

Dutch wood processing

A Mellifiq reference project

Solved: Hard-to-treat odor emissions from innovative wood processing company

**Up to 3,400 ppm of compounds
including pinenes, limonene,
hexanoic and heptanoic acids**

MELLIFIQ

Wood processing, The Netherlands

A company in the Netherlands invented a new process to treat wood to achieve particular properties. Unfortunately, the treatment results in high pollutant emissions, causing odor problems with the neighbors. These filed complaints to the local authorities which forced the company to install a treatment. They tried different technologies, like activated carbons or alumina beads impregnated with potassium permanganate, but none worked.

Facts

Location:	The Netherlands
Industry:	Wood processing
Purpose:	Odor removal

Solution:

Ozonetech RENA Pro B3

Units:	1
Dimensions (HxWxD):	800 x 600 x 1,800 mm
Input power:	1.2 kW
Noise level:	55 dB

Nodora UV-C Air X AOP reactor

Units:	1
Dimensions (HxWxD):	1,160 x 760 x 2,070 mm

The problem

The problem is the extreme concentration of pollutants (3400 ppm). These are also difficult compounds to remove, as they are mostly composed by pinenes, limonene, hexanoic and heptanoic acids. In addition, the local authorities require an odor removal of 90 %.



The solution

We chose the Ozonetech RENA Pro B3 ozone system in combination with the Nodora AOP UV reactor. The combination of ozone and UV is known as advanced oxidation due to the synergy between these two components, increasing the efficacy of the treatment. Since this case was very difficult to solve, we designed a custom-made reactor based on their needs. We incorporated the most powerful UV lamps for air treatment available on the market, to maximize the effect.

"We needed a high level of odor reduction and the Nodora AOP provided it."

Owner of the wood products manufacturer

Evaluation

The customer is very satisfied by the results. Almost no odor is emitted from the process, and the management is confident to continually reach the 90 % odor reduction.

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