



SOLVOX[®]OxyStream. Low-pressure oxygen dissolver.



SOLVOX[®]OxyStream in a 15-m-diameter tank at Marine Harvest's site in Glomfjord, Norway.

SOLVOX[®]OxyStream is a low-pressure oxygenation system for fresh water, brackish water and sea water. The system is a patented all-in-one product which oxygenates the water and evenly distributes it using an adjustable flow regime in the fish tank. Furthermore, nitrogen is simultaneously stripped. SOLVOX[®]OxyStream achieves maximum efficiency beginning at about 15‰ salinity and requires only 0.05–0.2 barg to operate. This low pressure requirement makes SOLVOX[®]OxyStream a very energy-efficient oxygenation system.

Optimum oxygenation is crucial

Operations manager André Spigseth at Marine Harvest's site in Glomfjord, Norway, has been operating the newly installed SOLVOX[®]OxyStream oxygenation system for several months and is pleased with the way it works at low salinity: "We use 15-m-diameter tanks and this means that it is very important that the smolt receive the correct amount of oxygen for their development stage throughout the entire tank. We use a lot of water for the vaccinated smolt stage and SOLVOX[®]OxyStream works particularly well at lower salinities," explains André Spigseth.

Benefits of having a competent partner

The Linde Group was the obvious choice when selecting the supplier, as AGA, the Norwegian subsidiary of The Linde Group has supplied gas to Marine Harvest for a number of years. "We have a very good working relationship with AGA," Spigseth adds. "When we installed the new SOLVOX[®]OxyStream, we were involved throughout the entire process. Linde was very flexible and adapted the parameters of their SOLVOX[®]OxyStream system perfectly to our production plan."



Thumbs up for SOLVOX®OxyStream.

The best environment available

Marine Harvest wants to rear salmon in the best environment possible. Correct oxygen levels in the tanks are therefore very important. "Salmon hatches in fresh water and migrates downstream towards sea water as it develops," says André Spigseth.

"SOLVOX®OxyStream therefore is the perfect solution, as the system works more efficiently when sea water is added. Correct oxygen supply levels throughout the entire production period ensure fish stress levels are kept low."

"My opinion is that SOLVOX®OxyStream is a very efficient system. The high efficiency and very low pressure at which the system operates produce remarkable cost savings both through reduced oxygen and power consumption."

It is also self-reliable: "The system does not use a pump, so it will continue to operate even during a power cut," concludes André Spigseth.

More information

Would you like to know more about our SOLVOX®OxyStream and other gas application technologies for aquaculture? Experts from Linde are at your service. Just contact your local Linde representative or visit our website: www.linde-gas.com.

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