

Technical datasheet

WMC200 dNF40

Nanofiltration membrane module for water and wastewater applications

NX filtration

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Product description

The WMC200 dNF40 nanofiltration modules have the following features:

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

Membrane specifications

Membrane material	Modified PES
MWCO ¹	400 Dalton
Min. MgSO4 rejection ²	91%
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	6 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 (2 - 38m 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	43 m ²
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Module Dimensions

L1 1537 mm L2 184 mm L3 107 mm L4 157 mm L5 1892 mm L6 1637 mm L7 148 mm

L8 198 mm L9 184 mm

- D1 200 mm
 D2 2 ½"
 D3 1 ¼"
 D4 315 mm
 D5 342 mm
- Materials of construction

Housing	PVC-U Cream
Internals	ABS/PP/PE
Material	Epoxy resin

Assembly components

- 1. Module
- 2. Feed/concentrate connection
- 3. Nut & bolt
- 4. Permeate interconnector (closed; bottom side)
- 5. Flange (bottom side)
- 6. Intermediate flange
- 7. O-ring (permeate side)
- 8. Flange O-ring
- 9. Flange (top side)
- 10. Permeate interconnector (open; top side)
- 11. O-ring (feed side)
- 12. Permeate connection

Product certifications



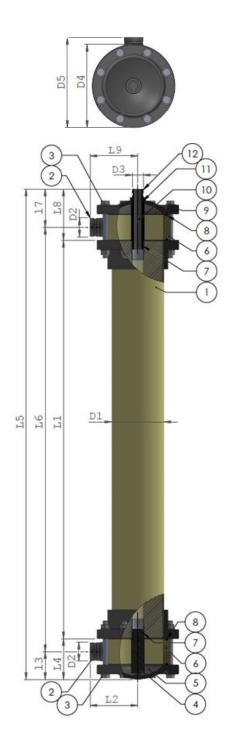
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