

CASE STUDY
ORKLA



Orkla Foods switched from Chlorine Dioxide to Ozone

NO CHEMICALS AND 80% LOWER OPERATING COSTS

 ozonetech.

ORKLA FOODS 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.



The Swedish well known Kalles caviar is produced in Kungshamn on the Swedish west coast.

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

The new ozone system is fully automatic 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 shortened the down time. The risk of recontamination through municipal rinse water has thus been eliminated.

EVALUATION

The new 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.

” With Ozonetech'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.



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

PLANT FACTS

Name:	Orkla Foods AB, Kungshamn
Industry:	Food production
Purpose:	Disinfection & sanitation
Performance:	60 L/min flow-through at 1 ppm ozone residual
System solution:	RENA Vivo B series Food & Hygiene solutions
Size (HxWxD):	2,580 x 1,200 x 800 mm
Input power:	1 kW
Noise level:	49 db

ABOUT OZONETECH

Ozonetech is an award-winning green-tech company that has offered premium products for air and water treatment through the use of ozone since 1993. Our unique technology and extensive expertise has made us a rapidly growing global company with installations in six continents. All development and manufacturing is located in Sweden. In addition, we have in-house specialists for consultation, planning, installation and service.

As a "Center of Excellence" within air and water treatment, we also collaborate in international efforts to develop global standards for purification solutions.

At Ozonetech, we have a strong incentive to reduce energy waste, health risks and the impact on the environment. Our current solutions provide a multitude of benefits in the processing and food industry, real estate, commercial kitchens as well as in the retail market.

