

Undisclosed 5-star resort

A Mellifiq reference project

5-star resort in Los Cabos, Mexico ensures air quality with Ozonetech solutions

As a side-effect of the large kitchens, air pollution from the kitchen exhaust becomes an issue, and left untreated, it would have an adverse effect on the experience

MELLIFIQ

Undisclosed 5-star resort, Los Cabos, Mexico

The experienced building management team turned to Mellifiq to help remediate the odor issue and lessen the maintenance effort for the kitchen ducts. With a variety of cooking techniques and ingredients, there was a need for a treatment solution capable of handling grease, smoke from charcoal grills as well as food with intense smell.

Facts

Name:	Undisclosed 5-star resort
Location:	Los Cabos, Mexico
Industry:	Real Estate - Hotel
Challenge:	Odor control, fire safety
Project value (USD):	60 000

Solution:

Mellifiq delivery:	RENA Commercial Kitchen 80
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The Problem

With significant flows from large kitchens spread around the hotel complex in a tropical climate, a substantial set of treatment technologies, manufacturers and products are disqualified. Solutions that are generally favored in certain regions, such as electrostatic air filters, nor passive filters solve the issues at hand.

The grease load on the lengthy ductwork led to frequent time consuming and labor-intensive wet duct sweeping using hot water and chemicals.

During the time, the kitchen was non-functional.

With an exclusive clientele looking to revel in deluxe pampering, odor disturbances are unacceptable and has to be handled at all times.



The kitchen hood sucks in the greasy, hot and foul-smelling air from the cooking.

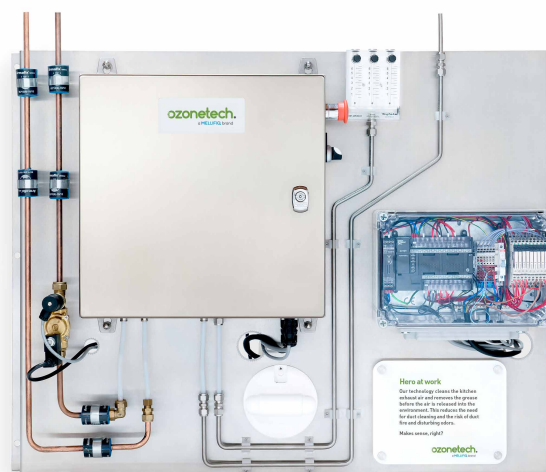
The Solution

Mellifiq was appointed to design and deliver a complete solution taking into consideration internal and external factors ranging from air flows through the ducts to ambient dew point, maintainability, and uptime. A single RENA Commercial Kitchen system capable of distributing ozone into multiple injections was delivered in order to treat the smell and grease.

The delivery also included automation, safety features such as ambient ozone sensors and closed-loop cooling unit, in order to ensure safe and continuous operation during all times. With the help of a remote monitoring option, Mellifiq can provide real time support and diagnostics from the Stockholm office through the technicians at site.



Image of the RENA Commercial Kitchen 80 installation.



Ozonetech RENA high-performance ozone system.

Evaluation

The odor reduction capability has been continuously supervised since the time of commissioning. Prior to installing the system, the odor was distinct and easily sensible from the highest floors of the hotel. After commissioning the odor is barely recognizable when standing directly in front of the kitchen exhaust outlet.

No wet duct sweeping has taken place since the commissioning of the RENA system and overall time between sweeps has increased significantly, leading to greater uptime for the kitchens and reduced need for labor.

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

