

# RiverFlow HR 2540

## High Rejection Brackish Water RO Membrane

The **RiverFlow HR 4021** is designed for the desalination of brackish water, surface water, and groundwater with total dissolved solids (TDS) up to 5,000 mg/L. The membrane is suitable for a wide range of commercial and industrial water treatment applications, providing high-quality permeate and reliable long-term performance.

Typical applications include industrial process water production, brackish water desalination, wastewater reclamation and reuse, as well as advanced water treatment systems requiring high salt rejection and consistent operating efficiency.

### SPECIFICATIONS

|                     |                                         |
|---------------------|-----------------------------------------|
| Permeate Flow:      | 900 gpd / 3.4 m <sup>3</sup> /day       |
| Membrane Area:      | 28 ft <sup>2</sup> / 2.6 m <sup>2</sup> |
| 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    | 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               |

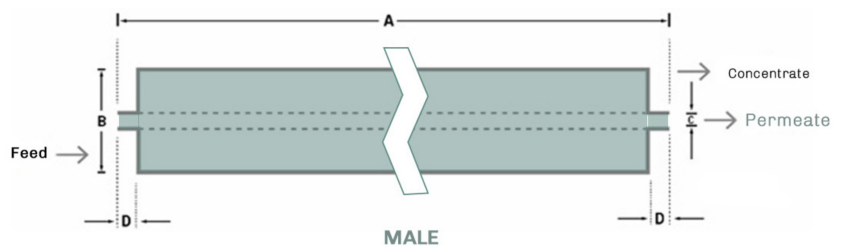
**Test conditions:** 2,000 ppm NaCl, 225 psi (15.5 bar), 77°F (25°C), pH=7±0.5, and 15% recovery.

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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