

MexFil™ WMC110 dNF40

Nanofiltration membrane module for water and wastewater applications

PRODUCT DESCRIPTION

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

MODULE SPECIFICATIONS

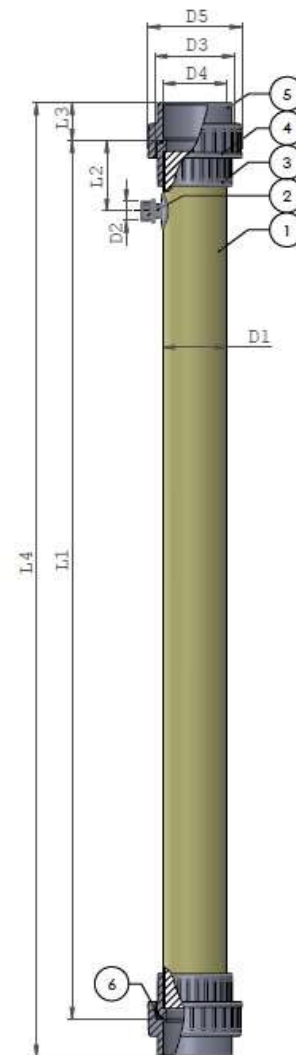
| | |
|------------------------------|---------------------|
| Membrane Surface Area | 14.5 m ² |
| Module Dimensions | D1 110 mm |
| L1 1546 mm | D2 1.0" BSPP |
| L2 131 mm | D3 5.0" BSPP |
| L3 66 mm | D4 110 mm |
| L4 1678 mm | D5 163 mm |

MATERIALS OF CONSTRUCTION

| | |
|-------------------------|-------------|
| Housing | PVC-U Cream |
| Internals | PE |
| Potting Material | 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 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: 5.0mMol/L MgSO₄, 3.0bar, 25°C, v=0.5m/s

TYPICAL OPERATING RANGES

| | |
|--|--|
| Max. system pressure ³ | 10 bar |
| Max. transmembrane pressure ³ | 6 bar |
| Max. backwash pressure ³ | 6 bar |
| Max. temperature during operation & cleaning | 40°C |
| pH for continuous operation | 2-12 |
| pH for 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 (0.66 – 12.7 m ³ /h per module) |

³Max. 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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