

The image shows a close-up of a grey metal control panel for an ozone system. On the left, a white box is labeled 'ozonetech.'. To its right, a transparent enclosure reveals internal electronic components and wiring. Below these are various pipes, valves, and a white circular component. The panel is mounted on a wall, and the overall scene is brightly lit.

ozonetech.

Ozonetech  
RENA Pro

# Rena Pro™ Ozone Systems

A series of state-of-the-art systems for  
air and water treatment

**ozonetech.**

a MELLIFIQ brand

**Ozonetech  
RENA Prp**

Elektravägen 53  
SE-126 30 Hägersten, Sweden  
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www.mellifiq.com

## No production stop needed, just turn the key

If you are looking for a sustainable way to treat air and water, take a close look into ozone. Ozone is produced on-site from the oxygen in ambient air, an abundant free-of-cost raw material. Nothing to purchase, transport and store. No handling and refills needed. No waste. No residues.

Our in-house-developed RENA Pro ozone systems also save time and money. The operation is automatic with minimal maintenance and very affordable operating cost.

The installation takes place smoothly. No plant rebuilding or production stop needed. And you can be up and running fast. All RENA Pro systems are both turnkey and plug-and-play. So if you are open for an alternative to UV technology, hypochlorite, thermic oxidation, biofilters and absorption solutions like scrubbers, there are real benefits that await.



*Distinguishing feature: An oxygen-fed ozone system built with premium components perfectly integrated to enhance performance, reliability and safety.*

### Industries

- Biogas
- Paint and coating
- Breweries
- Food and beverage
- Pharmaceutical industry

### Application areas

- Disinfection
- Odor control
- VOC removal
- Clean-in-place
- Bottled water



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**Reliable, easy to handle and top-performing year after year**

RENA Pro is state-of-the-art. For us, this means three things. The treatment capacity is extremely high. The component quality is consistently high in the smallest detail – which ensures long system lifetime with sustained performance. And last but not least, the system is user-friendly.

**HIGH PERFORMANCE**– High-performance has a defined meaning: to over an extended period of time produce large quantities of pure ozone, free from impurities. This is the only way to treat large volumes of contaminated air and water with sustained results. Small amounts of ozone in low concentrations injected in large flows or volumes will not get the job done. And the only way to achieve high-performance is to produce the ozone from dry, pure oxygen (not humid ambient air) – and to cool the ozone generator using liquid – not air.



*Premium ozone systems are oxygen-fed and liquid-cooled.*

Our HELS™ technology has been used worldwide since 2001. It is continuously evaluated and improved. The technology produces very precise quantities of ozone. It also produces up to 30% more ozone than regular corona discharge ozone elements on the market. This is due to many reasons, among them the unique and carefully engineered ozone generating elements with less than 100 µm deviation.

High-performance ozone production also minimizes the formation of NO<sub>x</sub>, and eliminates salts and nitric acid formation. So for both environmental and purification capacity reasons, avoid air-fed, air-cooled ozone generators for industrial applications.



*In-house developed and continuously improved technology.*

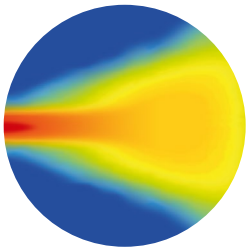


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**QUALITY** – The RENA Pro is made of the highest quality materials. We use AISI 316L (EN 1.4404) stainless steel and Teflon tubing with highest possible chemical resistance to ensure maximum lifetime in harsh industrial environments. In the design we always choose the parts and technical constructions that perform best in the long run.

All systems go through comprehensive test runs before delivery.



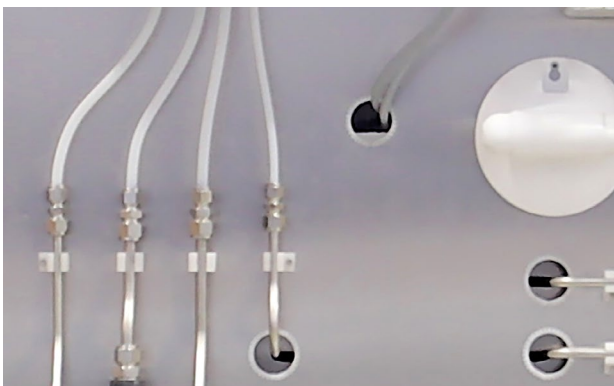
*Correct injection point is vital.*

The precision in ozone production and dosing is fundamental for the system performance. We use Computational Fluid Dynamics, CFD, to meet the highest purification requirements.



