MW Series

FACT SHEET

Industrial oil/water separation UF elements

The M-Series Ultrafillic* membranes are made of polyacrylonitrile (PAN) polymer. This membrane is characterized by a pore size of 0.01 microns with an approximate molecular weight cut-off of 20K-50K Dalton. To avoid fouling by "free" oils, the MW–series elements have been engineered to be extremely **hydrophilic** (water attracting) as compared to conventional membranes that are oleophilic (oil attracting).

MW Elements are used for oil/water separation and pretreatment of process water before reverse osmosis or nanofiltration.

Table 1: Element Specification

Membrane	M-series, polyacrylonitrile

Model	Spacer mil (mm)	Active area ft² (m²)	Outer wrap	Part number
MW2540F30	30 (0.76)	28 (2.6)	Fiberglass	1233383
MW4040F50	50 (1.27)	62 (5.8)	Fiberglass	3050562
MW8040C50	50 (1.27)	264 (24.7)	Cage	1220654
MW8040F50	50 (1.27)	269 (25.0)	Fiberglass	1229852

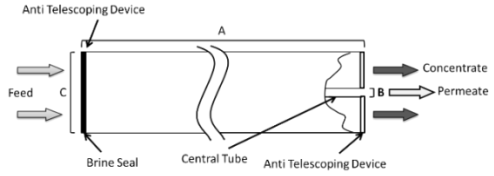

Figure 1: Element Dimensions Diagram, Female 8040

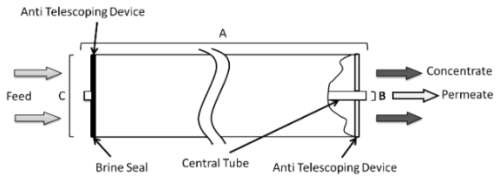

Figure 2: Element Dimensions Diagram, Male 2540 & 4040

Table 2: Dimensions and Weight

Model	Type	Dimensions, inches (cm) A	B	C	Boxed Weight lbs (kg)
MW2540F30	Male	40.0 (101.6)	0.75 (1.9)	2.4 (6.1)	4 (1.8)
MW4040F50	Male	40.0 (101.6)	0.75 (1.9)	3.9 (9.9)	11 (5.0)
MW8040C50	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (15.9)
MW8040C50	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (15.9)

Table 3: Operating and CIP parameters

Typical Operating Flux	5 - 20 GFD (8 – 34 LMH)
Maximum Operating Pressure	100psi (700kPa)
Maximum Temperature	For fiberglass elements (1): Continuous operation: 122°F (50°C) Clean-In-Place (CIP): 122°F (50°C)
	For cage elements: Continuous operation: 176°F (80°C) Clean-In-Place (CIP): 122°F (50°C)
pH Range	Continuous operation: 3-9, Clean-In-Place (CIP): 2-11 (2)
Maximum Pressure Drop	Over an element: 15psi (103kPa) Per housing: 60psi (414kPa)
Chlorine Tolerance	200,000 ppm-hours

(1) Element sized 8040 can be used and flushed at higher temperature. Contact your Veolia representative for further technical recommendations.

(2) Refer to Cleaning Guidelines Technical Bulletin TB1194EN.

Note: Oil/water separation applications require the selection of materials compatible with the content of the highly concentrated solution.

Veolia Water Technologies
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