



RENA™ Pro

Ozone Systems

A SERIES OF STATE-OF-THE-ART SYSTEMS
FOR AIR AND WATER TREATMENT

 ozonetech.

THE RENA PRO™ SERIES



DISTINGUISHING FEATURE

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

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.

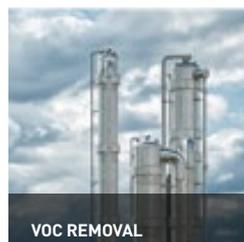
The installation takes place smoothly. No plant rebuilding or production stop needed. And you can be up and running fast. All RENA Pro systems are both turnkey and plug-and-play.

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.

INDUSTRIES



APPLICATION AREAS



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

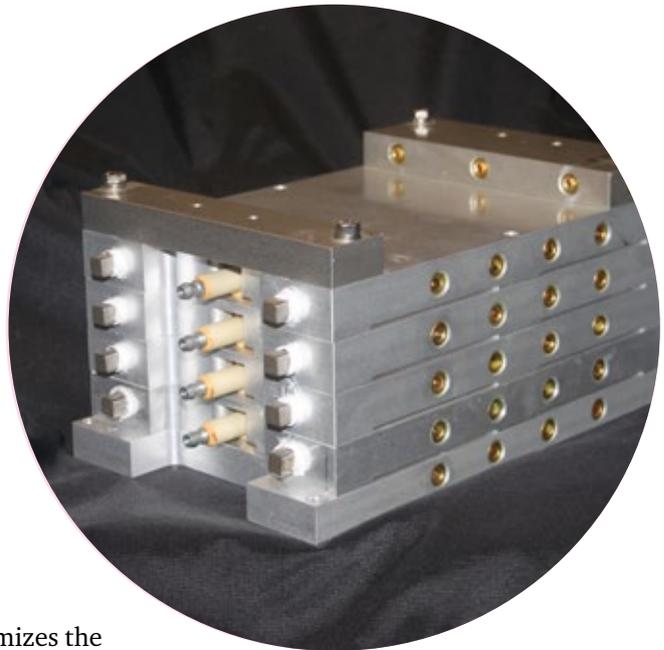
High-performance has a defined meaning: to over an extended period of time produce large quantities of pure ozone, free from impurities. This is the only way to treat large volumes of contaminated air and water with sustained results.

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.

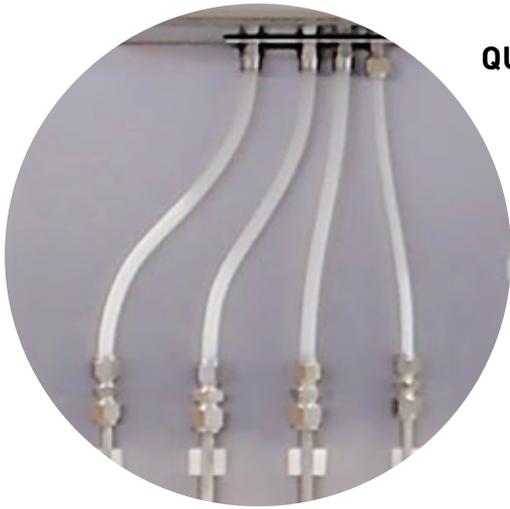
Premium ozone systems are oxygen-fed and liquid-cooled.

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_x , 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.



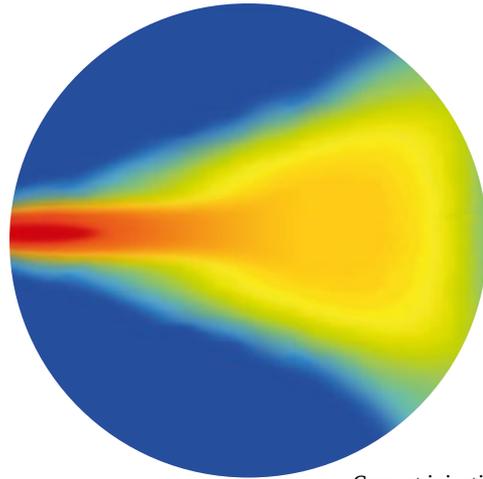
QUALITY

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.

Designed to perform, built to last.

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.



Correct injection point is vital.

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.

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.



Easy to overview and use HMI.

Sensors for safe use.



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.



