

LaserGas Oy

Fish Farming - Aquaculture

Successful fish production depends on good oxygen management. The addition of oxygen in a pure form is essential to the survival (respiration) of fish held in high densities, the survival of aerobic, nitrifying bacteria on the biofilters and, for the decomposition (oxidation) of organic waste products. Supplying sufficient oxygen to sustain healthy fish and bacterial populations and to



meet the biochemical oxygen demand for fish waste and unconsumed food is critical. Maintain oxygen levels, near saturation or even at slightly super-saturation at all times. Low oxygen levels will reduce growth, feed conversion rates, and overall fish production.

Pure oxygen injection systems are increasingly being used in aquaculture. They are particularly useful in maintaining oxygen-saturated conditions in recirculating systems with high densities of fish. Pure oxygen can be produced on-site by an oxygen generator. Oxygen generators (pressure swing adsorption systems, PSAs) are advantageous at all sites where liquid oxygen deliveries would be costly and expensive. Generators produce oxygen by using electric energy. They are inexpensive to purchase and operate. We always select the proper size of the oxygen generator and carefully calculate the cost of electric power needed.



LaserGas Oy has over ten years experience on different kind of systems for fish farming. We have supplied over 50 fish farms in Scandinavia.

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