Polymex RO, UF
& NF Membranes

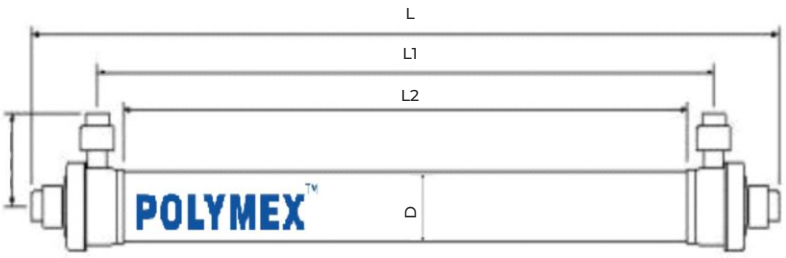

POLYMEX™

Product Data Sheet

# Polymex Flex 65

Hollow Fiber UF Membrane Module

POLYMEX Flex 65 Series is an ultrafiltration module, used for production of process and potable water. Typical applications are the filtration of surface water, potable water and WWTP effluent. Mode of operation is feed-and-bleed with a minor crossflow or dead-end mode with regular backwash (permeate only) and chemically enhanced backwash.




## 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) |
|---|---|---|---|---|---|---|---|
| **Flex 65** | 74.84(1901) | 68.42(1738) | 60.51(1537.5) | 8.66(200) | 700(65) | Inside Out | 3250 - 7800 |

## 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 | 65m² (700 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.