RENA Pro A-series



RENA Pro C-series



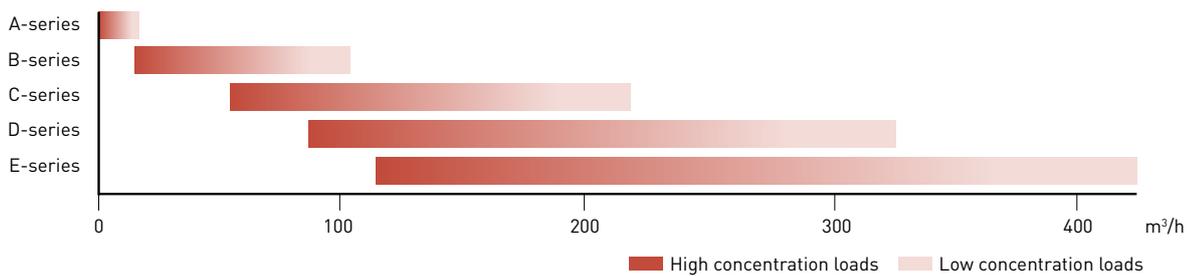
RENA Pro E-series

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

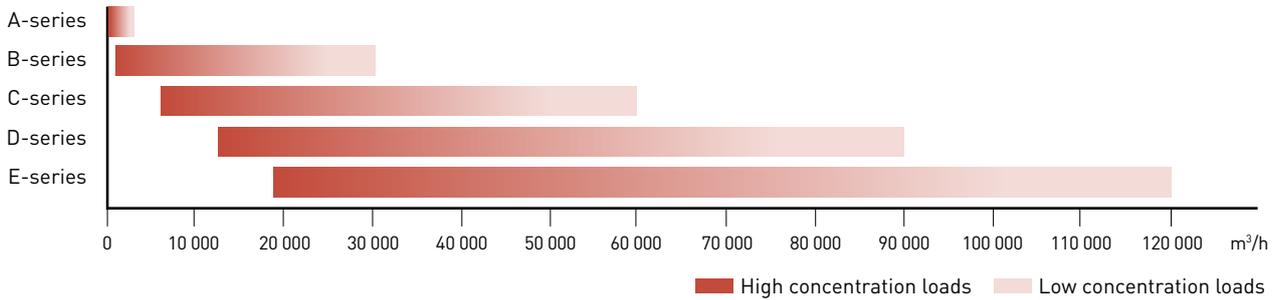


APPLICATIONS

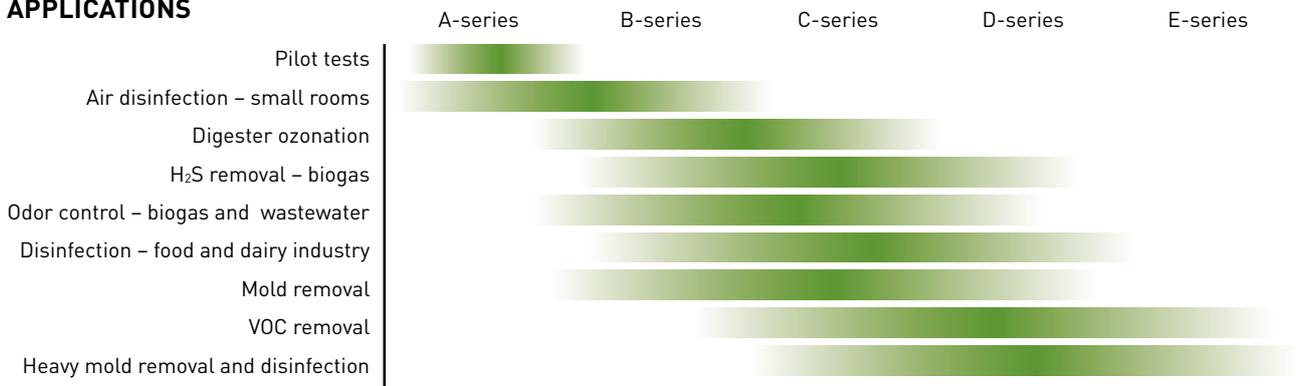
	A-series	B-series	C-series	D-series	E-series
Bottled water	✓	✓	✓	✓	✓
Clean-in-place – breweries	✓	✓	✓	✓	✓
Clean-in-place – food and dairy	✓	✓	✓	✓	✓
Disinfection – cooling towers	✓	✓	✓	✓	✓
Drinking water treatment	✓	✓	✓	✓	✓
Pharmaceutical residues treatment	✓	✓	✓	✓	✓
Disinfection – commercial swimming pools	✓	✓	✓	✓	✓
BOD & COD removal – wastewater treatment	✓	✓	✓	✓	✓

SIZING GUIDES FOR AIR TREATMENT

AIR FLOW AND LOADS



APPLICATIONS



TECHNICAL SPECIFICATIONS

Ozone production

Capacity	Up to 0.5 kg/h
Concentration	Up to 240 g/Nm ³
Distribution	Flexible

Feed gas

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

Electrical properties

Voltage	230 VAC, 50/60 Hz
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Power consumption

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

Connections

O ₂ in	A-series: 6 mm, push in B, C, D, E-series: 8 mm, push in
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O ₃ out	A-series: 6 mm, pipe connection B, C, D, E-series: 8 mm, pipe connection
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Liquid coolant in	8 mm, push in
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Liquid coolant out	8 mm, push in
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Ozone system

Size (W x D x H)	800 x 600 x 1800 mm
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IP Class	64
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About Ozonetech

Ozonetech is an award-winning cleantech company that has offered premium products for air and water treatment since 1993.

Our unique technology and extensive expertise has made us a rapidly growing global company with installations on six continents. All development and manufacturing is located in Sweden. In addition, we have in-house specialists for consultation, planning, installation and service.

As a Center of Excellence within air and water treatment, we also collaborate in international efforts to develop global standards for purification solutions.

At Ozonetech, we have a strong incentive to reduce energy consumption, health risks and the impact on the environment. Our current solutions provide a multitude of benefits in the processing and food industry, real estate, commercial kitchens as well as in the retail market.

For additional information, visit our website at www.ozonetech.com

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