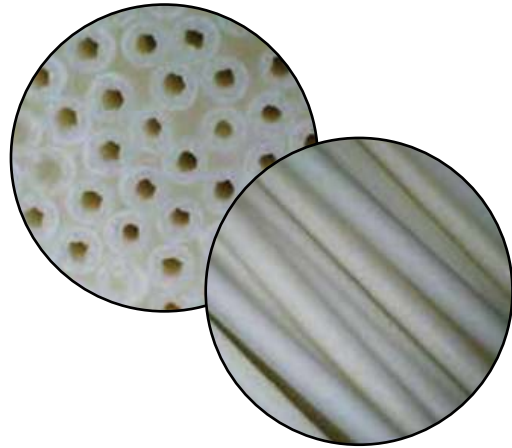


UF1060B Ultrafiltration (UF) Membrane

Product Description



PureLine UF1060B ultrafiltration membrane components adopt PVC single pore hollow fiber membrane internal pressure structure and super hydrophilic membrane technology, which can be applied to dead end and cross-flow operation mode. In order to prevent the accumulation of pollutants on the membrane surface, the pollutants can be removed by physical backwashing and periodic chemical cleaning to ensure the long-term stable operation of the membrane system.

PureLine UF1060B ultrafiltration membrane is characterized of high separation efficiency, while consuming low energy and chemicals. It is primarily a low pressure driven membrane separation process that separates particulate matter from soluble components in the feed stream. UF membranes typically have nominal pore sizes of 0.01 μm and have a high removal efficiency for bacteria and most viruses, colloids and silt.

PureLine UF1060B also features high flux, high strength and break resistant hydrophilic double density layer fiber structure, as well as excellent chemical stability, which can be ideally used in the applications of drinking water, wastewater treatment and seawater desalination pretreatment.



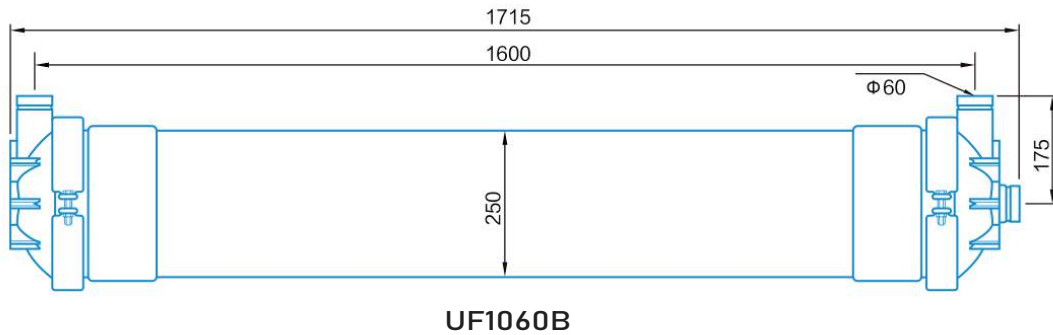
TECHNICAL SPECIFICATIONS

SPECIFICATION & MATERIAL	
Model	PureLine UF1060B
Configuration	Inside-out
Membrane Material	Enhanced Polyvinyl Chloride (PVC)
Type of membrane	Hollow Fiber
No of pore	Single Pore
Membrane Structure	Hydrophilic Double Density layer
MWCO, Daltons nominal	100,000
Nominal Membrane Area (m ²)	50m ²
Membrane / Hollow Fiber Size (OD)	1.6mm
Membrane / Hollow Fiber Size (ID)	1.0mm
Housing Material	U-PVC
Connection Size (Feed Port, Reject Port, Permeate Port)	2.0"

APPLICATION DATA	
Typical Filtrate Flux range (L/m ² /hr)	60-160 LMH
Design Flowrate (surface water)	1.6-3.25 m ³ /hr
pH Range	2-12
Tolerance for continuous residual Chlorine Concentration	< 100ppm
Tolerance for intermittent residual Chlorine Concentration	< 200ppm
Operation mode	Dead-End or Cross Flow
Operating Temperature Range (°C)	5-40°C
Maximum Feed Pressure (psi/bar)	43.5 psi / 3 bar
Suggested Trans-Membrane Pressure (psi/bar)	2.9-11.6 psi / 0.2-0.8 bar
Maximum Trans-Membrane Pressure (psi/bar)	21.8 psi / 1.5 bar
Maximum Trans-Membrane Pressure Backwash (psi/bar)	36 psi / 2.5 bar

DESIGN PROCESS CONDITION	
Maximum Inlet Turbidity	100 NTU
Backwash Flux (L/m ² /hr)	175 LMH
Backwash Pressure (bar)	29 psi / 2 bar
Backwash Interval	20-60 minute
Backwash Duration (seconds)	20-180 second
Chemical Cleaning Duration	10-30 minute
Chemical Cleaning Water Pressure	21.8 psi / 1.5 bar
Chemical Cleaning Water Capacity	200-250 L/m ²
Disinfection Chemicals	NaOCl / H ₂ O ₂
Cleaning Chemicals	NaOH / HCl / Citric Acid

Membrane module size :



PureLine UF1060B	
Membrane module size	250 x 1715mm
Membrane module area	50 m²
Net weight	32.2 kg
Gross weight	33.2 kg

Important information

- Proper startup is crucial to the stable operation of the ultrafiltration system. Before the ultrafiltration system is debuggable or restarted after a long period of downtime, it must be checked and adjusted for various equipment, instruments and inlet water quality to ensure that all conditions meet the set value set or adjusted. Please refer to the product manual for specific operation steps and precautions.
- Under no circumstances shall the ultrafiltration membrane assemblies be frozen. Antifreeze should be added to ensure safe transportation in special areas or on request. Please refer to the product manual for knowledge of antifreeze.
- The ultrafiltration membrane components must be used under the operating conditions specified in the product manual, and any lax design and use will be considered a waiver of quality assurance without written commitment or notice from water art.

In the case of poor water quality, the ultra filtration system should slowly increase the operating flow to the designed value. During debugging, especially for the application of wastewater, the initial flow value should be set at 50% of the designed flow for 12-24 hours.