



PermaFilters™

# EP 0962

## Pressurized Ultrafiltration Membrane Module

### Product Features



#### Patented Membrane Manufacturing Technology

Utilizes high-strength, highly hydrophilic PES hollow fiber membranes that maintain stable, high permeability during operation, reducing operating pressure and saving energy. It offers excellent anti-fouling properties, effectively reducing cleaning frequency and simplifying system maintenance.



#### 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.



#### Uniform Flow Distribution

The water inlet flow channels are designed for uniform distribution, accommodating both dead-end and crossflow filtration, making the system suitable for a wide range of applications with flexible operating modes.



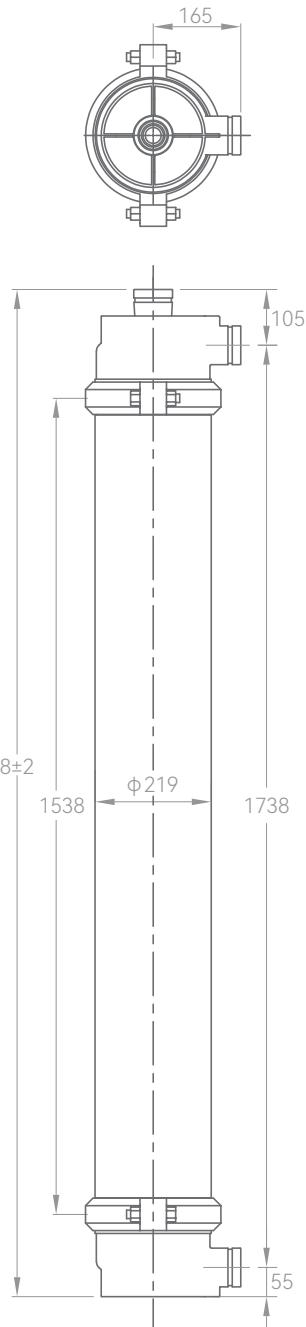
#### Compatibility

Can be integrated with other ultrafiltration or microfiltration systems.

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## Product Specifications

Membrane Type	Hollow Fiber	Operating Mode	Inside-Out
Nominal Pore Size ( $\mu\text{m}$ )	0.02	Dimension(mm)	$\Phi 219 \times 1898$
ID/OD (mm)	0.8/1.4	Connection(mm)	DN65 (ANSI)
Effective Membrane Area ( $\text{m}^2$ )	55	Weight (empty/full) (Kg)	32/62
Housing /End Cap Material	UPVC/ABS		
Membrane Material	PES (Polyether sulfone)		



## Operating Conditions

Operating TMP (bar)	0.4-2.0	Operating pH Range	2-12
Backwash Pressure (bar)	0.6-2.0	CIP pH Range	1-13
Backwash Flux ( $\text{L/m}^2\text{h}$ )	120-200	Temperature ( $^{\circ}\text{C}$ )	1-40
Recommended CIP Concentration Sodium Hypochlorite (ppm)	$\leq 500$		

## Operating Limits

Influent Particle Size ( $\mu\text{m}$ )	400	Maximum Backwash Flux ( $\text{L/m}^2\text{h}$ )	300
Maximum Filtration Flux ( $\text{L/m}^2\text{h}$ )	150	Maximum Feed Pressure (bar)	3
Maximum Backwash Pressure (bar)	3	Maximum TMP (bar)	3

## Important Information



Perma Filters

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](http://www.permafilters.com).