

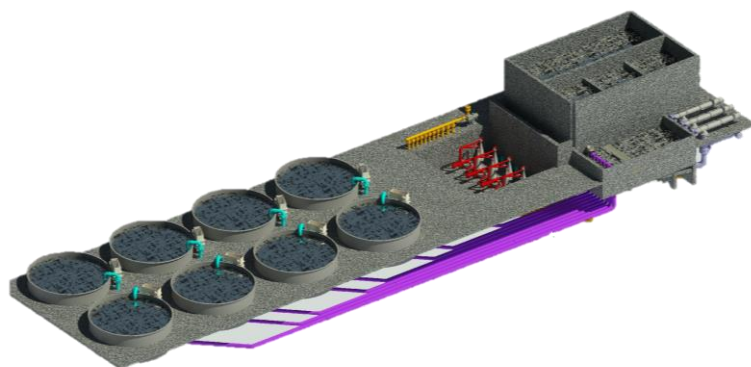


# NAC – First-feeding CONCEPT

Full RAS setup, optimal for first-feeding/weaning period. Scalable and adjustable.

Supports system follows:

- Cooling system.
- pH regulation system.
- Sludge pump system.
- Oxygenating injection and control system.
- Biological filtration.
- UV treatment.
- Feeding system.
- Emergency oxygen system.



## Description

The technology has undergone successful testing over the past five years. The initial batch was implemented in a large post-smolt system in Norway, which, for the past two years, has been producing Atlantic salmon fry.

The system operates with a salinity level of 0,5‰ and a range of 11-14 °C achieving a 98% water recycling rate.

Biofiltration is fully integrated with the SCADA system for automated control, with backwashing scheduled every four weeks.

## Specifications case

Parameter	First feeding
Temperature (°C)	11-14
Salinity (‰)	0,5
Number of tanks (pc.)	8
Fish tank diameter (ø, m)	6
Water level (m)	2
Fish tank height (m)	2,3
Fish tank volume (m <sup>3</sup> )	56,5
Total fish tank volume (m <sup>3</sup> )	452
Water flow per fish tank (m <sup>3</sup> /h)	140
Total water flow per fish tank (m <sup>3</sup> /h)	1.120
Water exchange in tanks (times/h)	2,3
Retention time in tanks (min.)	26
Biomass (kg)	15.000
Fish weight - start (g/pc.)	0,2
Fish weight - end (g/pc.)	10
Density MAX (kg/m <sup>3</sup> )	35
Biofilter capacity (kg/day)	500
Daily water exchange (m <sup>3</sup> /day)	250
Feed Rate (theoretical, %)	3
Biofilter size (m)	3,5 x 3,5
Biofilter vol. total (m <sup>3</sup> )	63