

CASE STORY

Enjoy all these benefits when you choose a Bernoulli filter

- Simple and ingenious cleaning function
- Low and constant pressure drop
- Low flushing pressure
- Easy installation
- Excellent corrosion resistance
- Robust and reliable

Wellboats in Puerto Montt, Chile



The salmon industry

To reach their target fish in the best physical condition and with less stress, Patagonia Wellboats has a fleet of specialized vessels for the transportation of salmon and trout. Patagonia Wellboats is a pioneer in moving services of live fish on board and made the first trip with live fish in 1993 by the ship Patagón I. All ships of last generation Patagonia Wellboats have been built in the shipyards of ASENAV in Valdivia, Chile.

Wellboats can be best described as a unique kind of fishing and housing facility vessels. Through these types of ships, the fishes are bred and taken care of till they can be dispatched to the appropriate centers of processing. Since the fishes literally thrive till the end stage of their processing, there is no threat of their contamination and other possible complications because of storing negligence.

The challenge

The biggest challenge while utilizing these types of ships in the fisheries sector, is to ensure that the storing facilities are hygienic and the water in the containers in which the fishes are housed, are changed periodically. Just like any other aquarium, the water in which the fishes are housed need to be changed and the right temperature needs to be maintained throughout. But while fresh water is transferred into the housing container, many fishing vessels dump the older water – unclean and contaminated – into the sea or the ocean. This leads to pollution of the entire oceanic ecosystem and potential adverse effects for the aquatic lives contained within it.



BERNOULLI
SYSTEM

CASE STORY

The solution

As a mode to combat this challenge, the wellboat Patagón VII has installed two BSG 300 Bernoulli Filters with 0,3 mm filter baskets, filtering up to 2 400 m³/h water. The idea is to use the filters prior to UV sterilization before the water is pumped into the sea. Therefore the filters are located after the outlet of the fish tank. Prior to being disposed of in the ocean, the unclear water will then be processed through UV sterilization to prevent undue oceanic contamination. The water from the back flushing of the filter is transported to another tank for a process of disinfection by chlorine before it is pumped into the sea. In that way the water of the back flushing is also sterilized.



Facts and figures

Customer: Patagonia Wellboats
Location: Puerto Montt, Chile
Application: Prefilter UV disinfection
Filter model: 2 x BSG 300
Filtration: 0,3 mm
Operating flow: 2 x 750 m³/h
Design pressure: 6 bar
Operating pressure: 1,5 bar
Year: 2011