All RENA Pro systems can be equipped with remote monitoring and ozone sensors for safe use and can easily and seamlessly be integrated into industrial processes. There is no need for any adjustments in your processes.

**USER FRIENDLY**– RENA Pro needs power and liquid cooling. That’s all. And when in operation, the environmental impact is low since the raw material is oxygen produced on-site from ambient air. The turnkey system is delivered for easy plug-and-play installation with a footprint of half EUR pallet. The operation is automatic and controlled using a well designed HMI (option), easy to overview and monitor.



*Designed to perform, built to last.*





## We build what you need

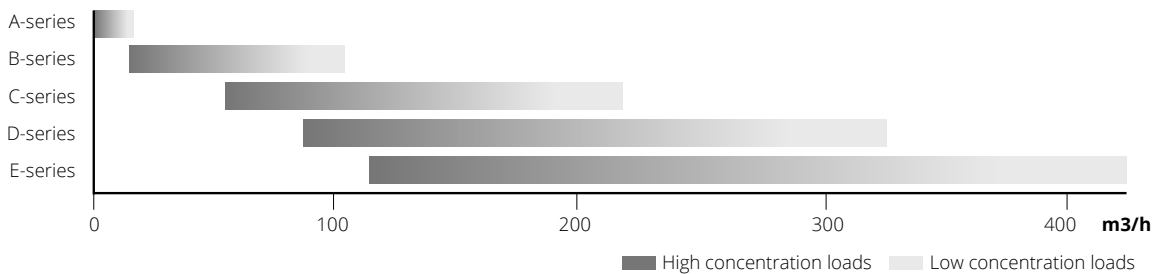
The RENA Pro is a platform with exceptional modularity and a large variety of optional functions and systems. We offer five series of the RENA Pro categorized depending on ozone capacity, from A to E. All systems are tailored to the needs and requirements. The sizing guides indicate the choice of RENA Pro system based on flow, load and application.

### MAIN OPTIONS

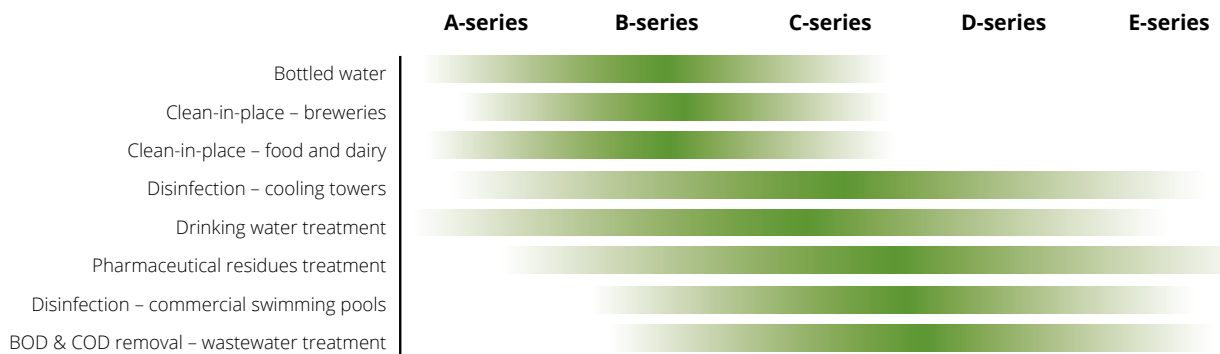
- Closed-loop liquid cooling system
- Ozone injection system, up to five injectors
- O3Eye™ remote monitoring and control
- Automatic regulation of ozone production
- Tailor-made HMI
- Additional ozone sensors
- Venturi injection

