

RiverFlow HR 4040

High Rejection Brackish Water RO Membrane

The Membrania RiverFlow HR series of brackish water reverse osmosis (RO) membranes is engineered to meet the latest standards in performance and quality, standing shoulder to shoulder with the leading solutions on the market. Offered in a variety of spiral-wound configurations, RiverFlow elements are ideal for both new systems and retrofit projects, ensuring seamless integration across a wide range of applications.

SPECIFICATIONS

Permeate Flow:	2700 gpd / 10,2 m ³ /day
Membrane Area:	92 ft ² / 8,5 m ²
Salt Rejection:	99,5% (99,3% minimum)
Feed Spacer:	28 mil / 0,864 mm
Membrane Chemistry:	Thin-Film Composite Polyamide
Construction:	Spiral-Wound Fiberglass Outerwrap

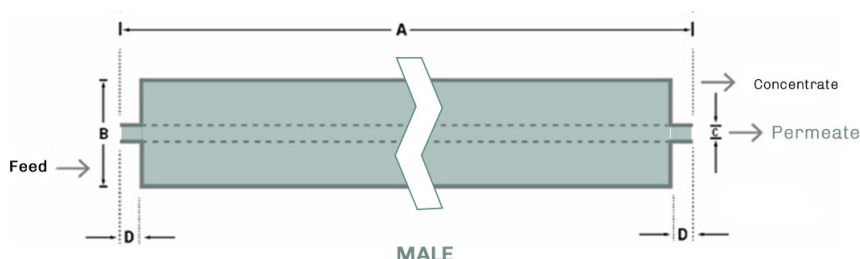
OPERATING PARAMETERS

Maximum Operating Pressure:	15,5 bar (225 psi)
Maximum Operating Temperature:	45 °C (113 °F)
Cleaning pH Range:	1.0 12.0
Chlorine Tolerance:	< 0.1 ppm
Maximum Pressure Drop:	1 bar (15 psi) per element
Maximum SDI15:	5.0
Maximum Turbidity:	1 NTU

Test conditions: 2,000 ppm NaCl, 15,5 bar (225 psi), 25 °C (77 °F), pH 7.0, 30 minutes operation. Test condition recovery is 15%. Flow rates will be no more than 15% below the values shown. Product specifications may change without notice as design revisions occur.

PHYSICAL DIMENSIONS

Dim. A – mm (inches)	1,016 (40.0)
Dim. B – mm (inches)	99 (3.9)
Dim. C – mm (inches)	19.1 (0.75)
Element Weight – kg (lb)	4 (9)



- This model has a fiberglass outerwrap and diamond shaped feed spacers.
- Diameters for Dimension "C" are as follows. For Female elements "C" is the inner Diameter. For Male elements "C" is the outer Diameter.
- Male elements have the protruding permeate tube indicated as "D" in the diagram. Dimension "D" is 1.05 in (26.7 mm).
- Shipping weight is dependent on packaging material and quantity shipped.

ADDITIONAL INFORMATION

Start-up: Membrania 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.

Cleaning: Membrania elements must be cleaned periodically to ensure proper operation and to prevent membrane damage. Please see Membrane Cleaning Guide - Water Application Elements.

Storage: Membrania elements must be stored appropriately to ensure proper operation and to prevent membrane damage. Please see Element Storage Guides.

° Refer to temperature and pH limits in Membrane Cleaning Guide - Water Application Elements.
° 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.



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