



CASE STUDY  
POPPELS  
BREWERY

# Poppels Brewery replaced acid disinfection with ozone

NO MORE CHEMICAL HANDLING AND A GREENER PROFILE

 ozonetech.

## POPPELS BREWERY

Poppels Brewery, one of the fastest growing craft breweries in Sweden, has already established a green eco-friendly profile. Now they have taken a significant leap towards lowering their environmental impact even further by implementing ozone technology in their daily operations.

The brewery resides in Partille, Sweden, in top-modern facilities to make room for the expanding demand for their beers across the country. The brewery produces many popular beers such as Russian Imperial Stout and Belgian Wit. The team of brewers needed a more sustainable alternative to their chemical consumption and handling. Ozone was chosen to replace the current sanitation agent.



In 2015, Poppels Brewery relocated to larger and more modern facilities to enable expansion.

### THE PROBLEM

A rapidly increasing production means higher consumables costs as well as handling and storage of chemicals. The brewery staff needed to manage the use of peracetic acid that was routinely applied to disinfect the fermentation tanks and filling machines after each production cycle. Peracetic acid is a common sanitation agent but requires careful handling and thorough rinsing in process equipment to ensure by-product free beer.

### THE SOLUTION

As a joint project with Ozonetech, a high performance ozone system was implemented in the existing Clean-in-Place system. Ozone has now replaced the acid use. Ozone is produced on demand only and in a safe manner. Aqueous ozone now circulates in the system following caustic cleaning of the process equipment.

The Ozonetech RENA Vivo A-series is installed in a side-stream connected to the main CIP system.

Ozone use for process equipment sanitation requires a high-performance, oxygen fed, and water cooled ozone system with an integrated gas-liquid ozone transfer mechanism.



The RENA Vivo A-series is integrated into the existing CIP system.

*“Ozone is our new standard for sanitation and we feel very satisfied about being able to eliminate our acid use; it creates a safer work environment. The ozone system is also easy to operate during our CIP.*

Comments from the team of brewers

### EVALUATION

After ozone sanitation of the fermentation tanks and filling machine, the disinfection results are validated using ATP analysis. The RENA Vivo system delivers results according to the high standards Poppels demand. The brewers now have an acid-free working environment.

### PLANT FACTS

Name:	Poppels Brewery
Industry:	Breweries
Purpose:	Disinfection & sanitation
Performance:	15 min sanitation at 1 ppm ozone residual
System solution:	RENA Vivo A-series <i>Brewery solutions</i>
Dimensions (HxWxD):	1800x1200x800 mm
Input power:	0.75 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.

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