Customer Success Story

Location: US

Applied Membranes Inc. elevates aquaculture farm production yields and quality with membrane technology

In the aquaculture industry, improving production yields is key to meet the increasing demand for high-quality seafood.

Challenge

Our customer cultivates premium shellfish in the Pacific Northwest. Seeking to elevate their aquaculture farming operations, they wanted to build a sustainable food ecosystem for their shellfish.

The ability to grow shellfish efficiently is paramount for sustainable business operations.

Part of these efforts include growing pure algae to serve as high-quality food for shellfish seedlings and promoting aquaculture growth while reducing environmental impact.

Solution

To meet the customer's needs, Applied Membranes supplied key components including AMI hollow fiber ultrafiltration (UF) membranes and pressure vessels for the customer's aquaculture system.

AMI membranes played a pivotal role in purifying water, removing bacteria and viruses, and producing pure algae as a primary food source for the shellfish.

Key Components:

- M-U4040HF09: 4.0" x 40" hollow fiber ultrafiltration (UF) membranes
- Pressure vessels
- Additional components

Results

AMI membranes and components empowered the aquaculture farms to foster the growth of shellfish, enhancing their overall yield and productivity.

- **Improved production yields:** AMI membranes enabled the growth of high-quality algae, which, in turn, served as excellent food for shellfish seedlings.
- **Sustainable operations**: AMI membranes significantly improved production yields while simultaneously reducing operational costs.
- **Cost efficiency**: By reducing the costs associated with low yields and contaminated seawater, AMI membranes contributed to more efficient aquaculture operations.

Our partnership with the shellfish farm highlights the transformative impact of AMI membrane technology in creating a sustainable food ecosystem, improving yields, and reducing costs within the aquaculture industry.

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