

Karotia

A Mellifiq reference project



Karotia cleans their carrots with ozone

**All baby carrots are
disinfected with ozonated
water to extend shelf-life**

MELLIFIQ

Karotia, Matku, Finland

Karotia OY is an awarded Finish carrot producer that has been run as a family business ever since the start in the 1950's and is one of Finland's largest carrot producers. The long experience of growing carrots has led to a vast knowledge in the production. For Karotia quality control, research and development are very important factors and they strive to continuously improve their processes. This has taken the company to where it is today. Karotia has in their development given special attention to and passion for the growth of their award-winning Baby Carrots.

Facts

Name:	Karotia OY
Location:	Matku, Finland
Industry:	Food and hygiene
Air volume:	1,000 carrots rinsed with 1 ppm ozone/h
Purpose:	Disinfection to prolong shelf life

Solution:

Ozonetech RENA Vivo B-series

Dimensions (HxWxD):	1,200 x 800 x 2,500 mm
Input power:	2 kW
Noise level:	49 dB

The problem

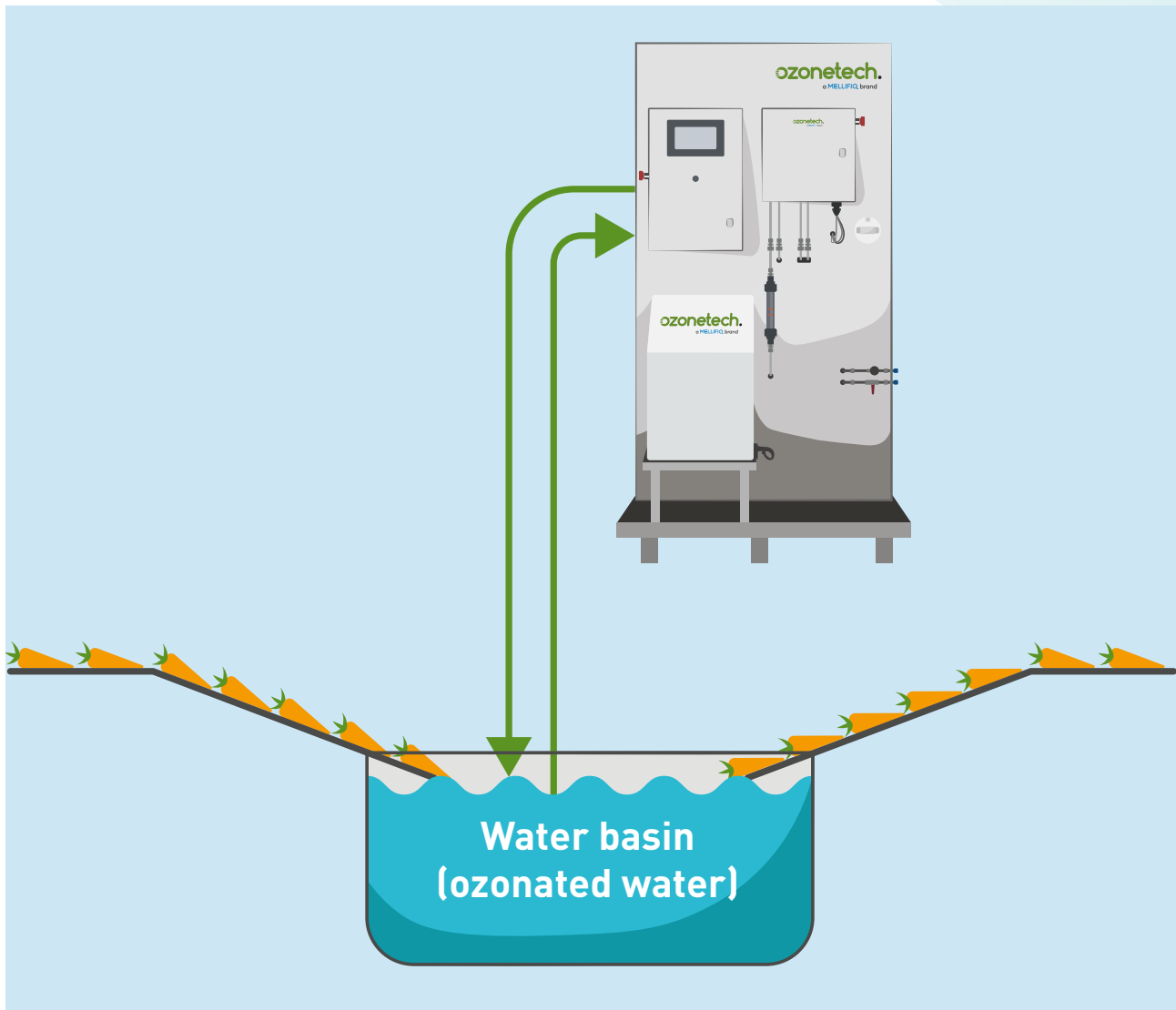
Karotia wanted an effective solution to clean and disinfect their baby carrots without affecting the taste. The aim of the additional cleaning step was to prolong the shelf life of the baby carrots, and thus, reducing wastage and increase profit.

The solution

Karotia turned to Mellifiq for a disinfection solution that would not affect the taste of the baby carrots. We solved the problem by circulating ozonated water, from one of the Ozonetech RENA Vivo B-systems, over a water basin where the baby carrots are rinsed. The ozone level is automatically controlled at 1 ppm to ensure the highest performance of the washing system. The system effectively deactivates viruses and bacteria and the carrots are now always completely free from any microbial contamination. All this results in an extended shelf life without having any effects on the taste.

Evaluation

The Ozonotech RENA Vivo B-series has now cleaned more than 1,000 baby carrots per hour for several years and is still up and running at high performance. The system is still successfully disinfecting the carrots without having any effects on the taste.



Schematic process diagram. The baby carrots are washed in ozonated water where they are disinfected to prolong shelf life without effecting the taste.

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

MELLIFIQ