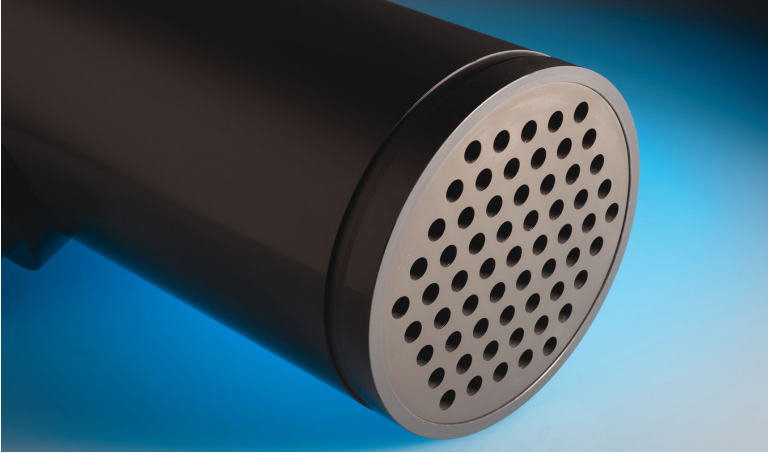


PCI TMF 61 - PCI TUBULAR MEMBRANE FILTER (TMF™) MODULES



Optimal high solids separation at high flux rates

PCI TMF cross-flow tubular membrane modules contain PCI Membranes' 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 anchored to PE substrate.

Chemical resistance

PCI 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 PCI TMF module performance under real operating conditions.

PCI 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
- Three distinct membrane pore sizes available
- 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

TMF61-20230331

Corporate Office

PCI Membranes Sp. z o.o.
ul. Polna 1B
62-025 Kostrzyn Wielkopolski, Poland

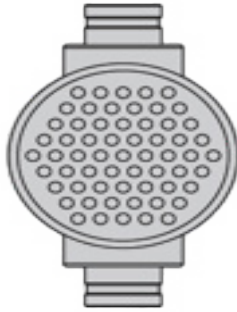
Phone

Phone: + 44 1489 563 470
Email: pcimembranes@filtrationgroup.com

Online

Website: www.pcimembranes.com
www.filtrationgroup.com

PCI TMF 61 - PCI TUBULAR MEMBRANE FILTER (TMF™) MODULES



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	21.7 lbs (9.8 kg)

Vitauclic Coupling Specifications

Vitauclic Model	77 or 75 flexible coupling
Sized	8 in.
Standard Gasket Material	Grade E (EPDM) suitable for most applications
Approx. Weight Each	20.8 lbs (9.4 kg)

Maximum Cleaning Solution Strength

Bleach (NaOCl)	< 17% at 100°F (38°C)
Caustic (NaOH)	< 15% at 104°F (40°C)
Acid (HCl)	< 15% at 140°F (60°C)
Peroxide (H ₂ O ₂)	< 5% at 100°F (38°C)

Operating Specifications

Pre-Use Wetting Agent	IPA
Water Flux	> 200 GFD (340 LMH)
Cross Flow Liquid Velocity	10-16 ft/sec (3.0 to 4.9 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	1 off 8" Sc40
Filtrate Port (Qty 2)	1 off ø2.875" x 1.89" L pipe stub
Feed & Retentate Ports	2 off 8" pipe Anvil Gruvlok groove
Mounting Required	Horizontal; 2 point
Module Length	72" (1,829 mm)

Tubes

Number of Tubes	61
Nominal ID	0.5" (12.7 mm)
Nominal OD	0.79" (20.07 mm)
Total Active Surface Area	45.75 ft ² (4.25 m ²)

Internal Liquid Volume

Filtrate Volume	6.55 gallons (24.78 ltr)
Concentrate Volume	3.73 gallons (14 ltr)
Total Volume	10.28 gallons (38.78 ltr)

Materials of Construction

Potting	Solvent Cement
Internal Supports	Polypropylene
Gasket Material	None
Preservative	Propylene Glycol
Membrane	PVDF

TMF61-20230331

Corporate Office

PCI Membranes Sp. z o.o.
ul. Polna 1B
62-025 Kostrzyn Wielkopolski, Poland

Phone

Phone: + 44 1489 563 470
Email: pcimembranes@filtrationgroup.com

Online

Website: www.pcimembranes.com
www.filtrationgroup.com

PCI TMF 61 - PCI TUBULAR MEMBRANE FILTER (TMF™) MODULES

PCI TMF relevant parameters overview

Item Number	Description	Normal Pore Size (µm)	Maxium Continuous Operating Temperature*	Housing	Substrate Tube	Shipping Dimensions	Shipping Weight
MME2005661VP	61 Tube PVC Module / PE 0.5" tube - 0.05 µm	0.05 µm	43°C / 110°F	Grade 1 PVC	UHMWPE	15 x 9.5 x 75.5 in 380 x 240 x 1918 mm	75 lbs 34 kg
MME2S01661VP	61 Tube PVC Module / PE 0.5" tube - 0.1 µm	0.1 µm	43°C / 110°F	Grade 1 PVC	UHMWPE	15 x 9.5 x 75.5 in 380 x 240 x 1918 mm	75 lbs 34 kg
MME2002661VP	61 Tube PVC Module / PE 0.5" tube - 0.02 µm	0.02 µm	43°C / 110°F	Grade 1 PVC	UHMWPE	15 x 9.5 x 75.5 in 380 x 240 x 1918 mm	75 lbs 34 kg

* For operation at higher than listed temperatures, contact PCI Membranes.

Note: rapid temperature changes may potentially cause damage to the PCI TMF modules.

TMF61-20230331

Corporate Office

PCI Membranes Sp. z o.o.
 ul. Polna 1B
 62-025 Kostrzyn Wielkopolski, Poland

Phone

Phone: + 44 1489 563 470
 Email: pcimembranes@filtrationgroup.com

Online

Website: www.pcimembranes.com
www.filtrationgroup.com