



McDonald's in central Stockholm ensures effective and safe grease removal with ozone

McDonald's Regeringsgatan replaced air-fed ozone solution with high-performance Ozonetech ozone generator, improving air treatment quality

MELLIFIQ

McDonald's, Stockholm, Sweden

As one of the pioneering fast-food chains, McDonald's has more than 36,000 restaurants worldwide. In Sweden, there are currently over 190 locations, including the one located on Regeringsgatan, in central Stockholm. McDonald's has been present on the Swedish market from 1973 and growing ever since.

Facts

Name:	McDonald's Regeringsgatan
Location:	Stockholm, Sweden
Challenge:	Removal of grease from exhaust air
Market:	Kitchen Exhaust
Project value (USD):	10,000 - 100,000

Solution:

Mellifiq delivery:	Ozonetech RENA Kitchen Solutions
Performance:	Removal of grease in flue duct, preventing grease from depositing on duct walls, reducing fire risk, online remote monitoring of system performance
Capacity:	2,500 - 3,000 l/s
Dimensions HxWxD (cm):	100x50x20

The problem

Located in the heart of Stockholm, the restaurant serves thousands of customers daily and the continuous production emits high volumes of greasy compounds along with the kitchen exhaust air.

McDonald's Regeringsgatan was previously using an air treatment solution based on an air-fed ozone generator which over time was not sufficient to cope with the restaurant's air treatment needs. The grease volume in the exhaust air was too high for such a system to remove efficiently, which consequently required more frequent manual duct cleaning, increasing maintenance costs and negatively affecting business profitability.

Treatment systems based on air-fed ozone generators are often a cheaper alternative. However, they pose additional risks besides thick grease deposits in the duct, in the form of ammonium nitrate, a byproduct which is highly flammable and has a high carbon footprint.

The solution

In order to address issues posed by both greasy compounds in the exhaust air and a deficient solution, the ventilation consultants, TQI, contacted Mellifiq for a high-performance ozone system. Vasakronan, the property owner, couldn't be happier with our

The Ozonotech RENA 60 ozone system, along with our online monitoring system, the O3Eye™, ensures high uptime and is also integrated to the internal management system of the property owner.

solution. The high-performance Ozonotech RENA 60 ozone system that we provided is based on an oxygen-fed ozone technology, which has an incomparably higher treatment capacity and is much more energy efficient. On top of this, the system requires minimum maintenance and ensures that no hazardous byproducts are produced.



McDonald's on Regeringsgatan in Stockholm

Evaluation

Our Ozonotech RENA Kitchen Solution currently ensures complete grease removal from exhaust air at the McDonald's on Regeringsgatan. Furthermore, the Mellifiq delivery guarantees total compliance with the European regulations for commercial kitchen ventilation, EN 16282.

Compared with the previous solution, the restaurant benefits now from increased safety, decreased risk of fire, sees much better results in the treated exhaust air, and has total control over the system performance.

Besides this, the maintenance costs decreased significantly since grease deposits at a much lower rate on duct walls and byproducts from the previous treatment solutions no longer need to be handled.

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

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