

**Aquani Water**

A Mellifiq reference project



**Malta water bottling  
plant tripled the  
capacity**

**Turn-key system cut  
footprint in half**

**MELLIFIQ**

## Aquani Water, Malta

*The island of Malta has no natural water supply. All drinking water is extracted from deep groundwater sources. Aquani water supplies high quality, locally produced bottled water to the inhabitants. Located at the heart of the Maltese buzz, the company is known for their fast and efficient delivery services and only top quality water with a balanced mineral content. With larger 11 and 19 L bottles for local businesses, Aquani has now expanded their offering by adding 2 liter bottles to the consumer market.*

### Facts

Name:	Aquani Water
Industry:	Bottling plants
Purpose:	Water & bottle sanitation
Capacity	35 m <sup>3</sup> /hr

### Solution:

#### Ozonetech RENA Vivo B-series

Dimensions (HxWxD):	2,600 x 1,200 x 800 mm
Input power:	1.2 kW
Noise level:	49 dB



*The new 2 L bottle line in operation, ozonated with Ozonetech's system to ensure sanitized bottles and highest quality water.*

## The problem

Aquani has been previously using ozone for many years to sanitize the final product and to ensure the shelf-life and taste. However, the capacity of the old ozone system was out of range following the increased capacity requirement with the new 2 L bottling line. The old ozone system could not reach the target dissolved ozone levels. In addition, the available space was a concern since the new bottling line more than tripled the water flow.

## The solution

Aquani turned to Mellifiq to help them upgrade the total ozone capacity. With complete turn-key solution, an Ozonetech RENA Vivo B1 ozone system was delivered and installed in-line following the RO and filter stations. In order to maintain proper dissolved ozone levels, ORP control was integrated into the control system including sensor. Ozonetech was also able to accommodate for hydraulic pressure variations in order to operate each bottling line individually or in combination. The advanced operational mode control was a perfect fit.

## Evaluation

The upgrade resulted in half the footprint compared to the previous ozone unit, but with more than three times the capacity. The system capacity can easily be upgraded without any added floor space. The ORP control was tuned specifically to maintain stable ozone levels regardless current water flow. The system operates at very low noise levels compared to the old unit. Due to the warm conditions, a dedicated cooling system was included in the delivery to avoid using local tap water.

In the end, this results in a more reliable bottling production with a more efficient system that occupies less space and lowers operational costs with opportunities to upgrade production capacity.

# 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)

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