



Fresh air &
clean water
– as simple
as that

ozonetech.

a MELLIFIQ brand

What is ozone?

Ozone consists of three oxygen atoms and is a gas found naturally in the air. Ozone is formed by a high voltage discharge that separates the two oxygen molecules (O_2), which then can react with an additional oxygen molecule to form O_3 , i.e., ozone. Ozone acts as nature's own purification method to clean the air and water from viruses, bacteria and other harmful microorganisms.

During the treatment process, ozone breaks down contaminants and any residual ozone decays into normal oxygen. In other words, ozone leaves no harmful residues behind. It is easy, efficient and eco-friendly!

Adding ozone to the air and water is simple, which makes the cleaning process very efficient and economical.

Advantages of ozone treatment include:

- low investment and operating costs
- an effective, smooth and quick cleaning process
- no residues (ozone decays into normal oxygen)



Ozone removes VOCs (Volatile Organic Compounds)



Removes unpleasant odors from garbage rooms

Ozone is antibacterial and reduces odors effectively as well as the microorganisms that cause odors such as mold, bacteria and viruses.



An eco-friendly process and wastewater treatment



Reduces grease and odors in commercial kitchen extract ducts



Clean water for the pool



Fresh and clean drinking water

CLEANER EXTRACT DUCTS

Cleaning commercial kitchen extract ducts with ozone significantly reduces fire hazards and can also lower the costs for duct materials. When the amount of ozone is correctly dimensioned, the risk of grease duct related fires is reduced and unwanted odors that disturb the surroundings are minimized. Additionally, the heat energy can be recovered.

CLEANER GARBAGE ROOMS

Microorganisms in garbage rooms, recycling rooms and similar environments lead to bad odors because of decomposition. Cooling the area to reduce the odors is a common practice, but is not totally effective and increased collection intervals are costly. Ozone eliminates the use of cooling completely. It also creates the potential for significant operation and installation cost savings.

CLEANER GREASE TRAPS

Hydrogen sulfide is produced when grease deposits are broken down by bacteria in an anaerobic environment. Hydrogen sulfide is a corrosive and malodorous gas that corrodes pipes and causes health hazards. Supplying ozone eliminates odors and microorganisms as well as minimizes inconveniences when emptying and venting grease traps.

CLEANER WATER

Process water, rinse water, wastewater or water containing for example complexing agents often contain large amounts of organic compounds (measured as COD and BOD). Water treatment with ozone is a highly effective and eco-friendly method for breaking down organic compounds into primarily carbon dioxide and water.

Ozone treatment is also used to purify water at drinking waterworks and sewage treatment plants from various microorganisms, odors and discoloration. Other common uses for ozone include rinsing vegetables and other food products to minimize the proliferation of *E. coli* and *Listeria*, extending shelf life, as well as cleaning and disinfecting surfaces and equipment that come into contact with food and beverages.

Ozone can also disinfect hot water systems containing *Legionella* and the irrigation water in greenhouses before being re-used.

WHY USE OZONE?

Introducing ozone into air and water is a simple procedure that makes the cleaning process very effective and economical: low investment and operating costs efficient, flexible and quick cleaning process no residues (ozone always decays into oxygen)

TO CLEAN AIR

Areas with poor ventilation or high levels of microorganisms suffer from bad odors. This affects everything from garbage rooms to bedrooms. Ozone is antibacterial and effectively puts an end to odors as well as eliminates the microorganisms that cause them such as mold, bacteria and viruses.

TO CLEAN WATER

Cleaning water with ozone has many advantages compared to more traditional methods such as chlorine or UV disinfection. Ozone is highly effective for eliminating microorganisms such as viruses and bacteria, and it also prevents them from continuing to grow!

Another advantage is that ozone works with a very short reaction time, which means it is very flexible.

Speaking of flexibility, ozone is generated on-site, which means that you no longer need to handle chemicals and deal with the associated transport and handling costs or risks.

ACT SERIES

The ACT series is enclosed in a chassis of stainless steel. It consists of simple and easy to operate controls with variable power. The generators can be configured to automatically turn on or off via a switch. The ACT series models produce effects of up to 3.5 grams of ozone per hour. The ACT series is mainly used in waste disposal rooms, grease traps and sumps.



FTX SERIES

The FTX series is enclosed in a chassis of stainless steel. External control is possible via a relay and 4-20 mA signal. The FTX series models are specifically designed for ventilation systems with effects of up to 2 500 m³/h. The FTX series is used in smaller kitchens, apartment buildings and larger pits.



ICT SERIES

The ICT series is enclosed in stainless steel with connections set in the bottom of the unit for oxygen, ozone, cooling water and electricity.

The control unit manages all vital parameters and sets off an alarm if threshold levels are exceeded. An optional external control is available for extended functionality. ICT ozone generators, also called high performance ozone generators, can produce up to 480 grams of ozone per hour and are used primarily for large commercial ventilation, biogas and water treatment.



DCT SERIES

The DCT series is made entirely of stainless steel. The right side of the unit houses connections for oxygen, ozone and cooling water, while electrical connections are placed on the left side. The generator continuously reads all parameters and sets off an alarm if threshold levels are exceeded. The control panel can be connected to an external computer or the Internet. The DCT series models produce up to 5,000 grams of ozone per hour. The DCT series models are used in water treatment plants and major industries.



OXYGEN CONCENTRATORS AND GENERATORS

Highly efficient ozone generation requires a supply of pure and dry oxygen. Ambient air can be filtered through the use of an oxygen concentrator and the result, high-purity oxygen gas, can be supplied to the ozone generator. These components are used for the ICT and DCT series.



ACCESSORIES

We provide a wide range of accessories: injection valves, nozzles, hoses, adapters, sensors and monitors.



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 Ozonetech, 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.

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