

# Animal welfare

## top priority when transporting live seafood between ecosystems

Factors as health of livestock (Aquatic Animal Health), food safety and protecting local ecosystems are vital elements in the future of freight systems for live shellfish.

We have spent significant research and development resources on addressing these issues, particularly in the designs of our docking stations and water purification technologies.

In order to avoid the spread of dangerous shellfish diseases, Aqualife Logistics invested in a long, intensive research and development phase before launching the world's most advanced intergrated supply-chain system for live aquatic animals.

"The solution has been through comprehensive tests at the

producers to ensure we only allow healthy stocks and certified water into our tanks. We also insisted upon materials for the tanks that are easy to disinfect and clean completely," says Lars Nannerup, CEO.

The use of special water filtration technologies means that Aqualife can emit water from the shellfish tanks without the risk of spreading disease or pollution. The waste water goes through a special process where all remaining cells are decomposed, to eliminate the risk that pathogens such as bacteria, viruses or pathogens, or other unwanted species escape into the local waters and damage ecosystems.

"We have even developed membrane filtering to eliminate any chemicals, paint and oil from exiting the water," says Lars Nannerup.

### ⦿ Aquatic Animal welfare:

Factors as health of livestock, food safety and protecting local ecosystems are vital elements in the future of freight systems for live seafood.

### ⦿ Meeting the challenge:

Aqualife has spent significant research and development resources on addressing these issues during the design of their innovative transport technology.

### ⦿ Travelling in own ecosystem:

The transportation time is not an issue using the Aqualife system - the shellfish can stay for long periods in the tanks thus retaining their natural freshness. This means a more steady flow of products for the distributors who can gain more stable prices on the market. End users will not experience the fluctuation in prices that is seen today.

### ⦿ Better taste and conscience:

Until now the shellfish have been air freighted as "dry cargo". This stresses the shellfish and they suffocate slowly during the flight. The Aqualife system puts shellfish into a state of hibernation, which reduces stress.

### ⦿ Focus on food safety:

Before shipping, the transport water is deperated and sterilised for all bacteria – tests have shown that even after transatlantic freights the water quality is significantly below the allowed bacteriological tolerances.

### ⦿ Unbroken cold chain:

During the freight the temperature is maintained in an un-broken and closely monitored cold-chain. During freight the temperatures are registered by the container, a special GPS alarm on the container will alert the operators in case of power failure.

### ⦿ Purification technology:

The Aqualife docking systems can break down all resistant cells in the transport and wastewater. Including traces of chemical and oil – the Aqualife membrane filters are capable of purifying down to 0.01 Microns.

