

# SOPHISTICATED CONTROL SYSTEM - EFFECTIVE OZONE GENERATOR

At the Freshwater Institute in Shepherdstown, West Virginia (USA) they are convinced that ozone water treatment is essential to optimize production in water recirculating aqua-culture systems (RAS). Scientists at the Freshwater Institute have been studying ozonation for years but have never before used such a sophisticated ozone generator as the Primozone® Ozone Generator.

**THE FRESHWATER INSTITUTE** works to develop and validate solutions for the sustainable use of water resources.

## Recirculating aquaculture systems

As a part of the Freshwater Institute's work to find sustainable solutions for fish farming, they have their own water recirculating aquaculture facility and do primarily research on the production of fish as a food source. They focus on growing Atlantic salmon, Arctic char and Rainbow trout. The Freshwater Institute is one of the worlds leading research institutes for RAS.

## Control of ozone dosage

The Primozone Ozone Generator and the Primozone System Controller has unique features that make it possible to control the exact ozone levels produced at any given time. The oxygen levels and the effect used will vary accordingly, thus saving energy. The System Controller allows for monitoring of ozone levels, oxygen flow and power concentration.



## It's working fantastic!

Dr. Steven Summerfelt at the Freshwater Institute is very happy with how the Primozone Ozone Generator works.

"Our new Primozone ozone generator is working fantastic! We love being able to program in the ozone dose in g/hr and still minimize the oxygen flow required for ozone production. Being able to directly read the oxygen flow rate in L/min is also of great value to us!"

"The Primozone Ozone generator has spoiled us and we don't want to ever use anything less sophisticated," says Dr. Steven Summerfelt, Director of Aquaculture Systems Research at the Freshwater Institute.

## FRESHWATER INSTITUTE

A research partnership between the U.S. Department of Agriculture's Agricultural Research Service and the Freshwater Institute has refined a new model for fish farming, RAS that are closed-containment systems, ones that can produce healthy fish, leave a healthy environment and be done almost anywhere, even far from large water resources.

## OZONE AT RAS

- Ozone improves water quality, thus reducing fish health problems.
- Ozone removes color and dissolves organic matter and micro-flocculates fine particulate matter.

## PRIMOZONE SOLUTION

- High ozone concentration 200g O<sub>3</sub>/Nm<sup>3</sup> O<sub>2</sub>
- Small and space efficient
- Quiet
- Sophisticated control system
- Control of exact ozone dosage can be set to desired ozone g/Hr
- Control of oxygen flow rate
- Can be placed in any location, no risk for powerful electro-magnetic fields (EMC-approved)

## ABOUT PRIMOZONE

At Primozone® we are committed to provide our customers with cost efficient and environmentally friendly ways to clean and treat water with ozone. Our ozone generators and ozone water treatment systems are based on cutting-edge technology and generate far more ozone while using far less energy.

At Primozone we have found an innovative way to make ozone generation efficient and cost effective.

Our solution has proven to save up to 70% of the energy consumption compared to traditional ozone generators. Furthermore the Primozone Ozone Generator is small and has the capacity to generate ozone with a proven high concentration.

Ozone is not only a natural product but also one of the most efficient methods to clean and treat water.

### [www.primozone.com](http://www.primozone.com)

Primozone began redefining ozone technology in 2000. Since 2003, Primozone Production AB has been wholly owned by Westfal-Larsen Technology of Bergen, Norway. Today Primozone's patented technology is used in water treatment installations in more than 40 countries worldwide.

Terminalvägen 2, SE-246 42  
Löddeköpinge, Sweden  
Mail: [info@primozone.com](mailto:info@primozone.com)  
Phone: +46 46 70 45 70