

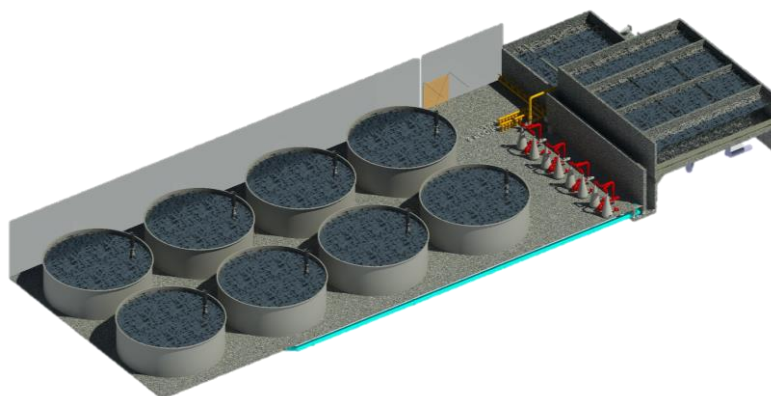


NAC – Parr/Smolt CONCEPT

Full RAS setup, optimal for parr/smolt rearing. 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 preparing smolts for smoltification.

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	Parr/Smolt
Temperature (°C)	11-14
Salinity (‰)	0-5
Number of tanks (pc.)	8
Fish tank diameter (ø, m)	10,5
Water level (m)	3,2
Fish tank height (m)	3,5
Fish tank volume (m3)	303
Total fish tank volume (m3)	2.424
Water flow per fish tank (m3/h)	690
Total water flow per fish tank (m3/h)	5.520
Water exchange in tanks (times/h)	2,3
Retention time in tanks (min.)	26
Biomass MAX (kg)	120.000
Fish weight - start (g/pc.)	10
Fish weight - end (g/pc.)	80
Density MAX (kg/m3)	55
Biofilter capacity (kg/day)	2.400
Daily water exchange (m3/day)	1.200
Feed Rate (theoretical, %)	2
Biofilter size (m)	5,0 x 5,0
Biofilter vol. total (m3)	300