Polymex RO, UF
& NF Membranes



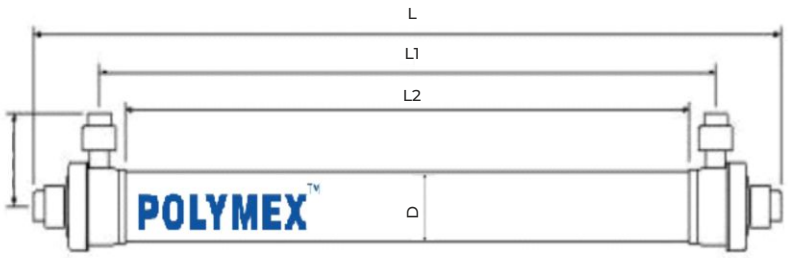

POLYMEX™

Product Data Sheet

# Polymex Mx 80

## Hollow Fiber UF Membrane Module

POLYMEX Mx Series Ultrafiltration module is made with hollow fiber PVDF which has good resistance to chemicals and high mechanical strength, it can be used to replace Hydranautics HYDRAcap MAX 80 UF membrane modules with better cost effectiveness. Hollow fiber UF module allows for larger loading capacity with same space, 0.08µm pore size contributes to good rejection to bacteria and virus, modified PVDF material has very good hydrophilic feature and less membrane fouling.




### Product Dimensions & Specification

| Model | Length L, L1 inch (mm) | Length L2, L3 Inch(mm) | Diameter D Inch(mm) | Width W1 , W2 | Effective Membrane Area, ft² (m²) | Flow Configuration | Flow L/H (1.5 Kg/cm², 25°C) |
|---|---|---|---|---|---|---|---|
| **Mx 80** | 2340.60 | 2232.70 | 2110.90 | 250 | 105(9.75) | Outside In | 3,600 - 11,600 |

### Filtration Peformance

| Ingredient | Effect |
|---|---|
| SS, Particles > 1µm | Removal Rate = 99% |
| SDI | ≤ 3 |
| Bacteria, Viruses | > 4 log |
| Turbidity | < 1NTU |
| TOC | Removal Rate: 0-25% |

### Technical Parameters

| Ingredient | Effect |
|---|---|
| Filtering Type | Inside-Out |
| Membrane Material | PES |
| MWCO | 100K Dalton |
| Membrane Area | 80m² (861 ft²) |

### Application Data

| | |
|---|---|
| Operating Flux | 50-120L/m².hr (1.5 Kg/cm², 25°C) |
| Backwash Flux | 100-200L/m².hr (1.5 Kg/cm², 25°C) |
| Suggested Working Pressure | ≤ 3.0 Kg/cm² |
| Maximum Transmembrane Pressure | 3.0 Kg/cm² |
| Maximum Backwashing Pressure | 3.0 Kg/cm² |
| Air Washing Volume | 0.1-0.15N m³/m².hr |
| Air Washing Pressure | ≤ 1.0 Kg/cm² |
| Maximum Working Temperature | 35°C |
| PH Range | Working: 4-10; Washing: 2-12 |
| 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 |

## Product Highlights

- Drinking water treatment of tap water, surface water, well water and river water.
- Pre-treatment for RO.
- High strength, hollow fibre membranes
- Treatment, recycle and reuse of industrial waste water.
- Moderate removal rate of organic maters with High flux.

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