

Orkla Foods

A Mellifiq reference project

Orkla Foods switched from Chlorine Dioxide to Ozone

**No chemicals and 80%
lower operating costs**

MELLIFIQ

Orkla Foods, Kungshamn, Sweden

Orkla Foods Sverige AB is a Swedish food manufacturer who is a part of the Norwegian company group Orkla. The group produces pickled fish and seafood, processed potato dishes, ready meals, fruit and berry products, pickled vegetables, ketchup, sauces and breakfast cereals.

Orkla Foods Sverige has 1,500 employees, 11 production sites and a total turnover of over 500 million euros.

The main production in Kungshamn comprises Abba's caviar, pickled herring and fish balls. The site has since long used ozone to sanitize process equipment and surfaces.

Facts

Name:	Orkla Foods AB
Location:	Kungshamn, Sweden
Industry:	Food production
Purpose:	Disinfection & sanitation
Performance:	60 L/min flow-through at 1 ppm ozone residual

Solution:

Ozonetech RENA Vivo B series

Food & Hygiene solutions

Dimensions (HxWxD):	2 580 x 1 200 x 800 mm
Input power:	1 kW
Noise level:	49 dB

The problem

In the 1990s, the facility in Kungshamn used large amounts of chlorine dioxide for disinfection of process equipment. The costs were high, over 10,000 euros per year, and they also experienced problems with chlorine gas emissions. The plant had repeatedly a need to evacuate and ventilate out chlorine. Thus chlorine

dioxide treatment developed into a work environmental problem. It was replaced with an ozone sanitation system instead. Years later, upon increased production, the ozone system capacity became insufficient. This, together with lack of service from the supplier, meant that Orkla needed to find a new, future-proof solution.

The solution

Orkla had previously a good experience of ozone purification and chose us at Mellifiq for a more developed and reliable solution. In 2016 we delivered a full-scale turn-key Ozonetech RENA Vivo high-performance ozone system whose modular design enables easy capacity increase.

The new Ozonetech system is fully automated and continuously adjusts the ozone concentration in the process water. Orkla also wanted to increase the reliability of disinfection further. Our Premium service agreement means we offer prolonged product responsibility. The agreement includes components and remote monitoring of the ozone system performance.

Enabled by O3Eye™ – 24 hours per day, 365 days a year. Any deviations are reported automatically and directly to our service center. A premium service agreement means that we can supply a stable operation for Orkla at site.

During the commissioning of the system, we also got the opportunity to optimize Orkla's operation. With ozone disinfection there is no longer a need for the final rinse. This has reduced the plant's water consumption considerably and shorten the down time. The risk of recontamination through municipal rinse water has thus been eliminated.



The Ozonetech RENA Vivo high-performance ozone system reduced the operating costs by 80%.

Evaluation

The new Ozonotech RENA Vivo high-performance ozone system has significantly lowered production down-time and water consumption. The total savings from our novel sanitation solution amount to 80%. The upgrade has improved environmental, safety and health standards and the plant operating staff appreciates the stability and safety aspects of the system.



The Swedish well known Kalles caviar and Abba's herring is produced in Kungshamn on the Swedish west coast.

“With Mellifiq’s solution we are saving large amounts of water, completely in line with our environmental policies. The stability and reliability of the ozonation process of our sanitary rinse water has been improved. The ozone system is now prioritized for our most important production line.”

Production manager, Orkla Foods

About Mellifiq

Mellifiq is a multi-awarded environmental service company group, that has since the early nineties evolved into a world leading system and solution provider with multiple groundbreaking applications for industrial, municipal, and real estate clients. We supply cutting-edge technologies to manage the most sophisticated air, water, and energy challenges.

Mellifiq offers a complete range of air and water treatment technologies and solutions across multiple industries such as processing industry, energy sector, food and beverage, pharmaceutical, wastewater treatment and commercial real estate.

Mellifiq offers strong and renowned brands, such as Ozonetech, Nodora and Water Maid, and world-class engineering services combined an excellent track record of more than 40 years of innovation. We help our clients achieve the most efficient and sustainable solutions while creating the maximum value for their businesses.

With several business units across Europe, Mellifiq is headquartered in Stockholm where research and development, production, QA and certification all take place. Our unique technology and our extensive expertise have made us the Center of Excellence for the world's most complex projects, and a global player with installations on all six continents.

Everyday millions of people rely on our solutions for ventilation, disinfection, sanitation, and odor control. We are committed to raising the bar for the concept of clean and the industry standard for engineering, technical services and general contracting.

For additional information, visit our website at www.mellifiq.com

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