



# MEMFILL

## Nano Filtration

### PVDF

#### Memflow NF PVDF 8040

MEMFILL - Company background we are expert in membrane technologies and manufacturing Composite hollow fiber membranes for water, wastewater and water reuse applications covering various Industries.

Our extensive R&D activities have resulted in indigenously producing a range of high quality and durable Hollow fiber membranes. Further, we offer our innovative process know-how, tailor-made turnkey solutions to markedly reducing the operating expense.

Memfill's Nano-Filtration (NF), PVDF Hollow fiber membrane has developed for high TSS and Turbidity removal from various industries. Our proprietary hydrophilized polyvinylidene fluoride (PVDF) membranes are extremely durable and strength. Nominal pore size is 0.1  $\mu\text{m}$  offers equivalent permeate.

Nano filtration (NF) membranes have a retention defining microporous outer skin and a more open inner layer for increased filtration with higher recoveries.





## Product Name: Memflow NF PVDF 8040

### Features

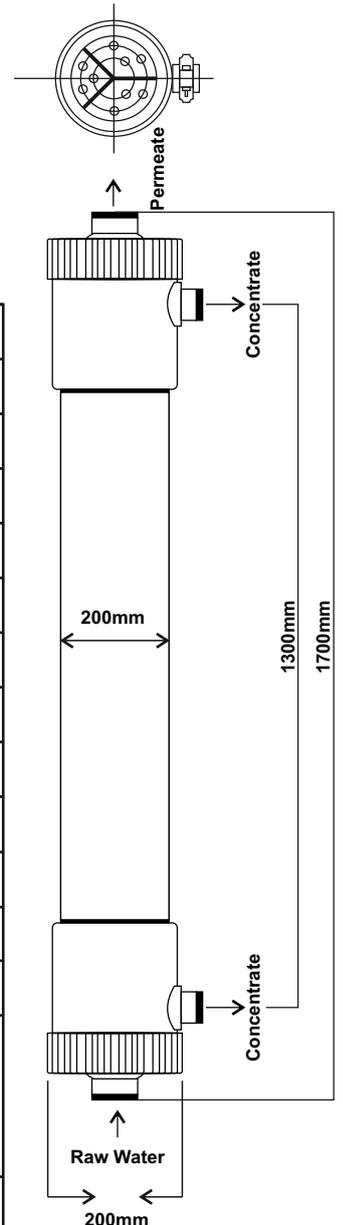
- 0.01µm pore size guarantees stable permeate
- Modified PVDF membrane with easy wetting performance
- High tolerance to varying influent water qualities
- Reduced pre-treatment requirements due to outside-in flow
- Energy saving due to low operating pressure

### Applications

- Landfill Leachate Treatment
- Dissolved natural organic matter removal from surface water
- Seawater Sulfate Removal
- Brine Recovery
- Pre-treatment system
- Purification and filtration of reagents and chemical raw materials

### Specification

|                              |  |
|------------------------------|--|
| Module Type                  | Memflow NF PVDF 8040   |
| Membrane Material            | PVDF   |
| Surface Area (Outer Surface) | 40 m <sup>2</sup>  |
| Nominal Pore Size            | 0.01 Micron  |
| Molecular Weight Cut Off     | 1,00,000 Dalton  |
| Bacteria Removal Rate        | > 4 log  |
| Filtration Mode              | Out-to-in  |
| Operating Temperature        | 5 - 40°C   |
| pH Range                     | 2 - 10   |
| Max Operating Pressure       | ~ 3 bar  |
| Suggested Operating Pressure | < 2 bar  |
| Max Transmembrane Pressure   | < 2 bar  |
| pH Range                     | 2-10   |
| Design Pure Water Flux       | 3.5 - 4 m <sup>3</sup> /Hr<br>(Design flux varies depending on feed water quality and system design) |
| Permeate Turbidity           | < 0.1 NTU  |
| Housing                      | UPVC   |
| End Cap                      | UPVC   |
| End Cap Type                 | Victaulic  |
| Potting Material             | Polyurethane + Epoxy   |



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