

**Poppels Brewery**

A Mellifiq reference project



# **Poppels Brewery replaced acid disinfection with ozone**

**A greener profile when  
abandoning chemical  
treatment**

**MELLIFIQ**

## Poppels Brewery, Partille, Sweden

*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.*

### Facts

Name:	Poppels Brewery
Location:	Partille, Sweden
Industry:	Breweries
Purpose:	Disinfection & sanitation
Performance:	15 min sanitation at 1 ppm ozone residual

### Solution:

#### Ozonetech RENA Vivo

#### A-series Brewery solutions

Dimensions (HxWxD):	1,800 x 1,200 x 800 mm
Input power:	0.75 kW
Noise level:	49 db

### 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.



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

## The solution

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

The Ozonotech RENA Vivo A-series is installed in a sidestream 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.

## Evaluation

After ozone sanitation of the fermentation tanks and filling machine, the disinfection results are validated using ATP analysis. The Ozonotech RENA Vivo system

delivers results according to the high standards Poppels demand. The brewers now have an acid-free working environment.

*“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.”*

The team of brewers

# 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 Ozonotech, 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](http://www.mellifiq.com)

# MELLIFIQ