PRODUCT DESCRIPTION
The MexFil™ WMC110 dNF40 nanofiltration modules can be used for:
• Applications to treat ground and surface water, and for reuse of industrial or municipal wastewater effluents;
• The removal of organics, many (micro)pollutants, softening in combination with partial desalination producing potable water or process water;
• A wide range of process applications including caustic cleaning fluid recycling due to the excellent pH tolerance;
• Inside-out orientation, typically in a crossflow filtration mode, cleaning regularly by a combination of forward flush, module feed-side drain and a backwash supported by a chemically enhanced forward flush, providing perfect control of the membrane fouling rate;
• Vertical mounting inside a skid being plug-and-play compatible for the replacement of modules in existing installations.

The unique hollow fiber nanofiltration modules replace the 2-step conventional treatment of a hollow fiber ultrafiltration module followed by a spiral wound nanofiltration or reverse osmosis module by one simple step.

MEMBRANE SPECIFICATIONS
Membrane material Modified PES with a high chlorine tolerance
Nominal MWCO* 400 Da
Nominal membrane rejection for MgSO4** 93%
Membrane charge Negative charge @ pH=7
Nominal fiber ID 0.7 mm

* 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 the test conditions.

** Test conditions: 600 mg/l MgSO4, 2.5 bar, 25 °C, v=0.5 m/s.

MODULE SPECIFICATIONS
Dimensions
Length (L1) 1537 mm
Outer diameter housing (D1) 110 mm (5 inch)
Permeate connector (d1) 1.0” BSPP
Permeate connector position (l1) 131 mm
Nominal membrane area 14.0 m²

Connections
Type 5.0” BSPP (standard 3-piece coupling)
Outer diameter end cap connector (D2) 163 mm

Materials of constructions
Housing PVC-U Cream
Internals PE netting
Potting material Epoxy resin

PRODUCT CERTIFICATION
According to NSF, KTW and Kiwa ATA regulations.

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