



OWS Series

OWS Series

ELECTROLYTIC OZONE APPLICATION MODULAR SYSTEM

- Water Disinfection
- Water Line Preventive Maintenance
- Point-of-Use Sanitation Integration



NOx Free



No Gas Prep.



Complete
& Turnkey



High Purity
& Solubility

Sanitation Excellence at its Best

Refined Ozone Solution with Exceptional Benefits

Electrolytic Ozone Generation (EOG) stands out as an innovative technology that creates pure ozone from water, diverging from traditional methods that rely on gaseous air or oxygen. In our systems, EOG modules are integrated with a self-contained pure water preparation system, allowing them to function in diverse conditions, requiring only a tap water resource and an electricity supply.

This unique process enables EOG to adapt to various settings, proving an effective and advantageous solution for small to medium commercial-scale applications. It mitigates the inherent drawbacks associated with conventional ozone generation methods that are reliant on air or oxygen preparation.



Air Preparation

No feed gas preparation

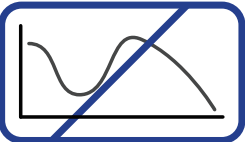


Performance independent to air quality, humidity and flow



NO_x

No Nitric Oxides (NO_x) & Nitrous Acidification



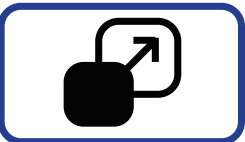
No significant fluctuations in output



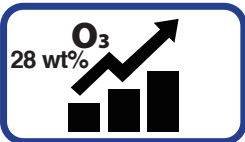
Reduced equipment size and maintenance



Easy integration & operation



Standardized modular design, expandable ozone capacity



28 wt% O₃

Pure ozone generated at high concentrations

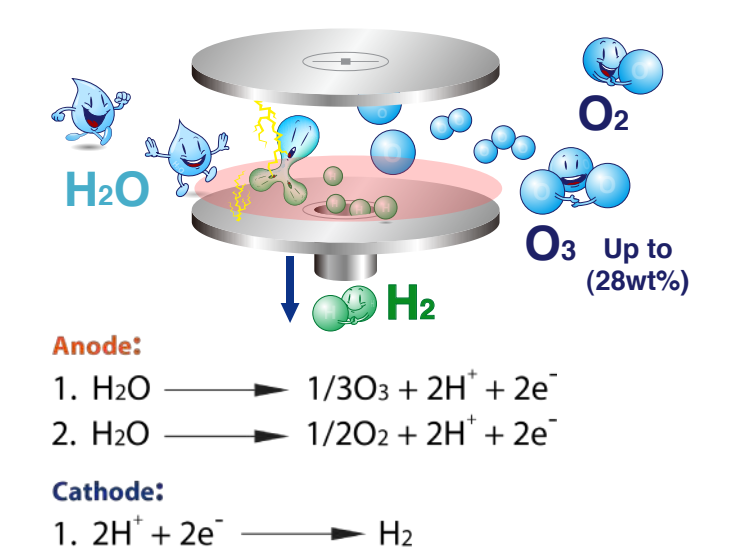


Full time self-monitoring, real-time alarm & service codes

Technology Highlights

- PEM technology
- No ionic contamination
- Instant start-up performance
- Extreme high concentration output
- Solid and durable long working lifespan
- Easily integratable maintaining system integrity
- User friendly with cell controls and performance monitoring
- Modular and scalable intelligent design that is also extremely compact

In the EOG process, the electrolytic cell splits water into its basic elements and then converts part of the liberated oxygen (O₂) into ozone (O₃).



