Polymex RO, UF
& NF Membranes



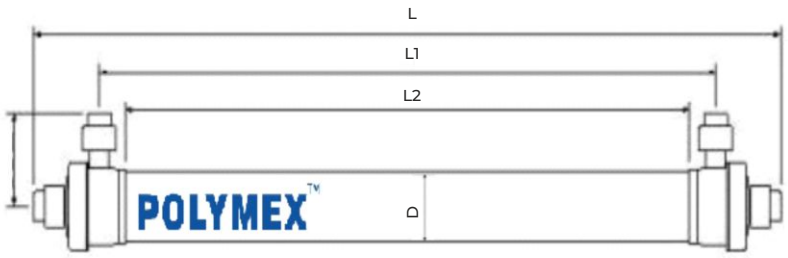
POLYMEX™

Product Data Sheet

Polymex UFC 90 AL

Hollow Fiber UF Membrane Module

POLYMEX PVC Series UF Membranes are capillary hollow fiber membranes with high polymer material, which will not have any phase change. Modified PVC material, which is adopted on this product, has excellent permeable rate, mechanical properties, chemical resistance and pollution resistance. With Inside-Out flow, Hollow fibers are separated into 3 sectors, evenly distributing backwashing water to each sector, resulting in better backwashing effect.



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)
UFC90 AL	46.85(1190)	38.97(990)	35.82(910)	3.54(90)	51.66(4.8)	Inside Out	168-480

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	Modified PVC
MWCO	100K Dalton
Membrane Area	4.8m² (51.67 ft²)

Application Data

Operating Flux	35-100L/m².hr (1.5 Kg/cm², 25°C)
Backwash Flux	100-150L/m².hr (1.5 Kg/cm², 25°C)
Suggested Working Pressure	≤ 2.0 Kg/cm²
Maximum Transmembrane Pressure	1.5 Kg/cm²
Maximum Backwashing Pressure	1.5 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.