



## Desalination, a reliable solution for Aquaculture

Desalination can provide several benefits for aquaculture by providing a source of high-quality freshwater to support the growth and health of aquatic species.

### Why Desalination for Aquaculture?

The process of desalination removes salt and other minerals from seawater, making it suitable for use in aquaculture systems. This can be especially beneficial in regions where freshwater resources are limited or unreliable. Additionally, desalination can help to reduce the need to discharge wastewater and discharge from aquaculture systems into the environment, which can help to reduce environmental impacts associated with aquaculture.

### Aquaculture farms use desalination to provide fresh water for their fish around the world

United Emirates, The Abu Dhabi Fish farming company. Israel, Western Australia, Chile, Spain Mediterranean coast, Saudi Arabia are among other countries that use desalination to provide fresh water for their fish farms.

### Key Benefits

- Desalination can help to maintain optimal water conditions for certain species of fish and shellfish, which can improve their growth and survival rates.
- Desalination is also a way to reduce the dependence on wild fish stocks for feed, as the high-quality water can be used to cultivate microalgae as fish feed.
- Desalination can also provide a way to recycle water in closed-loop systems, which can help to conserve water and reduce the amount of water that needs to be discharged from the system.
- Desalination can also reduce the risk of disease transmission and the spread of invasive species.

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## The Solution: Desalination by reverse osmosis for aquaculture

Reverse osmosis is a method of water filtration that removes impurities from drinking water by using a semi-permeable membrane to trap big impurities and contaminants including chlorine, salt, and grime. Clean freshwater is produced when air moves from the more concentrated side of the RO membrane, which has more impurities, to the less concentrated side, which has fewer contaminants.

Through Reverse Osmosis Technology, ADVANCED Equipment and Services produces standard and custom Reverse Osmosis seawater desalination systems. Our Seawater RO portfolio includes systems to fit needs in small, medium, and large size projects. Seawater Desalination systems come with Solar, Skid, or Containerized options.



## Who we are?

ADVANCED Equipment and Services is a global provider of Reverse Osmosis (RO) and water purification equipment with broad experience in the designed and fabrication of Desalination and Brackish water systems. We served the municipalities, commercial and industrial markets, manufacturing efficient equipment, simple and easy to operate and maintain with high quality materials at some of the most competitive prices in the industry.

## Freshwater can provide several benefits in the shrimp industry, particularly in terms of disease control and disinfection

### → Decease control & disinfection

Freshwater can help to reduce the risk of disease transmission by reducing the concentration of pathogens in the water.

### → Optimal water conditions

Shrimp are sensitive to changes in water temperature, pH, salinity and oxygen levels. Freshwater is essential to maintain optimal water conditions for shrimp.

### → Reduced environmental impact

Using freshwater can also help to reduce the environmental impact of shrimp farming by reducing the need to discharge waste water and discharge into the environment.

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