UFM160 Series 6" PVDF Hollow Fiber Ultrafiltration Membrane Module

Description
Hongtek UFM160 Series 6" PVDF hollow Fiber Ultrafiltration Membrane Module are made of high quality modified PVDF hollow fiber ultrafiltration membrane, which has higher chemical stability, ultrafiltration membrane, acid and alkali resistance, and long service life. After special hydrophilic treatment, the PVDF ultrafiltration membrane has permanent hydrophilic properties, which can ensure a high water production flux even at a lower transmembrane pressure. PVDF hollow fiber ultrafiltration membrane module can effectively overcome the biofouling of particles and ensure the stability good quality of produced water. PVDF UF membrane has a high breaking strength and elongation ability, which can effectively reduce the probability of breaking fiber filaments.

Specification
- Membrane material: PVDF
- Active membrane area: 40m²
- ID/OD of hollow fiber: 0.6mm/1.2mm
- UFML: 20000 Da
- Filtration setting: 1.0 mhos
- Material of seal material: EPDM
- Material of housing: UPVC
- Feed pipe: DIN49 OD 45mm PVC pipe
- Produced water outlet pipe: DIN49 OD 45mm PVC pipe
- Concentrated water outlet pipe: DIN49 OD 45mm PVC pipe

Feature
- PVDF hollow fiber UF is antifouling, stable, resistant, easy to clean
- PVDF hollow fiber UF has large membrane flux, stable water output and long service life
- PVDF UF membrane can be cleaned by air and water, high breaking strength and elongation rate
- Small footprint, easy replacement, low voltage operation, saving electricity and labor costs
- The quality of the produced water is good, the water recovery rate is high, which effectively saves water resources

Sizes of UF Membrane Module

Performance
- Membrane water flow rate: 0.8m³/h
- Filtration rate: 0.63m³/m²/h
- Pressurized diffusion: 0.04MPa
- Applied pressure: 0.5MPa
- Operating temperature range: 5°C-40°C
- Transmembrane pressure: 0.5MPa
- Operating pressure range: 30-70 MPa
- Membrane area: 25m²
- Air flushing volume: 5L
- Maximum allowable pressure: 25 Bar

Work Principle of PVC UF Membrane
- PVDF hollow fiber UF membrane water flow rate is from inner hollow fiber to the outer skin membrane.
- PVDF ultrafiltration membrane fiber pore size distribution is uniform and larger than filtration area.
- PVDF ultrafiltration has strong anti-fouling ability, resistant to acid and alkali and low pressure long life.
- The filtration rating of PVDF UF membrane is 5.0 μm, micro-particles are trapped by the membrane wall.
- Water, small molecules and ions pass through the membrane wall under pressure to form UF filtrate.
- Osmosis to force flow rate of PVDF hollow fiber UF ensure the stability good quality of produced water.

Tech Support
Project Case of 6" PVDF Ultrafiltration Membrane Module

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