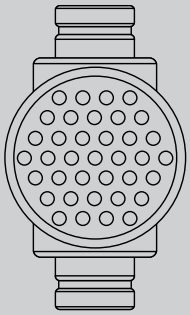
FILTRATION

POREX® TMF 37-Tubular Membrane Filter (TMF) Modules

Optimal high solids separation at high flux rates

POREX TMF cross-flow tubular membrane modules contain Porex's unique, structural membrane tubes. The superior strength of the membrane/substrate composite allows higher operating and backwash pressures for superior solids removal efficiency, higher flux and reduced system footprint. The structural composite membrane features PVDF membrane bonded to PVDF substrate or anchored to PE substrate.



TMF Series Features:

- Consistent, reliable solid/liquid separations and long service life
- Unique support with PVDF membrane offers high performance tubular membrane with superior operating characteristics
- Sintered PVDF substrate with PVDF membrane offers high temperature and improved chemical compatibility (pH range of 0–14)
- PVDF/PVDF composite option offers increased abrasion resistance and enhanced membrane durability
- Three distinct membrane pore sizes available on two different substrate options
- Uniform, thermally-bonded omni-directional substrate pore structure provides an optimized support structure for tubular membranes and enhanced membrane durability
- Now available in multiple tube quantities and diameters for increased surface area and flux

Chemical Resistance:

POREX TMF modules are resistant to a broad spectrum of corrosive chemicals and reagents as well as pH ranges of 0 to 14. Typically, pilot feasibility tests are needed to determine the actual TMF module performance under real operating conditions.

For additional information on our TMF Tubular Membrane Filters call 866-515-7783 or visit our web site at www.porexfiltration.com.

Operating Specifications	
Pre-Use Wetting Agent	IPA
Water Flux	>200 GFD (340 LMH)
Cross Flow Liquid Velocity	10 – 16 ft/sec (3.5 to 5.6 m/s)
pH Range	0 – 14
Max Backpulse Pressure	20 psi (138 kPa) at 25°C
Max Differential Pressure	120 psi (827 kPa) at 25°C
Max Solids	18%
Min Solids	0.25%
Max Viscosity	50 cp
Min Viscosity	<1 cp

Physical Specifications	
Modules	
Housing Diameter	6" Sc40
Filtrate Port (Qty 2)	ø2.875" x 1.89" L pipe stub
Retentate Ports	6" pipe Anvil Gruvlok groove
Mounting Required	Horizontal; 2 point
Module Length	72" (1829 mm)
Tubes	
Number of Tubes	37
Nominal ID	0.5" (12.7 mm)
Nominal OD	0.79" (20.07 mm)
Total Active Surface Area	27.75 ft^2 (2.58 m^2)
Internal Liquid Volume	
Filtrate Volume	3.07 gallons (11.62 ltr)
Concentrate Volume	2.26 gallons (8.52 ltr)
Total Volume	5.33 gallons (20.18 ltr)
Materials of Construction	
Potting	Solvent Cement
Internal Supports	Polypropylene
Gasket Material	None
Preservative	Propylene Glycol
Membrane	PVDF

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Coupling and Tubing Specifications	
Filtrate Port Vinyl Tubing Specifications	
I.D.	3 in. (76.2 mm)
O.D.	3 1/2 in. (88.9 mm)
Wall Thickness	1/4 in. (6.35 mm)
Approx. Max. Pressure	21 psi at 70˚ F
Weight (lbs / 100 ft)	144
Gruvlok Coupling Specifications	
Gruvlok Model	Anvil 7001 Standard Coupling
Sized	6 in.
Standard Gasket	C Style
Standard Gasket Material	Grade E (EPDM) suitable for most applications
Approx. Weight Each	11.8 lbs (5.4 kg)
Vitaulic Coupling Specifications	
Victaulic Model	77 or 75 flexible coupling
Sized	6 in.
Standard Gasket Material	Grade E (EPDM) suitable for most applications
Approx. Weight Each	7 lbs (3.2 kg)

Maximum Cleaning	Solution Strength
Bleach (NaOCl)	< 17% to 100˚F (38˚C)
Caustic (NaOH)	< 15% to 104˚F (40˚C)
Acid (HCl)	< 15% to 140˚F (60˚C)
Peroxide (H2O2)	< 5% to 100˚F (38˚C)

Item Number	Description	Nominal Pore Size (µm)	Maximum Continuous Operating Temperature*	Housing	Substrate Tube	Shipping Dimensions (inch) (mm)	Shipping Weight (lbs) (kg)
MME2005637VP	37 Tube PVC Module / PE 0.5" tube - 0.05µm	0.05µ	43˚C / 110˚F	Grade 1 PVC	UHMWPE	13 x 12 x 75 331 x 205 x 1905	53.1 24.09
MME2S01637VP	37 Tube PVC Module / PE 0.5" tube - 0.1µm	0.1µ	43˚C / 110˚F	Grade 1 PVC	UHMWPE	13 x 12 x 75 330 x 205 x 1905	53.1 24.09
MME2S05637VP	37 Tube PVC Module / PE 0.5" tube - 0.5µm	0.5µ	43˚C / 110˚F	Grade 1 PVC	UHMWPE	13 x 12 x 75 330 x 205 x 1905	53.1 24.09
MME2005637VC	37 Tube CPVC Module / PE 0.5" tube - 0.05µm	0.05µ	43˚C / 110˚F	CPVC	UHMWPE	13 x 12 x 75 330 x 205 x 1905	55.3 25.08
MME2S01637VC	37 Tube CPVC Module / PE 0.5" tube - 0.1µm	0.1µ	43˚C / 110˚F	CPVC	UHMWPE	13 x 12 x 75 330 x 205 x 1905	55.3 25.08
MME2S05637VC	37 Tube CPVC Module / PE 0.5" tube - 0.5µm	0.5µ	43˚C / 110˚F	CPVC	UHMWPE	13 x 12 x 75 330 x 205 x 1905	55.3 25.08
MMV2005637VP	37 Tube PVC Module / PVDF 0.5" tube - 0.05µm	0.05µ	60˚C / 140˚F	Grade 1 PVC	PVDF	13 x 12 x 75 330 x 205 x 1905	74.6 33.84
MMV2S01637VP	37 Tube PVC Module / PVDF 0.5" tube - 0.1µm	0.1µ	60˚C / 140˚F	Grade 1 PVC	PVDF	13 x 12 x 75 330 x 205 x 1905	74.6 33.84
MMV2S05637VP	37 Tube PVC Module / PVDF 0.5" tube - 0.5µm	0.5µ	60˚C / 140˚F	Grade 1 PVC	PVDF	13 x 12 x 75 330 x 205 x 1905	74.6 33.84
MMV2005637VC	37 Tube CPVC Module / PVDF 0.5" tube - 0.05µm	0.05µ	80˚C / 176˚F	CPVC	PVDF	13 x 12 x 75 330 x 205 x 1905	76.7 34.79
MMV2S01637VC	37 Tube CPVC Module / PVDF 0.5" tube - 0.1µm	0.1µ	80˚C / 176˚F	CPVC	PVDF	13 x 12 x 75 330 x 205 x 1905	76.7 34.79
MMV2S05637VC	37 Tube CPVC Module / PVDF 0.5" tube - 0.5µm	0.5µ	80˚C / 176˚F	CPVC	PVDF	13 x 12 x 75 330 x 205 x 1905	76.7 34.79

** For operation at higher than listed temperatures, contact your Porex representative. Note: rapid temperature changes can damage the Filter Modules.*

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