

Location: Outside US



AMI advanced membrane test stands expedite product innovation

Designing and building custom membrane test skids requires advanced engineering and customization capabilities.

Challenge

A company supplies and distributes a range of industrial equipment and machinery to clients worldwide.

The company's products include test units, casting machines, glue machines, pressure testers, and various other products used in different manufacturing processes.

The company's client required membrane test stands to test brackish water and seawater membrane elements for their product development efforts.

These highly customized pilot plants would need to accommodate both brackish water (BWRO) and seawater (SWRO) membrane elements for testing.

Applied Membranes was selected for the project.

Solution

Applied Membranes designed and built two (2) state-of-the-art 8 x 40" custom membrane test stands each with a capacity of **25 GPM (6 m3/h)**.

- One **SWRO** 1000 psi test stand with 1500-gallon feed tank
- One **BWRO** 300 psi test stand with 1500-gallon feed tank

These highly specialized AMI RO test stands can accommodate different 8 x 40" membrane types and simulate different operating conditions.

Each test stand includes pressure gauges, temperature gauges, electrical enclosure, sample valves, and high-pressure feed pump system.

Test stands are skid-mounted for ease of installation and portability.

Key Features:

- Advanced instrumentation, sensors, pressure switches and gauges
- Source water testing tanks
- Programmable Logic Controller (PLC)

Results

This project demonstrates Applied Membranes' proficiency in developing highly specialized RO systems and pilot plants.

Applied Membranes engineered and manufactured membrane test stands to meet the client's specifications.

Advanced engineering: Equipped with advanced instrumentation and controls, these systems facilitate gathering insights and assessing membrane performance.

Reliable platform: AMI systems provide a reliable platform for conducting comprehensive testing, enabling the client to make informed decisions regarding product development and deployment.

Trusted partner: Applied Membranes serves as a preferred partner for companies seeking advanced solutions in the water treatment industry.

