

MICRODYN RO

High Rejection

Brackish Water RO Element

The MICRODYN RO series of brackish water RO membranes is ideal for water purification applications. These elements feature our best membrane for upgrading an RO system and offer very high solute rejection. MICRODYN RO 8040-BW-400/34 elements are available to meet all of your new equipment and direct replacement needs.

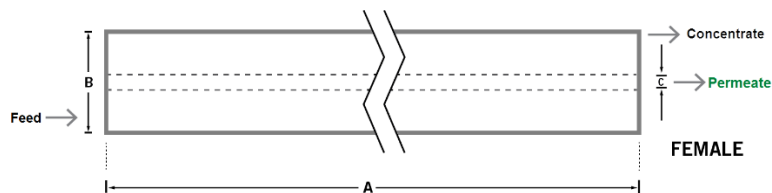
MEMBRANE CHARACTERISTICS

Membrane Chemistry	Thin-Film Composite Polyamide
Construction	Spiral-Wound Membrane Element with Fiberglass Outerwrap
Stabilized Salt Rejection (%)	99.5
Minimum Salt Rejection (%)	99.0

ELEMENT SPECIFICATIONS

Model	8040-BW-400/34
Permeate Flow - m³/day (GPD)^a	40.5 (10,700)
Membrane Area - m² (ft²)^b	37.2 (400)
Feed Spacer Thickness (mil)^b	34

PHYSICAL DIMENSIONS



Model	8040-BW-400/34
Dim. A - mm (inches)	1,016 (40.0)
Dim. B - mm (inches)	201 (7.9)
Dim. C - mm (inches)^c	28.6 (1.125)
Permeate Tube	Female
Element Weight - kg (lb)^d	16 (36)

a Test conditions: 2,000 ppm NaCl, 15.5 bar (225 psi), 25°C (77°F), 15% recovery, pH 8.0, 30 minutes operation. Flow rates will be no more than 15% below the values shown. Product specifications may change without notice as design revisions occur.

b All models on this sheet have fiberglass outer wrap and diamond shaped feed spacers.

c Diameters for Dimension "C" are as follows. For Female elements, "C" is the Inner Diameter.

d Shipping weight is dependent on packaging material and quantity shipped.

OPERATING PARAMETERS

Maximum Operating Pressure	41 bar (600 psi)
Maximum Operating Temperature	45°C (113°F)
Cleaning pH Range¹	1.0 – 12.0
Chlorine Tolerance²	< 0.1 ppm
Maximum Pressure Drop	1 bar (15 psi) per element; 4 bar (60 psi) per housing
Maximum SDIs	5.0
Maximum Turbidity	1 NTU

¹ Refer to temperature and pH limits in Membrane Cleaning Guide - Water Application Elements (TSG-C-001).

² Pretreatment is recommended for the removal of free chlorine and other oxidizing agents to prevent damage to membranes. Oxidizing agents, such as free chlorine, in contact with polyamide membranes may result in shortened operating life or membrane failure. Such oxidation damage is excluded from warranty. Refer to Membrane Operating Guide - Recommendations for Water Purification (TSG-O-012).

IMPORTANT INFORMATION

Start-up: MICRODYN-NADIR recommends flushing elements for 30 minutes at low pressure and discarding permeate during the flush prior to operation. For a more detailed start-up procedure, please see Element Start-Up Guide – System Start-Up (TSG-O-005).

Cleaning: MICRODYN RO membrane elements must be cleaned periodically to ensure proper operation and to prevent membrane damage. Please see Membrane Cleaning Guide – Water Application Elements (TSG-C-001).

Storage: MICRODYN RO membrane elements must be stored appropriately to ensure proper operation and to prevent membrane damage. Please see Element Storage Guides (TSG-O-009 & TSG-O-010).

CUSTOMIZABLE SPECIALTY ELEMENTS

MICRODYN-NADIR offers a full range of membranes and element designs for challenging water and process applications. Technologies include low-fouling RO, submerged UF, continuous high temperature, ultra-high pressure, unique sanitary designs and more. Contact MICRODYN-NADIR to customize a product that satisfies your specific requirements.

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