Optimal Ozone Solutions and Applications



Water System Treatment

- Pharmaceutical & Biotechnology
- Bottling Water
- Dialysis Water



Agriculture & Livestock

- Irrigation Water
- Livestock Drinking Water
- Water for Sanitary Environment Cleaning



Cooling Towers

- Legionella Control



Brewing & Winery

- Barrel Sanitization & CIP



Professional Laundry

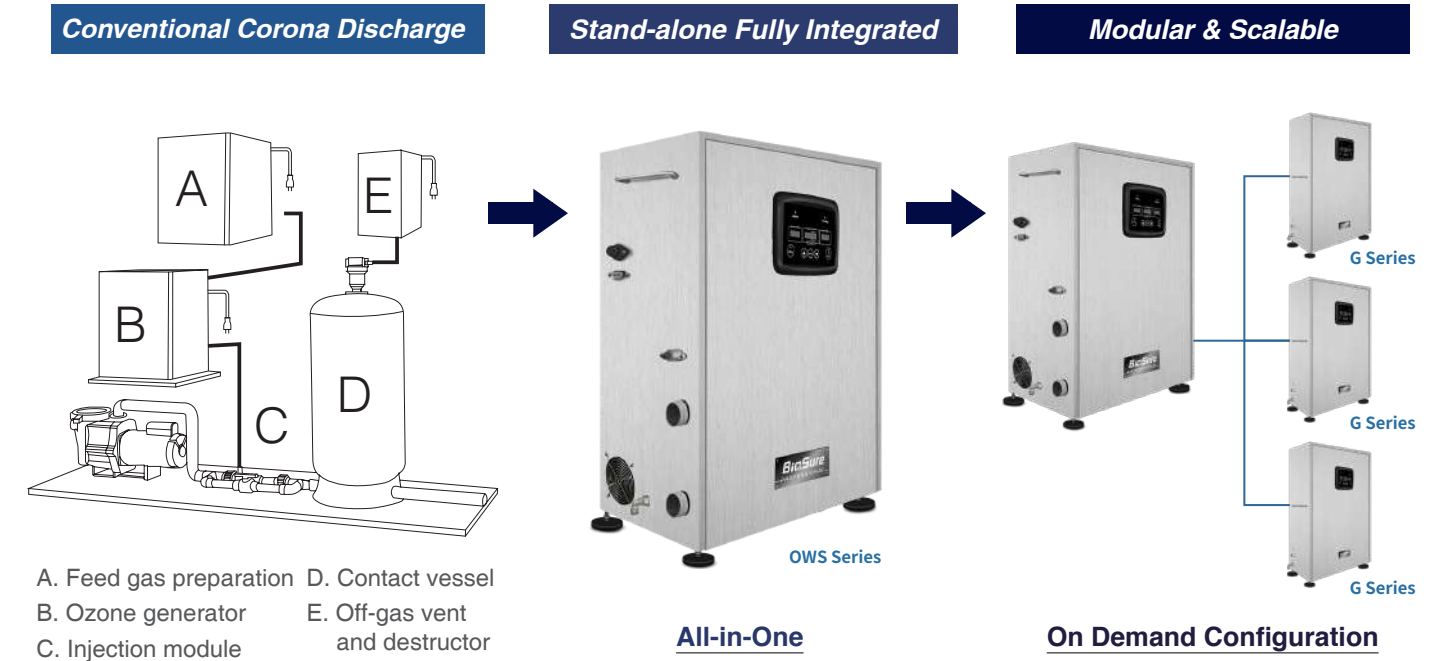
- Health Care
- Laundromats



Food Processing & Grocery Stores

- Tray Washer Integration
- Sanitary Produce Wash
- Processing Water Sanitization
- Food Contact Surface Sanitization
- Sanitary Environment Cleaning

