Polymex RO, UF
& NF Membranes

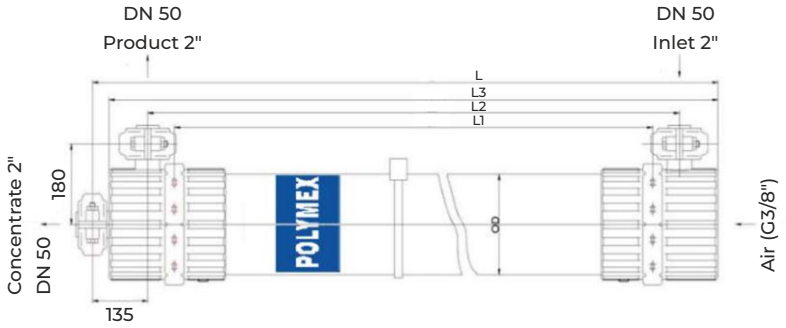
POLYMEX™

Product Data Sheet

Polymex UF 2860

Hollow Fiber UF Membrane Module

The POLYMEX PVDF series UF membranes are characterized extremely high flux and high strength, hollow fibre membranes with 0.03 µm nominal pore diameter for the removal of bacteria, viruses, and particulates including colloids to protect down stream processes such as RO. It can effectively retain organic compounds with cut-off molecular weight within the range of 0-200D. Hydrophilic PVDF fibers are known for easy cleaning and wettability that helps maintaining the long-term performance.



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)
UF 2860	73.22 (1860); 59.05 (1500)	64.13 (1630); 71.65 (1820)	8.9(225)	7.1 (180); 13.5 (342)	549 (51)	Outside in	2000-6000

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	Outside-in
Membrane Material	Modified PVDF
MWCO	200K Dalton
Membrane Area	51m² (549 ft²)

Application Data

Operating Flux	40-100L/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
Air Washing Volume	0.1-0.15N m³/m².hr
Air Washing Pressure	≤ 1.0 Kg/cm²
Maximum Working Temperature	45°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.