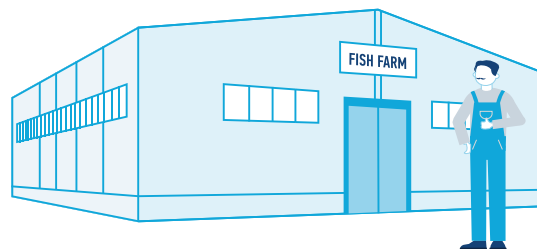




SUSTAINABLE FISH FARMS USE PRIMOZONE OZONE SOLUTIONS

EXPERIENCE AND RESEARCH supports the usage of ozone as a method to breakdown organic waste, disinfect and treat the water in RAS to remove pathogens and create an environment that is less favourable for bacterial growth.



RECIRCULATING AQUACULTURE SYSTEMS (RAS) provides several advantages like **REDUCED WATER USAGE**, better environmental control, **LOWER EFFLUENT VOLUMES**, higher production. However, when water re-use and stock masses increase, it leads to an increase in waste accumulation which can make the overall environmental control more complicated. The build-up of fine colloidal solids, dissolved organics and nitrite in RAS can damage biofilter function and increase biochemical oxygen demand, stress the fish stock which result in a less productive and less stable system. **APPLYING OZONE CAN OVERCOME THIS AND MORE** challenges.

WHY **OZONE** IN AQUACULTURE

- ✓ **INCREASE** - Overall plant productivity
- ✓ **FASTER GROWTH** - Increase in slaughter weight
- ✓ **DISINFECTION** - Reducing the risk of disease outbreaks in RAS environment
- ✓ **REMOVAL OF DISSOLVED ORGANIC COMPOUNDS AND DISCOLOURATION** - Ozone changes the characteristics of the dissolved organic compounds (DOC) by oxidation and precipitation, which makes it easier to remove the DOC by biofiltration and sedimentation
- ✓ **REMOVAL OF NITRITE** - When reducing the organic load with ozone treatment, the risk of nitrite growth is also reduced
- ✓ **SUPPLEMENTS OTHER TREATMENT PROCESSES**

WHY **PRIMOZONE** IN AQUACULTURE

- ✓ **NUMBER ONE IN AQUACULTURE** - Best references
- ✓ **EASY TO USE** - No need for specialist competence to operate and control
- ✓ **ODM** - Individual dosing for each treatment line
- ✓ **SMALLEST FOOTPRINT** - Saves space and enables easy retrofitting
- ✓ **MAINTENANCE FREE** - Time consuming cleaning of the reactor is not required
- ✓ **AUTOMATIC PRECISE DOSING** - Integrated control system that can vary the dosing and provide the desired ozone level at any given time
- ✓ **LOW LIFE-CYCLE COST**