



AQUACULTURE SYSTEMS

OPTIMAL LIVING CONDITIONS. HIGH-QUALITY WATER RECYCLING.

WEDECO
a xylem brand

Optimal living conditions protect your fish production

Whether open flow or recirculation aquaculture systems: fish farming enterprises face a lot of challenges. WEDECO UV disinfection and ozone oxidation systems care for optimal living conditions.

Successful against fish pathogens

Today aquaculture is the most rapidly growing sector of food production worldwide. But with higher fish density, the number of pathogens grows and the risk of epidemics is increasing. To prevent from a disease outbreak and a loss of production, water treatment and disinfection play a decisive role to fish farmers.

It is not by chance that UV and ozone systems from WEDECO are used in aquaculture since 1976. Depending on the parameters of an aquaculture system (e.g. type and quality of water, open flow or recirculation system, reared specie, growing stage and targeted pathogens), we provide customer-orientated solutions for optimal living conditions. Extended knowledge, a comprehensive engineering background and a wide product range as well as close intimacy to our customers needs enable us to provide high-performance and cost effective systems.

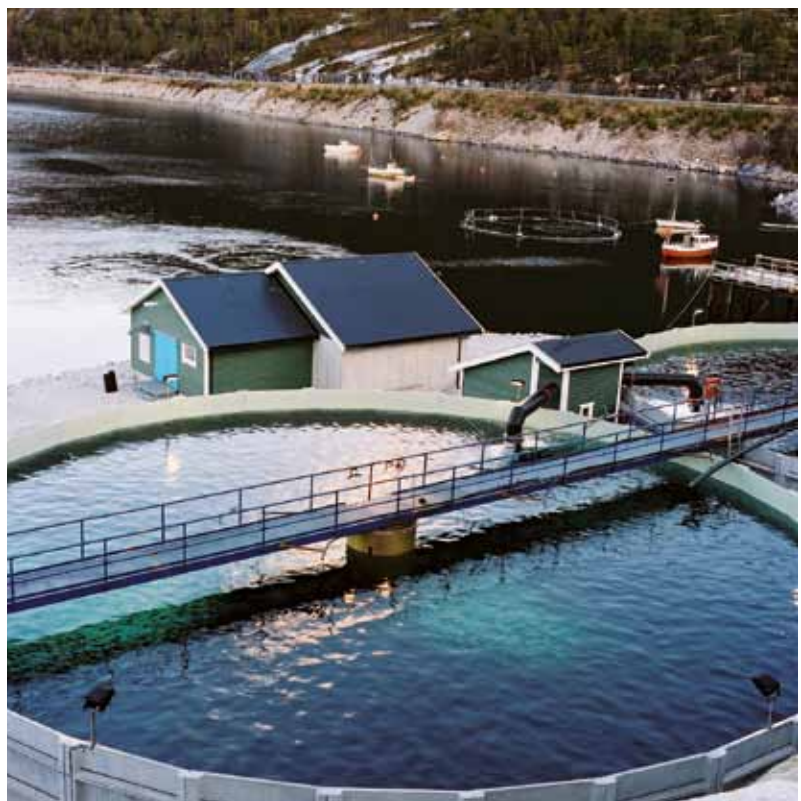
Chemical-free disinfection

Disinfection via ultraviolet (UV) light is adapted from the sunlight. A photochemical reaction inactivates the pathogenic microorganisms, which cannot multiply any longer and die. This is a very efficient way of disinfection without changing the natural characteristics of the water. For no chemicals are necessary and no harmful by-products remain.

Benefits

- » Very effective against fish pathogens
- » Reduced vaccination possible
- » Higher growth rates, less mortality
- » Easy operation
- » Cannot be overdosed

Expert knowledge and considerably experience: WEDECO is market leader in Norway, one of the eight largest aquaculture producers in the world.



Support for high-quality recycled water

When it comes to eliminate organic and inorganic particles, deposit of dissolved substances, micro-flocculation of organic substances or gelatinous materials, ozone is the right mean to choose. For ozone oxidation is the most effective method for providing high-quality water. Thus, the water in aquaculture systems can be recycled and reused.

Wastewater disinfection without chemicals

Under normal conditions ozone is an unstable, very reactive gas of three oxygen atoms. It can be created from oxygen or air according to the principle of silent electrical discharge. During the oxidation process ozone is usually used up completely and breaks back down into oxygen. Any remaining ozone in the off-gas is converted back to oxygen by a residual ozone destructor.

Benefits

- » Reuse of water leads to cost reductions
- » The growth rate of fish increases
- » Shorter breeding time
- » Reduced vaccination possible
- » Easy operation



Plug and play:

WEDECO ozone technology

WEDECO Modular, GSO/GSA & OCS
Small ozone generators and preassembled "plug & play" system ozone production from 2 g/h to 400 g/h per unit
Feed gas: Air, PSA or oxygen

Operational excellence

WEDECO UV and ozone systems can be adapted to existing environments without effort. Clearly arranged installations and simple handling ease the access to these eco-friendly water treatment technologies. All systems are made in Germany and comply highest quality standards.

Efficient & effective: WEDECO UV technology



WEDECO A series

- » Compact and high-output UV system for small drinking water applications
- » Certified acc. DVGW / ÖNORM



WEDECO BX series

- » Compact UV system with highest adaptability
- » Drinking water disinfection of up to 2.200 m³/h



WEDECO Spektron

- » Efficient UV system for disinfection of up to 1.480 m³/h drinking water
- » Certified acc. DVGW and ÖNORM



WEDECO TE/TA series

Immersion UV module to prevent bacteria growth in water tanks, for headroom disinfection of tanks and disinfection of surface



WEDECO TAK systems

The TAK 55 series and the TAK smart were generally engineered for the disinfection of wastewater for practically unlimited flow capacities



DURON

Wedeco's new open channel disinfection system that delivers clean, safe treated wastewater of the highest standard using a minimum of energy.

Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots
- 2) A leading global water technology company

We're 12,000 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, longstanding relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to xyleminc.com.



WEDECO



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