Improved Simplicity - Advanced Integration



Specifications

Product Series		OWS Series (EOG Ozonated Water System)		G series (EOG Ozone Generator)		
Model Name		OWS-1	OWS-3	G3	G6	G9
Model Number		EOS8131-CD	EOS8132-SD	EOS8131-CL	EOS8132-CL	EOS8134-CL
Dimensions (W x D x H)	(mm)	550 x 310 x 680	760 x 350 x 1000	905 x 260 x 1079.5		
	(In.)	21.7 x 12.2 x 25.6	29.9 x 13.8 x 39.4	35.6 x 10.2 x 42.5		
Weight (Net)		50 kg (110.2 lb)	80 kg (176.4 lb)	60 kg (132.3 lb)	68 kg (149.9 lb)	75 kg (165.3 lb)
Ozone Production*1		1.0 g/hr	3.0 g/hr	3.0 g/hr	6.0 g/hr	9.0 g/hr
Ozone Concentration		20 - 28 wt%*2				
Water Ozonation	Stand-alone System Output Concentrations	4.0 - 0.1 ppm*3	10.0 - 0.3 ppm*3	By integrating with the OWS system, optimal environmental and hydraulic setup can increase total ozone dissolution and utilization efficiency up to 75%.		
	Stand-alone System Operating Flow Rate	200 - 6000 LPH (0.9 - 26.4 GPM)				
	Stand-alone System Operating Pressure	≤ Input pressure (max. 4 kg/cm² or 57 psi)				
	System Scalability	Up to 30 g/hr of O ₃ including system self-produced and externally supplied by G series connections.				
Power Supply		100 - 120VAC, 60Hz or 220 - 240VAC, 50Hz or 220 - 240VAC, 60Hz		100 - 120VAC or 220 - 240VAC, 50/60Hz		
Rated Power		950W@100 - 120VAC; 750W@220 - 240VAC	1150W@100 - 120VAC; 950W@220 - 240VAC	300W	600W	900W
Operating Environment		Ambient temperature: 5 to 35°C (41 to 95°F) ; Humidity: 10 to 90% RH (no condensation)				
iEOG Water Feed Requirements		5 - 30°C (41 - 86°F), Conductivity < 500 µs/cm, Chlorine < 0.1ppm, Flow rate ≥ 500 LPH (2.2 GPM), Pressure 2 - 7 kg/cm2 (29 - 100 psi)				
Materials		Enclosure: Stainless Steel 304 Interior - wet surface and ozone contact: Stainless Steel 304 , Titanium, PVDF, PTFE, VITON				
Protection Class		IPX2				
Conformity		ISO, CE, NSF, RoHS US EPA Product Registration EU Authorized Biocidal Product Manufacturer				

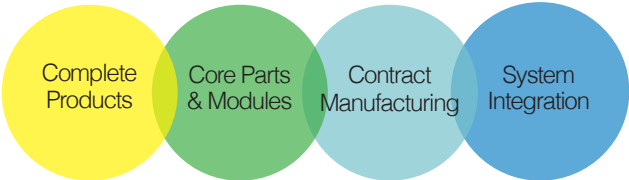
*1. The ozone production data is provided under standard conditions and continuous generator operation. Actual generation performance might vary from the listed data due to operational factors, including power supply, ambient and water temperatures, as well as water quality.

*2. The optimal ozone purity value is derived under specific laboratory operational conditions.

*3. The test conditions for this specification are: Ambient Temperature = 25°C (77°F); Water Temperature = 20°C (68°F); Dynamic Water Pressure = 3.0 bar (43.5 psi); Clean Filtered Water, TDS < 20 ppm. The measurement device is UV Absorbance Ozone Photometer Dissolved Ozone Analyzer: Model EL-550JA, EBARA JITSUGYO MEASURING INSTRUMENT (Measuring Ranges: 0.01-10.00 ppm; Min. Detect Limit / Accuracy: 0.01 ppm / ±1%).

About Us

BES Group, a leader in electrolytic technology since 1988, provides products that generate ultra-pure ozone and hydrogen through water electrolysis. Our solutions are widely adopted across various industries, including Sanitary & Wellness, HORECA, Food Supply, Health & Hygiene Care, and Water System Treatment. BES Group products undergo rigorous testing for high performance, safety, and reliability. They are certified by government agencies and renowned third-party laboratories, ensuring the highest quality standards for our customers.



North America
BIOSURE NORTH AMERICA, LLC.
San Antonio, Texas
www.biosureozone.com

Oceania
BES GROUP (AUST) PTY LTD.
Melbourne, Victoria
www.besgroups.com.au



United Kingdom
BIOTEK ENVIRONMENTAL SCIENCE UK LTD.
Cumbernauld, Scotland
www.biosureozone.com.uk

China
ZHONGTE ENVIRONMENTAL TECHNOLOGY CO., LTD.
Shanghai
www.biosurepro.com

