

Fredrikstad Seafoods AS

– The first landbased Salmon grow-out facility in Norway

Aquaculture | Case Study

Client

Fredrikstad Seafoods AS

Facts

Location: Fredrikstad, Norway

Species: Atlantic salmon

Maximum daily feeding 2 x 4,000 kg

Building footprint 2 x 2,800 m²

Tank volume 2 x 5,000 m³

Maximum standing stock 400 tons

Water consumption 350 l/kg feed/day

Fredrikstad Seafoods AS

The Norwegian aquaculture company Fredrikstad Seafoods AS, owned by Nordic Aquafarms AS, wanted to build the first landbased Atlantic Salmon grow-out facility in Norway, with emphasis on a highly efficient production and superior environmental standards in order to achieve a sustainable production.

The facility is located in Fredrikstad, in the southern part of Norway. Here, the largest freshwater river in Norway named Glomma meets the ocean sea which grants the facility with both seawater and freshwater. Close access to freshwater and seawater makes the location in Fredrikstad ideal for the production of landbased Atlantic Salmon.

RAS2020™

For the landbased facility in Norway, Fredrikstad Seafoods AS signed a contract with Veolia Water Technologies A/S for its patented module based RAS2020™ system, which already had been successfully installed in other places in Europe and proven its efficiency. The facility in Fredrikstad will in phase one consist of two RAS2020™ modules with future expansion plans of the site with an increasing amount of RAS2020™ modules.





Illustration: Conceptual drawing of RAS2020™ MK02

The RAS2020™ fish farming facility makes it possible to produce fish in almost any location. The system requires a relatively small amount of intake water thereby reducing the volume of discharge. The circular flow of water in the tank, together with the movable grids, is a unique and patented design that results in great flexibility with regard to species and production logistics.

The tanks are separated by grids through which water can flow allowing the optimal water speed to be maintained with respect to fish size in the two tank loops. It also avoids sedimentation of unwanted material.

The adjustable water velocity in the two circular tanks secures optimal fish conditions in the entire water column. The water velocity is generated by flow makers, which secures an exchange of water in each tank section in less than a minute. The velocity of water is adjusted to size and species, which gives optimal fish welfare and subsequently a superior production quality.

For further information please contact

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