

RiverFlow HF 4021

High Flow Brackish Water RO Membrane

The **RiverFlow HF 4021** is a high-flow reverse osmosis membrane element designed to provide high permeate production at very low operating pressures while maintaining required salt rejection. Its efficient design helps reduce energy consumption and operating costs.

The membrane is suitable for treating low-salinity feed water (TDS up to 500 mg/L), including municipal tap water, surface water, and groundwater. Typical applications include drinking water production, purified water systems, and bottled water manufacturing.

SPECIFICATIONS

Permeate Flow:	1200 gpd / 4.5 m ³ /day
Membrane Area:	36 ft ² / 3.3 m ²
Salt Rejection:	99.2% (98.5% min.)
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

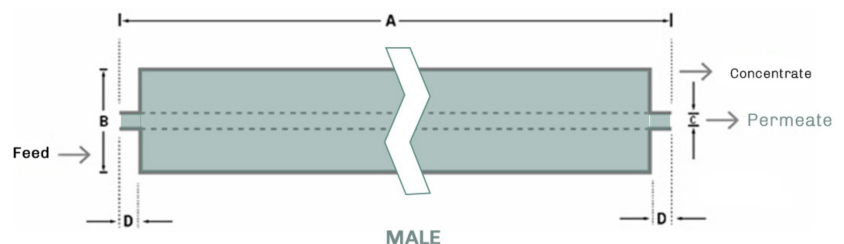
Test conditions: 500 ppm NaCl, 100 psi (6.9 bar), 77°F (25°C), pH=7±0.5, and 8% recovery.

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	533.4 mm / 21.0 in
Dim. B	99 mm / 3.9 in
Dim. C	19 mm / 0.75 in
Dim. D	26.5 mm / 1.04 in
Weight	2.3 kg / 5.1 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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