

Food & Beverage – Water Treatment

# Sustainable Swiss Shrimps

Seawater treatment in industrial shrimp farming  
in Rheinfelden AG, Switzerland

Sustainable and cost-efficient processes  
with fully automated complete system  
from GF Piping Systems.

# Reliable, efficient and sustainable.

SWISSSHRIMP+

SwissShrimp AG is the first Swiss shrimp farm in Rheinfelden to produce sustainable and antibiotic-free shrimps of the best Swiss quality. With its complete piping system, Georg Fischer has ensured the safe and reliable automation of seawater treatment processes at SwissShrimp. This resulted in real-time control, and in cost-efficient and sustainable farming.

## Project background

The young company SwissShrimp produces Swiss shrimps in sustainable quality. The core element for the profitability of the company is an efficient and reliable breeding process, which leads to healthy shrimps. In breeding, the precise adherence to and regulation of the appropriate water values is an essential factor in achieving a near-natural aquaculture. For the new construction of this breeding facility, precise control and dosing processes were essential requirements. To eliminate human error, the company opted for a concept that monitors all parameters online, in real time, and enables trouble-free, fully automatic control. Four redundant systems reduce the risk of accidents.

## Technical solution selected

For Michael Siragusa, Technical Managing Director of SwissShrimp, it was already clear at the beginning of the project that the control accuracy and reliability of the automation would be in direct proportion to the quality and yield of his breeding process. In addition, the selection of a competent experienced partner with a full range of products and high product quality was important. GF Piping Systems was quickly identified as the ideal partner. Even during the planning phase, GF Piping Systems (Switzerland) AG was thoroughly involved in the complex piping and instrumentation flow diagram in order to design the piping components, sensors and control valves to meet the high precision requirements.

## Improvements achieved

The precise temperature control reduces water loss through evaporation to a minimum. The online sensor technology enables a better understanding of the processes, which, together with real-time control increases the breeding yield and raises shrimp quality. In addition, this saves on expensive emergency operations on demand and reduces the risk of accidents. With a new type of PE feed pipe system further improvements have been achieved.



Water values always under control: industrial skimmer and denitrification.



Fully automated online process control in real time.

## Customer benefits

- **Expert, local support with process understanding - from planning to commissioning.**
- **Safe and corrosion-free complete system: piping components, sensors, fittings and automation.**
- **Online real-time monitoring thanks to precise sensor technology and reliable automation.**

## Your contact

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