

RiverFlow LE 2540

Low Energy Brackish Water RO Membrane

The **RiverFlow LE 2540** is a low-energy reverse osmosis membrane element manufactured from advanced aromatic polyamide thin-film composite (TFC) membrane technology. It is designed for the efficient desalination of low-salinity brackish water, including surface water, groundwater and municipal drinking water.

Membrane delivers high salt rejection and permeate quality while operating at significantly lower feed pressures than conventional BW RO membranes. This resulted in reduced energy consumption, lower operating costs and reliable long-term performance without sacrificing productivity.

SPECIFICATIONS

Permeate Flow:	900 gpd / 3.4 m ³ /day
Membrane Area:	28 ft ² / 2.6 m ²
Salt Rejection:	99.5% (99.2% minimum)
Feed Spacer:	28 mil / 0.864 mm
Membrane Chemistry:	Thin-Film Composite Polyamide
Construction:	Spiral-Wound Fiberglass Outerwrap

OPERATING PARAMETERS

Maximum Operating Pressure	41.36 bar / 600 psi
Maximum Operating Temperature	45 °C / 113 °F
Cleaning pH Range	1.0 – 13.0
Chlorine Tolerance	< 0.1 ppm
Maximum Pressure Drop Element	1.03 bar / 15 psi
Maximum SDI15	5.0
Maximum Turbidity	1 NTU

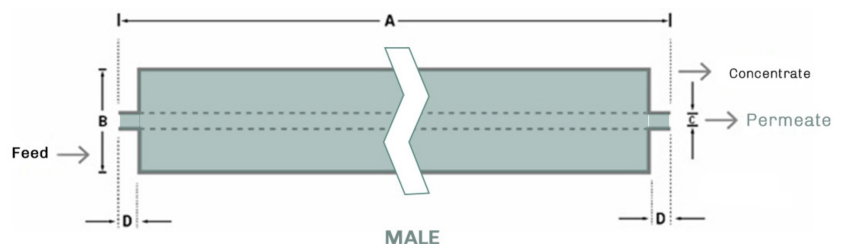
Test conditions: 2,000 ppm NaCl, 150 psi (10.3 bar), 77°F (25°C), pH=7±0.5, and 15% recovery.

Permeate flows for individual elements may vary +/-15%.

Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.

PHYSICAL DIMENSIONS

Dim. A	1016 mm / 40.0 in
Dim. B	61 mm / 2.4 in
Dim. C	19 mm / 0.75 in
Dim. D	28.6 mm / 1.25 in
Weight	1.9 kg / 4.2 lb



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.

Regulatory: This product may be subject to drinking water application restrictions in some countries. Please check the application status before use and sale.



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