

DuPont™ Inge™ MB PRO XL 82 TRS Module

Module for TR S 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.

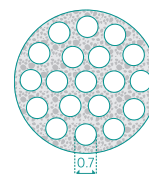
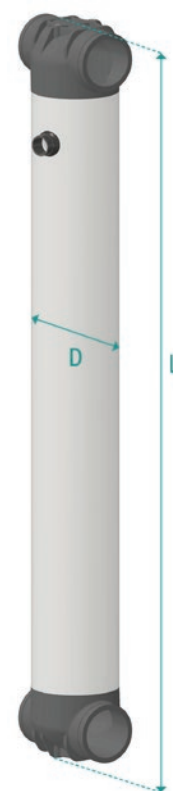
Optimized Module Design:

- Innovative end-cap design to suit T-Rack™ S 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



Certified to
NSF/ANSI/CAN 61

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 m²	883 ft²
Module Length Including T-Piece (L)	1,879 mm	74.0 inch
Module Diameter (D)	250 mm	9.8 inch

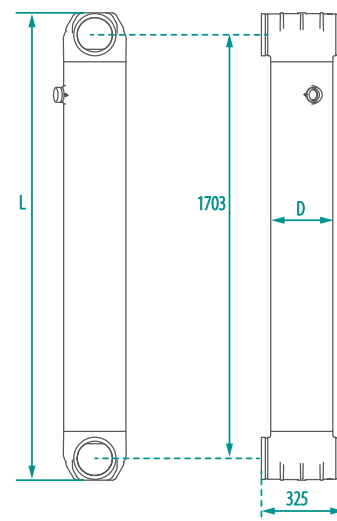
Weight and Volume

Shipping Weight	47 kg	103 lbs.
Weight Empty (Module and Corresponding Frame)	59 kg	131 lbs.
Weight Filled (Module and Corresponding Frame)	123 kg	271 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	8.3 gal

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 m³h	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 m³h	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.



T-Rack™ Configuration

Number of Modules	T-Rack™ Unit	Part Number ¹	Length ²		Membrane Area	
			mm	ft	m²	ft²
Single-Sided Connection to Manifold						
2 Rows Configuration						
4	TR-S-4-2-1	12071170	655	2.15	328	3,531
6	TR-S-6-2-1	12071171	985	3.23	492	5,296
8	TR-S-8-2-1	12071172	1,315	4.31	656	7,061
10	TR-S-10-2-1	12071173	1,645	5.40	820	8,827
12	TR-S-12-2-1	12071174	1,975	6.48	984	10,592
14	TR-S-14-2-1	12071175	2,305	7.56	1,148	12,357
16	TR-S-16-2-1	12071176	2,635	8.65	1,312	14,123
18	TR-S-18-2-1	12071177	2,965	9.73	1,476	15,888
20	TR-S-20-2-1	12071178	3,295	10.81	1,640	17,653
22	TR-S-22-2-1	12071179	3,625	11.89	1,804	19,419
24	TR-S-24-2-1	12071180	3,955	12.98	1,968	21,184
26	TR-S-26-2-1	12071181	4,285	14.06	2,132	22,949
28	TR-S-28-2-1	12071182	4,615	15.14	2,296	24,715
30	TR-S-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	T-Rack™ Unit	Part Number ¹	Length ²		Membrane Area	
			mm	ft	m²	ft²
Single-Sided Connection to Manifold						
4 Rows Configuration						
16	TR-S-16-4-1	12071189	1,315	4.31	1,312	14,123
20	TR-S-20-4-1	12071190	1,645	5.40	1,640	17,653
24	TR-S-24-4-1	12071191	1,975	6.48	1,968	21,184
28	TR-S-28-4-1	12071192	2,305	7.56	2,296	24,715
32	TR-S-32-4-1	12071193	2,635	8.65	2,624	28,245
36	TR-S-36-4-1	12071194	2,965	9.73	2,952	31,776
40	TR-S-40-4-1	12071195	3,295	10.81	3,280	35,307
44	TR-S-44-4-1	12071196	3,625	11.89	3,608	38,837
48	TR-S-48-4-1	12071197	3,955	12.98	3,936	42,368
52	TR-S-52-4-1	12071198	4,285	14.06	4,264	45,899
56	TR-S-56-4-1	12071199	4,615	15.14	4,592	49,429
60	TR-S-60-4-1	12071200	4,945	16.22	4,920	52,960

1. Rack parts without modules.

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

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™ Inge™ TR Rack Assembly 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™ Inge™ PES-UF Module Preservation Instruction](#) (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™ Inge™ 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™ Inge™ PES-UF Module Rinsing Procedure](#) (Form No. 45-D02947-en).

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