

MexFil™ WMC200 dNF40

Nanofiltration membrane module for water and wastewater applications

PRODUCT DESCRIPTION

The MexFil™ WMC200 dNF40 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, divalent ions 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.

MODULE SPECIFICATIONS

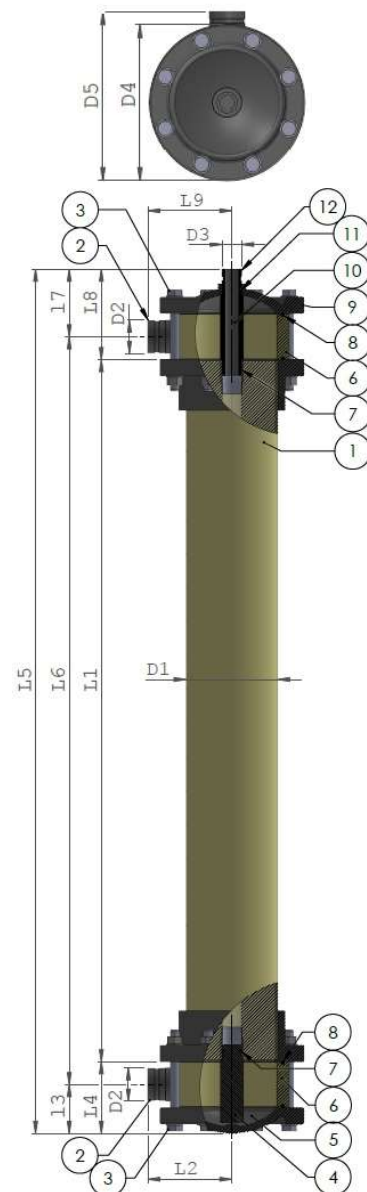
Membrane Surface Area	43 m ²		
Module Dimensions			
L1	1537 mm	D1	200 mm
L2	184 mm	D2	2 1/2"
L3	107 mm	D3	1 1/4"
L4	157 mm	D4	315 mm
L5	1892 mm	D5	342 mm
L6	1637 mm		
L7	148 mm		
L8	198 mm		
L9	184 mm		

MATERIALS OF CONSTRUCTION

Housing	PVC-U Cream
Internals	ABS/PP/PE
Potting 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



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MEMBRANE SPECIFICATIONS

Membrane material	Modified PES
MWCO ¹	400 Dalton
Min. MgSO ₄ rejection ²	91%
Membrane charge	Negative @ pH=7
Membrane fiber inner diameter	0.7 mm

¹Molecular 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.

²Test 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. active cumulative chlorine exposure	250,000 ppm-hours @ pH>10
Cross-flow velocity range	0.1 – 2.0 m/s (2 - 38m ³ /h per module)

³Maximum pressures at 20°C.

FEED WATER SPECIFICATIONS

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

PRODUCT CERTIFICATIONS



K100616



K100658



K100659

your membrane partner

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