont or others is to be inferred.

DuPont™, the DuPont Oval Logo, and all trademarks and service marks denoted with ™, SM or ® are owned by affiliates of DuPont de Nemours Inc. unless otherwise noted. © 2024 DuPont. All rights reserved.

Form No. 45-D04341-en, Rev. 2  
 February 2024