



Water Solution Provider

FILTRATION | SEPARATION | PURIFICATION

Hollow Fiber Ultra Filtration Membrane



UF Module



UF Module on skid

Ultra Filtration is a filtration system with filtration degree between 0.1-0.01 micron which enables to remove Suspended Solid (SS), Bacteria, and Colloidal matters. The last two impurities are difficult to remove with conventional clarifier system. Due to our compact and robust design, the treated water will have consistent in quality and the footprint area is only 30% if compared to the conventional system, so we can help our customer to optimize the investment.

Application

Water Purification

- Production of potable water from river, pond, etc.
- Water purification for bottled water production

Waste / Effluent Treatment

- Treatment of various industrial waste streams such as oily wastewater
- Recovery of valuable particles from industrial waste streams
- Regeneration of useful process streams by selective removal of contaminants

Wastewater Recycling

- Zero discharge of process waste streams
- Municipal wastewater reclamation
- Recycling of wastewater from various industries, such as semiconductor, pulp and paper, textile, dye and agriculture processes



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Pretreatment

- Seawater desalination pretreatment
- Pretreatment of water upstream of RO system in ultra-pure water preparation for power plant, semiconductor, pharmaceutical industries etc.
- Pretreatment of water preceding ion exchange columns

Food & Beverages Industry

- Milk and dairy processing such as whey fractionation
- Fruit juices clarification
- Vinegar, beer, and wine clarification

Pharmaceutical / Biotechnology

- Preparation of high quality water for injection
- Purification and concentration of pharmaceutical process streams such as proteins and enzymes
- Clarification of fermentation broth for cell harvesting or biomass recovery

Description	Specification
Material membrane	Modified Polyethersulfone (PES), asymmetric, double layer
Flow Path	Out to in
Housing construction	PVC / ABS
Module dimension	40 inch or 80 inch height x 8 inch diameter
Maximum Operating Temperature	40°C
Maximum Operating Pressure	2.5 bar
PH range	2 - 12
Shipping weight	50 kg

