

## Ozone Generators – Electrolytic OWS



OWS Series



G Series

### Features

- Reduced maintenance
- No feed gas preparation
- Easy to install and operate
- High performance and reliability
- High purity ozone production up to 28% ww
- Compact design

### Benefits

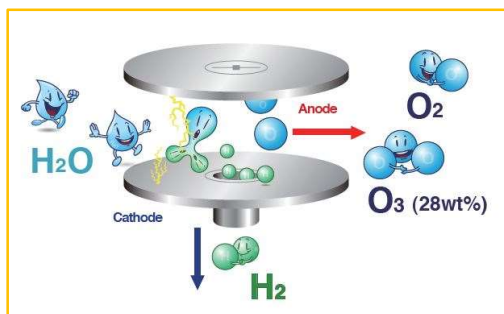
Electrolytic Ozone Generation (EOG) is a novel technology which produces pure ozone from water instead of air or oxygen.

IEOG (Indirect Electrolytic Ozone Generation) is a unique process which includes a built-in pure water preparation system for use in the internal EOG module. They are capable of working in most conditions as long as tap water and power are available.

IEOG is an effective and beneficial solution for small to medium commercial scale applications. The technology has none of the inherent disadvantages associated with conventional ozone processes which rely on air or oxygen gas feed supply.

### Technology Highlights

- PEM technology
- No ionic contamination
- Instant start-up performance
- Extreme high concentration output
- Solid and durable long working life
- Simple interface to easily interactable maintain system integrity
- User friendly with cell control and performance monitoring
- Modular and scalable intelligent design



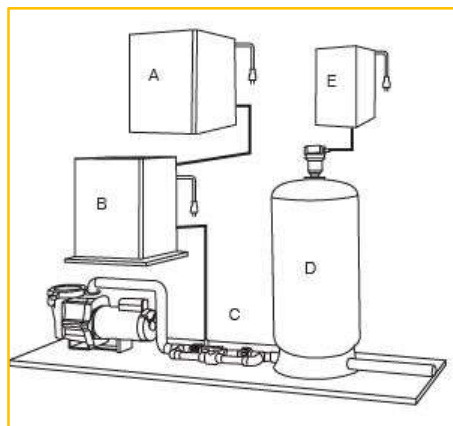
In the EOG process, the electrolytic cell splits water into its basic elements and then converts part of the liberated oxygen ( $O_2$ ) into

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### Applications

- *Pure and Ultrapure Water – Recirculation Water Loop Disinfection*
  - Electronics
  - Cosmetics
  - Pharmaceutical
  - Biotechnology
- *Cooling Towers*
  - Replace chemical biocide
  - Legionella control
  - Cost savings
- *Beverage and Breweries*
  - Process water disinfection
  - Bottle rinsing
  - Barrel washing wineries
  - Clean-in-place (CIP) Integration
- *Food Processing and Food Safety*
  - Replace or reduce chemical sanitiser
  - Food contact sanitation
  - Tanks or container washing
  - Tray washer integration
- *Medical Water*
  - Water and waterline disinfection
  - Waterline biofilm removal and prevention
- *Water Features*
  - Water sanitation
  - Legionella
  - Replace chemical biocides
- *Agriculture and Greenhouse*
  - Complete chemical-free microbial control
  - Growing surface sanitation
  - Mist and drip system integration
- *Commercial Laundry*
  - Clinics and hospital
  - Senior care and welfare institutes
  - Laundromats

*Corona Discharge*



- A. Feed gas preparation
- B. Ozone generator
- C. Injection module
- D. Contact vessel
- E. Off-gas vent and destructor

*Integrated Solution*



*OWS Series*



*Improved  
simplicity*

## Ozone Generators – Electrolytic OWS

### Specifications

Series		OWS Series		G Series		
Model Name		OWS-1	OWS-3	G3	G6	G9
Model Number		EOS8131-CD	EOS8132-CD	EOS8131-CL	EOS8132-CL	EOS8134-CL
System Type		Modular IEOG ozonated water system		Scalable IEOG ozone generator		
Output Property		Dissolved ozone in solution		28% w/w ozone gas		
Ozone Production		1.2g/h	3g/h	3g/h	6g/h	9g/h
				Equivalent to 15g 30g and 45g O <sub>3</sub> /h by O <sub>2</sub> feed corona discharge ozone generator		
Water Ozonation	Scale	Up to 30g O <sub>3</sub> /h including self-produced		NA		
	Flow Rate	200-6000lph (0.88 - 26.42gpm)				
	Pressure	≤ Input press. (max. 5kg/cm <sup>2</sup> or 71psi)				
	Conc. Level ppm	Depend on the amount of ozone supplied, water flow and dissolution rate. Suggested given quotes to the dissolution rate in a result calculation are: • 85% for G-Series + OWS Series or OWS-Series • 50-65% for G-Series applied with a venturi				
IEOG Feedwater Requirements		5 - 30°C (41 - 86°F), conductivity < 500µs/cm, chlorine < 0.1ppm flow rate ≥ 400lph (1.76gpm), pressure 2 – 7kg/cm <sup>2</sup> (29 – 100psi)				
Ambient Temp. and RH%		5 - 35°C (41 - 95°F) and < 90%				
Power Supply		100 – 120V, 50/60 Hz or 200 – 240V, 50/60 Hz				
Rated Power		900W	1150W	300W	600W	900W
Protection Class		IPX2				
Materials		Enclosure: stainless steel 304 Interior: wet surface and ozone contact: stainless steel 304*, titanium, PVDF, viton				
Dimensions (w x d x h)		550 x 310 x 680mm 21.7 x 12.2 x 25.6"	760x350x1034mm 29.9 x 13.8 x 40.7"	760 x 350 x 1034mm 29.9 x 13.8 x 40.7"		
Weight		50kg (110lbs)	80kg (243lbs)	60kg (132lbs)	67kg (148lbs)	75kg (165lbs)
Connections	IEOG Feedwater Inlet	3/8" compression connect				
	External Supply Inlet	3/8" compression connect				
	Water Inlet & Outlet	1 ½"		NA		
	Gas Outlet	NA		3/8" compression connect		
	Drain	3/8" push fit quick connect				
Control Method		Primary: built-in flow switch Alternative/Optional: external timer switch or contact type on-off switch or similar				