## Sizing guides for water treatment

### WATER flow and loads



## Applications

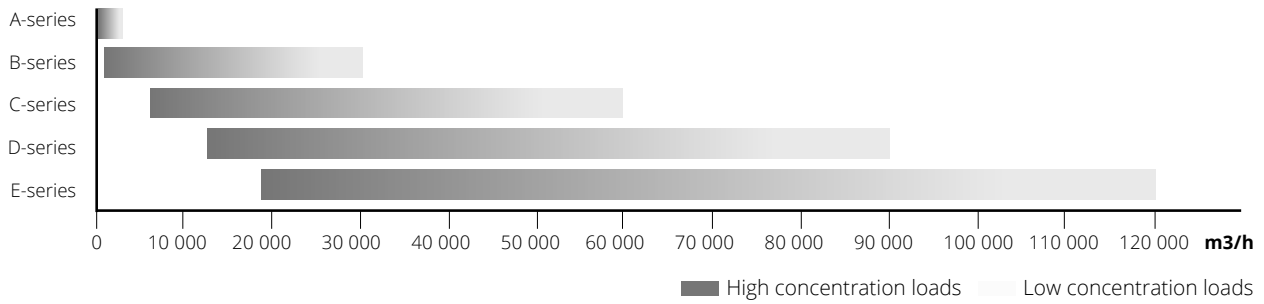




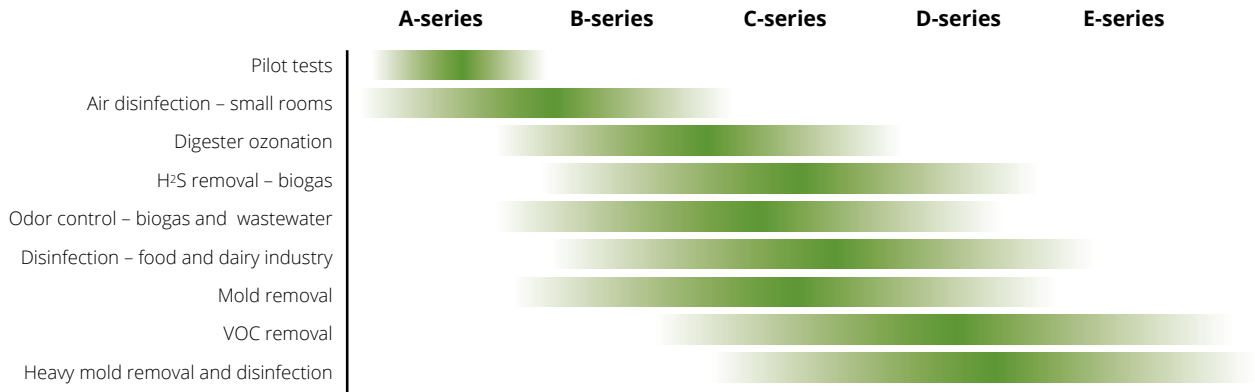
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## Sizing guides for air treatment

### WATER flow and loads



## Applications





## Technical specifications

<b>Ozone production</b>	
Capacity	Up to 0.5 kg/h
Concentration	Up to 240 g/Nm <sup>3</sup>
Distribution	Flexible
<b>Feed gas</b>	
Oxygen	Maximum dew point of -70 °C / 158 °F
Pressure internal	0.8 - 1.2 bar g (11.6 - 17.4 psig)
Gas flow	0.6 to 60 l/min
<b>Electrical properties</b>	
Voltage	230 VAC, 50/60 Hz
<b>Power consumption</b>	
A-series	0.125 - 0.5 kW
B-series	0.25 - 2.75 kW
C-series	1.5 - 3.5 kW
D-series	3.0 - 5.0 kW
E-series	4.0 - 7.0 kW
<b>Connections</b>	
O <sub>2</sub> in	A-series: 6 mm, push in
O <sub>2</sub> out	A-series: 6 mm, compression fitting
Liquid coolant, in	A, B-series: male G3/8"
Liquid coolant, out	A, B-series: male G3/8"
<b>Ozone system</b>	
Size (W x D x H)	800 x 600 x 1800 mm
IP class	64

## Performance and features of Rena Pro

Feature	A-series	B-series	C-series	E-series
High-efficiency ozone generator utilizing HELS™-technology			Yes	
Oxygen supply	Integrated oxygen generator	Integrated oxygen generator	Integrated oxygen generator	Oxygen concentrator with stand-alone compressed air supply
Ambient ozone safety sensor			Up to four sensors (optional)	
Automation	Local control unit	Local control unit	Local control unit	Local control unit with 7" touch panel
Output control range (%)	0-100			
PID controller	No	No	Yes	Yes
Closed cooling system	Optional			
Dimensions (HxWxD), mm	1720x800x600	1720x800x600	1720x750x600	1860x1600x1200
Nominal performance, maximum*	2.5 NL/min at 160 g/Nm <sup>3</sup>	10 NL/min at 130 g/Nm <sup>3</sup>	20 NL/min at 130 g/Nm <sup>3</sup>	80 NL/min at 130 g/Nm <sup>3</sup>
Input power, max (kW)*	1	2.1	4.2	15



RENA Pro A-series and C-series.

# 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 Water Maid, Saniray, Axolot 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](http://www.mellifiq.com)

