Perma **Filters**

PermaFilters™

VP 0880-RW

Pressurized Ultrafiltration Membrane Module

Product Features

Patented Membrane Manufacturing Technology

Utilizes high-strength PVDF hollow fiber membrane that features a homogeneous sponge structure with multi-layer filtration, ensuring consistently stable permeate quality.

0.02μm Ultrafiltration Membrane Pores

Provide excellent removal of particles, bacteria, viruses, and colloids, ensuring high-quality water production and offering effective protection for downstream reverse osmosis or nanofiltration systems.

Highly Hydrophilic Membrane

To ensure that the product can stably exert its high permeability characteristics during operation. At the same time, it has strong anti-pollution properties, effectively reduces the cleaning frequency, saves operating costs, and easy to system maintenance.

Outside-In Structure

Can tolerate lower inlet water quality and requires less extensive pretreatment.

Compatibility

Can be integrated with other ultrafiltration or microfiltration systems.

Product Specifications

Membrane Type	Hollow Fiber	Operating Mode	Outside-In
Nominal Pore Size (μm)	0.02	Dimension(mm)	Φ225x2360
ID/OD (mm)	0.7/1.3	Connection(inch)	2 (ANSI)
Effective Membrane Area (m²)	77	Weight (empty/full) (Kg)	61/100
Housing /End Cap Material	UPVC/ABS		
Membrane Material	PVDF (Polyvinylidene fluoride)		
Air Inlet Connection	NPT 3/8" internal thread – Φ10mm ferrule connector		

Operating Conditions

Operating TMP (bar)	0.4–2.0	Operating pH Range	1–11
Backwash Pressure (bar)	0.6–2.0	CIP pH Range	1–13
Backwash Flux (L/m²h)	100	Temperature (°C)	1–40
Air Scrubbing Flow Range	5–12 Nm³/h/piece		
Recommended CIP Concentration Sodium Hypochlorite (ppm)	≤ 2000		

Operating Limits

Influent Particle Size (μm)	400	Maximum Backwash Flux (L/m²h)	120
Maximum Filtration Flux (L/m²h)	120	Maximum Feed Pressure (bar)	6
Maximum Backwash Pressure (bar)	3	Maximum TMP (bar)	3
Sodium Hypochlorite Tolerance	≤200,000ppm×h		

Important Information

To ensure stable operation, water quality and instruments must be checked and confirmed before the product is used for the first time or after a prolonged period of disuse. This ensures the product operates within the appropriate range of conditions. Customers can refer to the product technical manual for operating steps and precautions for installation and use. Freezing of the membrane assembly is strictly prohibited. If transportation or storage in cold areas is unavoidable, the membrane assembly must be protected with antifreeze solution. For detailed antifreeze measures, please refer to the product technical manual.

Customers must strictly follow the operating conditions and requirements outlined in the product technical manual when designing, operating, and maintaining the system. Without written approval from Perma Filters, failure to adhere to the requirements in the product manual will be regarded as a voluntary waiver of warranty.

For systems operating under harsh conditions or for special applications, it is recommended to seek technical clarifications. Please contact Perma Filters or visit the company website for further inquiries www.permafilters.com.