



filtration

**Technical
datasheet**

WMC110 dNF80 Short

Nanofiltration membrane module for water and
wastewater applications

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Product description

The WMC110 dNF80 Short nanofiltration modules have the following features:

- Use for treatment of ground and surface water; reuse of industrial and municipal wastewater effluents;
- Excellent removal of color and dissolved organics, including micropollutants;
- Inside-out operation in a cross-flow filtration mode, backwashable;
- Limited pretreatment required, no coagulation and no sludge production;
- Vertical mounting in a skid and used for small flow rates and pilots;
- Excellent pH and chlorine tolerance.

Membrane specifications

Membrane material	Modified PES
MWCO ¹	800 Dalton
Min. MgSO ₄ rejection ²	76%
Membrane charge	Negative @ pH=7
Membrane fiber inner diameter	0.7 mm

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

² Test conditions: 5.0 mMol/L MgSO₄, 3.0 bar, 25°C, v=0.5 m/s

Typical operating ranges

Max. system pressure ³	10 bar
Max. transmembrane pressure ³	6 bar
Max. backwash pressure ³	6 bar
Max. temperature during operation & cleaning	40°C
pH range during operation	2-12
pH range during cleaning	1-13
Max. active chlorine concentration	500 ppm @ pH>10
Max. cumulative active chlorine exposure	250,000 ppm-hours @ pH>10
Cross-flow velocity range	0.1 – 2.0 m/s (0.66 – 12.7 m ³ /h per module)

³ Maximum pressures at 20°C.

Feed water specifications

Max. TSS	300 ppm
Max. turbidity	150 NTU
Max. particle size	150 µm

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Module specifications

Membrane Surface Area 5.6 m²

Module Dimensions

L1	670 mm	D1	110 mm
L2	131 mm	D2	1.0" BSPP
L3	66 mm	D3	5.0" BSPP
L4	802 mm	D4	110 mm
		D5	163 mm

Materials of construction

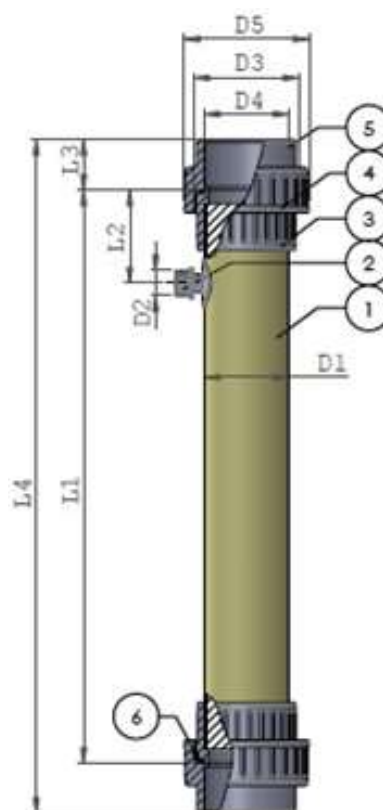
Housing PVC-U Cream

Internals PE

Material Epoxy resin

Assembly components

1. Module
2. Permeate connection
3. Union bush
4. Nut
5. Union end
6. O-ring



Product certifications



K100616



K100658



K100659

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