



filtration

**Technical
datasheet**

WMC200 dNF80

Nanofiltration membrane module for water and
wastewater applications

WMC200 dNF80

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Product description

The WMC200 dNF80 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
- 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	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 m²

Module Dimensions

L1	1537 mm	D1	200 mm
L2	184 mm	D2	2 ½"
L3	107 mm	D3	1 ¼"
L4	157 mm	D4	315 mm
L5	1892 mm	D5	342 mm
L6	1637 mm		
L7	148 mm		
L8	198 mm		
L9	184 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

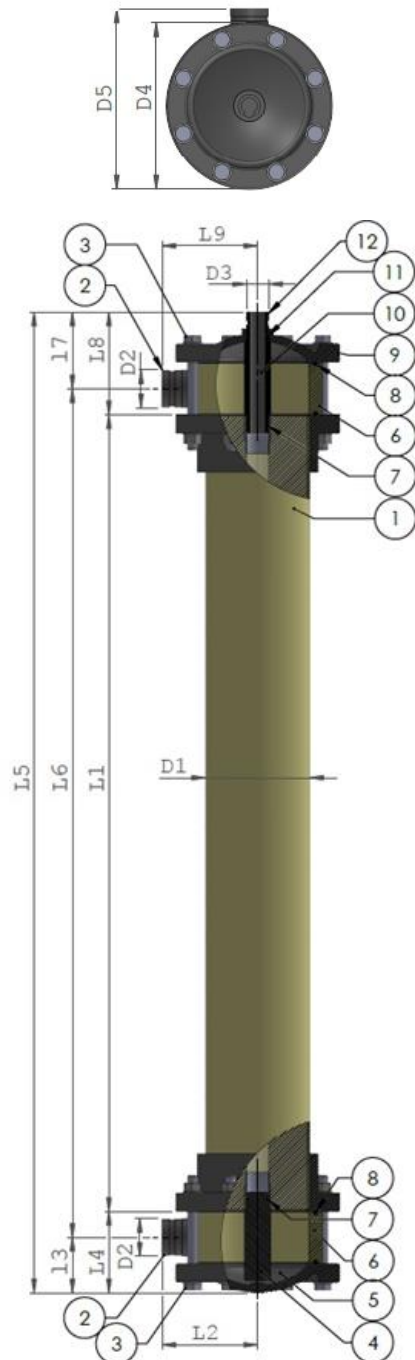
Product certifications



K100616

K100658

K100659



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