Membrania™
by DC Solutions

OceanFlow HR 4040

High Rejection Seawater RO Membrane
Low Fouling

The Membrania OceanFlow HR series of seawater reverse osmosis (RO) membranes are designed to the latest performance and quality standards, it ranks alongside the most advanced membranes on the market. Available in wide range of spiral wound configurations. Membrania elements cater to both new installations and replacements, ensuring compatibility with diverse system requiments.

SPECIFICATIONS

Permeate Flow:	1700 gpd / 6,4m³/day
Membrane Area:	85 ft² / 7,9 m²
Salt Rejection:	99,6% (99,4% minimum)
Feed Spacer:	34 mil / 0,864 mm
Membrane Chemistry:	Thin-Film Composite Polyamide
Construction:	Spiral-Wound Fiberglass Outerwrap

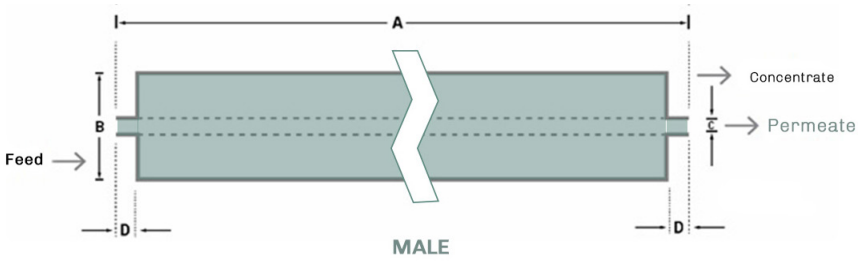
OPERATING PARAMETERS

Maximum Operating Pressure:	69 bar (1,000 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: 32,000 ppm NaCl, 55 bar (800 psi),25 °C(77 °F),pH 8.0, 30 minutes operation. Test condition recovery is 10%.
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)



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

ADITIONAL 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 othe roxidizing agents to prevent damage to membranes. Oxidizing a gents, such as free chlorine,in contact with polyamide membranes may result in shortened operating life or membranefailure. Such oxidation damage is excluded from warranty.
Refer to Membrane Operating Guide - Recommendations for Water Purification.

100% WET TESTED
MADE IN EUROPE
NSF

www.membrania.com

DC Solutions s.r.o, Voskovcova 1075/51, 152 00 Praha 5, Czech Republic