Aqua Membranes
PRINTED SPACER TECHNOLOGY®

PRODUCT DATA SHEET

AM-BW505-ECO1.0

Aqua Membranes is the only company in the world that precisely controls how water flows across the membrane surface. By replacing the mesh spacer with our Printed Spacer Technology®, we achieve energy savings, increased flow, reduced cleaning frequency, and longer membrane life. Our membranes have proven these outcomes at commercial installations around the world.

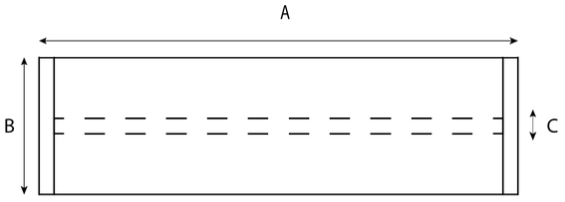
TECHNICAL SPECIFICATIONS

Surface Area: 505 ft^2 (46.9 m^2)
Permeate Flow: 12,650 gpd (47.9 m^3/d)
Rejection: 99.5%
Feed Spacer Thickness: 19.5 mil

- Performance is based on data taken after 24 hours of run time at test conditions.
- Permeate flow can vary ±15% of the value listed.
- Permeate flow and rejection is based on the following test conditions: 2,000ppm NaCl, 225psi (15.5 bar), 77°F (25°C), and 15% recovery.

ELEMENT DIMENSIONS

Length (A): 40 in (1016 mm)
Diameter (B): 7.89 in (200 mm)
Center Tube Diameter (C): ID 1.125 in (28.6 mm)



ALL DATA IS VERIFIED BY CLIIR.
CONTACT OUR TEAM TO OPTIMIZE YOUR DESIGN.

OPERATING LIMITS

Max Applied Pressure: 600 psi (41 bar)
Chlorine Concentration: <0.1ppm
Max Temp: 113°F (45°C)
pH Range: 2-12
Max SDI: 5
Max Turbidity: 1.0 NTU
Max Feed Flow: 175 gpm (39.7 m^3/h)
Pressure Drop: 6 psid at 64 gpm

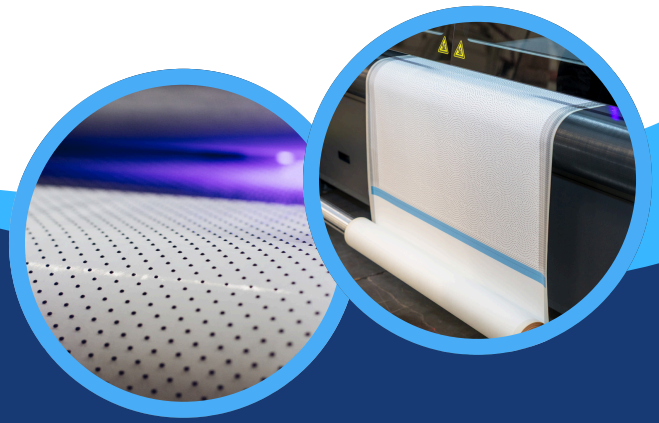
- The customer is responsible for the effects of incompatible chemicals and lubricants on elements.
- Permeate from the first hour of operation should be discarded.
- It is recommended for prolonged shutdowns to immerse elements in an approved preservative solution.
- Visit **www.aquamembranes.com/documentation** for additional loading and cleaning instructions.

ABOUT US

Aqua Membranes Inc. manufactures and develops spiral-wound membrane elements using our groundbreaking Printed Spacer Technology®, replacing legacy feed spacer mesh. By directly printing the feed channel spacer onto the membrane surface, we significantly enhance membrane performance— delivering the most sustainable, efficient, and cost-effective solutions on the market. Our technology reduces fouling, saves energy, and increases output, optimizing both design and operation. Aqua Membranes envisions Printed Spacer Technology® as a cornerstone of a greener water future for our planet and its people.

ADVANTAGES OF PRINTED SPACER TECHNOLOGY®

- Up to 30% energy savings
- Up to 30% increase in flow
- 4x reduction in cleaning intervals
- 50% pressure drop reduction
- Plug-and-play retrofit
- Decreased OPEX and CAPEX



GET IN TOUCH TO SEE HOW MUCH YOU CAN SAVE

www.aquamembranes.com

sales@aquamembranes.com