

# MexFil™ WMC200 dNF80

**Nanofiltration membrane module for water and wastewater applications**

## PRODUCT DESCRIPTION

The MexFil™ 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.

## MODULE SPECIFICATIONS

**Membrane Surface Area** 43 m<sup>2</sup>

### Module Dimensions

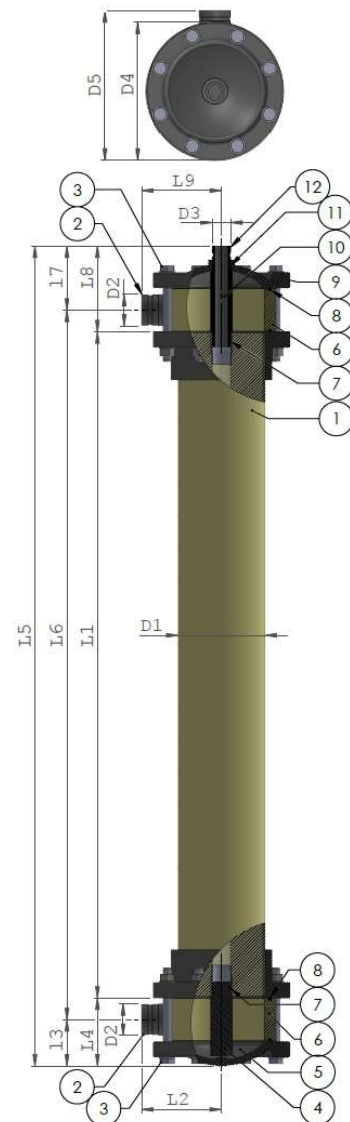
<b>L1</b>	1537 mm	<b>D1</b>	200 mm
<b>L2</b>	184 mm	<b>D2</b>	2 ½"
<b>L3</b>	107 mm	<b>D3</b>	1 ¼"
<b>L4</b>	157 mm	<b>D4</b>	315 mm
<b>L5</b>	1892 mm	<b>D5</b>	342 mm
<b>L6</b>	1637 mm		
<b>L7</b>	148 mm		
<b>L8</b>	198 mm		
<b>L9</b>	184 mm		

## MATERIALS OF CONSTRUCTION

<b>Housing</b>	PVC-U Cream
<b>Internals</b>	ABS/PP/PE
<b>Potting Material</b>	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 <sup>1</sup>	800 Dalton
Min. MgSO <sub>4</sub> rejection <sup>2</sup>	76%
Membrane charge	Negative @ pH=7
Membrane fiber inner diameter	0.7 mm

<sup>1</sup>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.

<sup>2</sup>Test conditions: 5.0 mMol/L MgSO<sub>4</sub>, 3.0 bar, 25°C, v=0.5 m/s

## TYPICAL OPERATING RANGES

Max. system pressure <sup>3</sup>	6 bar
Max. transmembrane pressure <sup>3</sup>	6 bar
Max. backwash pressure <sup>3</sup>	6 bar
Max. temperature during operation & cleaning	40°C
pH range during operation	2-12
pH range during cleaning	1-14
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 <sup>3</sup> /h per module)

<sup>3</sup>Maximum 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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