

# MexFil™ WMC110 dNF80

*Nanofiltration membrane module for water and wastewater applications*

## PRODUCT DESCRIPTION

The MexFil™ WMC110 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 and used for small flow rates and pilots;
- Excellent pH and chlorine tolerance.

## MODULE SPECIFICATIONS

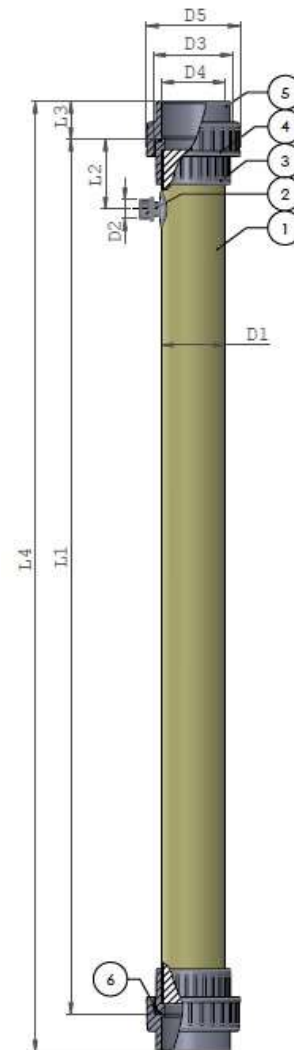
<b>Membrane Surface Area</b>	14.5 m <sup>2</sup>
<b>Module Dimensions</b>	<b>D1</b> 110 mm
<b>L1</b> 1546 mm	<b>D2</b> 1.0" BSPP
<b>L2</b> 131 mm	<b>D3</b> 5.0" BSPP
<b>L3</b> 66 mm	<b>D4</b> 110 mm
<b>L4</b> 1678 mm	<b>D5</b> 163 mm

## MATERIALS OF CONSTRUCTION

<b>Housing</b>	PVC-U Cream
<b>Internals</b>	PE
<b>Potting Material</b>	Epoxy resin

## ASSEMBLY COMPONENTS

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



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

## TYPICAL OPERATING RANGES

Max. system pressure <sup>3</sup>	10 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 for continuous operation	2-12
pH for 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 (0.66 – 12.7 m <sup>3</sup> /h per module)

<sup>3</sup>Max. 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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