

MP025-0300 UF010

Hollow fiber ultrafiltration module for water and
wastewater applications

MP025-0300 UF010

General Information

The MP025-0300 UF010 is a tight ultrafiltration module, used for potable water production, RO pretreatment, municipal and industrial wastewater treatment for lab-scale test units. These modules excel in removing colloidal silica, turbidity, suspended solids, and virus and bacteria. The modules offer outstanding pH and chlorine resistance and excellent mechanical strength of the fibers, allowing operation at higher transmembrane pressure than competing products. The MP025-0300 UF010 modules can be used as final polishing step – for example to remove colloidal silica from boiler feed water or in the soft drink industry.

Membrane characteristics

Membrane material	Modified PES
Membrane fiber inner diameter	0.7 mm (0.028")
MWCO ¹	10 kDa
Filtration mode	Inside-Out; Vertical
Operation mode	Dead-end or cross-flow

Operating Conditions

Typical flux	50 – 100 l/m ² /h (30 – 60 gfd)
Max. system pressure ²	10 bar (145 psi)
Max. filtration transmembrane pressure	6 bar (87 psi)
Max. backwash pressure	4 bar (58 psi)
Max. active chlorine concentration	500 ppm @ pH>10
Max. cumulative active chlorine exposure	250,000 ppm-hours @ pH>10
Max. particle size	150 µm
Max. TSS	300 ppm
Max. turbidity	150 NTU
Max. Temperature during operation & cleaning	40°C (104°F)
pH range during operation	2-12
pH range during cleaning	1-13

¹ Molecular Weight Cut Off (is an estimation as it depends on size, shape, charge and polarity of the compound being tested, as well as test conditions. Measured with PEG.

² The max. system pressure for operating the MP025-0300 in NX Filtration's Mexplorer test unit is 6 bar (87 psi).

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Module Specification

Materials of Construction

Housing	PVC transparent
Internals	None
Potting	Epoxy resin

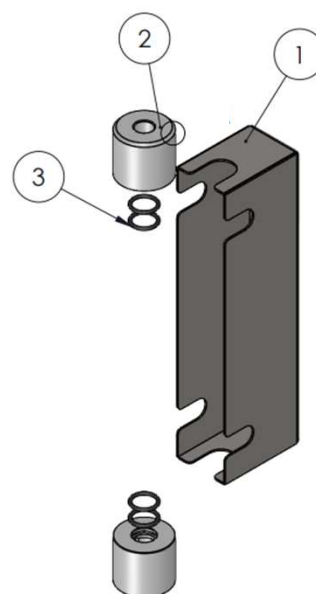
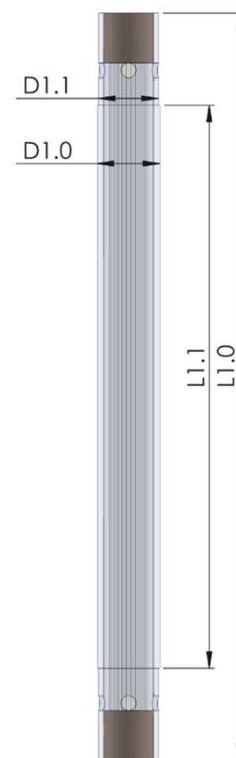
Dimensions

Membrane Surface Area	0.050 m ²
L1.0	300 mm (11.81")
L1.1	226 mm (8.90")
D1.0	25 mm (0.98")
D1.1	24 mm (0.95")

Assembly Components⁶

(1) Holder	Stainless steel holder MP025-0300
(2) End caps	PP end cap BSP or NPT
(4) O-rings	EPDM O-Ring 23.39x3.53 mm

⁶ Assembly components not included in the scope of supply of a MP025-0300 module. Please contact NX Filtration for the purchase of end caps or a complete Connector Set.



Available Module types

MP025-0300 UF010

Product-Code	MP025-0300UEMF-UF010-080PSN
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Storage Information

New modules in original packaging can be stored for max. 1 year from shipping date in a dry place, protected from sunlight or any heat source, at temperatures between 1 and 40°C (33 and 104°F);

Ex-factory storage solution: 84wt% water, 15wt% glycerin and 1wt% sodium metabisulfite;

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