Customer Success Story

Location: California

AMI custom pilot plants unlock innovation

AMI pilot plants help organizations validate the effectiveness of their solutions and refine their strategies to better meet the needs of their customers.

Challenge

A company needed a highly customized pilot plant to test and their validate solutions in a controlled environment, ensuring they meet required standards and objectives.

The company reached out to Applied Membranes for assistance.

Solution

Applied Membranes designed, built, and commissioned **two (2)** custom, robust ultrafiltration (UF) systems with a total capacity of **200 GPM (47 m3/h)**.

These AMI packaged UF treatment equipment plants are equipped with state-of-the-art components and technologies, including backwash pump and recirculation pump to optimize performance and cleaning cycles and maintain consistent flow rates.

Systems were tested at Applied Membranes ISO:9001 facility prior to shipment and installation.

Key Features:

- Antiscalant
- Chemical injection system
- Clean-in-place system
- Programmable Logic Controller (PLC)
- Backwash pump with VFD and tank
- Recirculation pump

Results

Applied Membranes built custom UF membrane treatment system pilot plants to empower the client to develop and advance their products and solutions.

Validation of solutions: With AMI pilot plant, the client could validate and optimize their proposed automation solutions in a controlled environment. By simulating conditions, they could fine-tune control logic and adaptive strategies for maximum efficiency and performance.

Customization: The flexibility of AMI custom pilot UF plants allowed the client to test different configurations and parameters to optimize outcomes for their customers.

Demonstration: The pilot UF plants serve as valuable demonstration tools, enabling the client to showcase the capabilities of their solutions.

Learning and innovation: AMI pilot plants offer a proactive approach for organizations to innovate their product offerings, identify risks, and experiment with new technologies and processes in a controlled environment.