Polymex RO, UF, MF
& NF Membranes

POLYMEX™

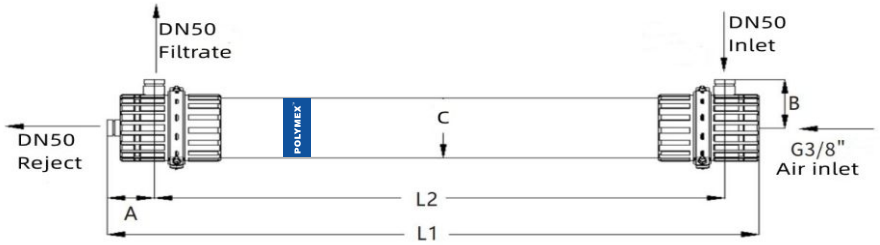
Product Data Sheet

# Polymex MF 2860

Hollow Fiber UF Membrane Module

The Polymex MF Series Microfiltration Module is a high performance hollow fiber membrane component with a 0.1µm pore size, engineered for precise contaminant removal. Crafted from premium PVDF material, it boasts excellent chemical resistance and anti-fouling properties, ensuring stable operation across various harsh process conditions. With its high porosity and optimized flow path design, the module delivers superior permeability while reliably retaining suspended solids, bacteria, and fine particles. Ideal for water treatment, pre-Ro filtration, and industrial process purification, it offers long service life and easy maintenance for cost-effective performance.






## Product Highlights

FEATURES

- Modified PVDF with good hydrophilicity
- Anti-fouling with long service life
- Excellent chemical resistance
- Outside-in flow mode

APPLICATIONS

- Pre-RO
- Power plant
- Drinking water
- Oil&Gas

*At the Inlet of this membrane <5 µm Filter should be Provided to prevent blockage of membrane by large particles in Feed Water.

### Product Dimensions & Specification

| Model | Length L1 inch (mm) | Length L2, Inch(mm) | Diameter C Inch(mm) | Width W1 , W2 | Effective Membrane Area, $ft^2$ ($m^2$) | Flow Configuration | Flow L/H (1.5 $Kg/cm^2$, 25°C) |
|---|---|---|---|---|---|---|---|
| **MF 2860** | 92.91(2360) | 64.17(1630) | 8.86(225) | 9.84(250) | 549(51) | Outside - In | 2000 – 6000 |

### Filtration Peformance

| Ingredient | Effect |
|---|---|
| SS, Particles > 1µm | Removal Rate = 99% |
| SDI | ≤ 5 |
| Turbidity | < 1NTU |
| TOC | Removal Rate: 0-30% |

### Technical Parameters

| Ingredient | Effect |
|---|---|
| Filtering Type | Outside - In |
| Membrane Material | PVDF |
| Membrane Area | 51$m^3$ (549 $ft^2$) |

### Application Data

| | |
|---|---|
| Operating Flux | 50-120L/$m^2$.hr (1.5 $Kg/cm^2$, 25°C) |
| Backwash Flux | 100-200L/$m^2$.hr (1.5 $Kg/cm^2$, 25°C) |
| Suggested Working Pressure | ≤ 2 $Kg/cm^2$ |
| Maximum Transmembrane Pressure | 1.5 $Kg/cm^2$ |
| Maximum Backwashing Pressure | 1.5 $Kg/cm^2$ |
| Air Washing Volume | 0.1-0.15N $m^3/m^2$.hr |
| Air Washing Pressure | ≤ 1 $Kg/cm^2$ |
| Maximum Working Temperature | 45°C |
| PH Range | Working: 2-11; Washing: 2-11 |
| Operating Mode | Cross Flow or Dead End |

### Operating Parameters

| | |
|---|---|
| Backwashing Frequency | Every 30-60min. |
| Backwashing Duration | 30-60s |
| CEB Frequency | 0-4 times per day |
| CEB Duration | 5-10min. |
| CIP Frequency | Every 1-3 months |
| Sterilization | 15ppm Sodium Hypochlorite |
| Organic Pollution Washing | 0.2% Sodium Hypochlorite + 0.1% Sodium Hydroxide |
| Inorganic Pollution Washing | 1-2% Citric Acid/0.2% Hydrochloric Acid |