



# OSMONICS

Process Water Group

## E-Series Ozone Generator

(2-57 g/hr / 1-10% wt concentration)



E-Series Ozone Generator

### Quantum Leap in Ozone

A Quantum Leap in Ozone Generation --- The Osmonics E-Series ozone generator sets the industry standard for customers demanding stable ozone output and reliability. The performance of E-Series is unequalled in the industry, with the capability of reliably producing high concentration ozone - to 10% by weight, while efficiently producing up to 3 ppd (57 g/hr) of ozone. To do this, our engineers have integrated an innovative water-cooled ozone generation cell with an advanced control system.

The control system in the E-Series is extremely flexible, providing the needed sophistication to integrate seamlessly into demanding plant applications - yet simple enough to operate as a stand-alone unit. The operator interface is menu driven, intuitive and provides security modes for both operator and plant technician.

### Applications

- Bottled Water
- Industrial Processes
- Aquatic Life Support Systems
- Pharmaceutical
- Food Processing
- Wastewater Treatment

### Pre-Engineered Accessories

- Feed Gas Supply Systems
- Oxygen Concentrator Systems
- Ozone Injection Skids
- 316LSS Contact Towers
- Automated Control Systems
- Ozone Destruct Modules
- Ambient Ozone Monitors
- Dissolved Ozone Monitors

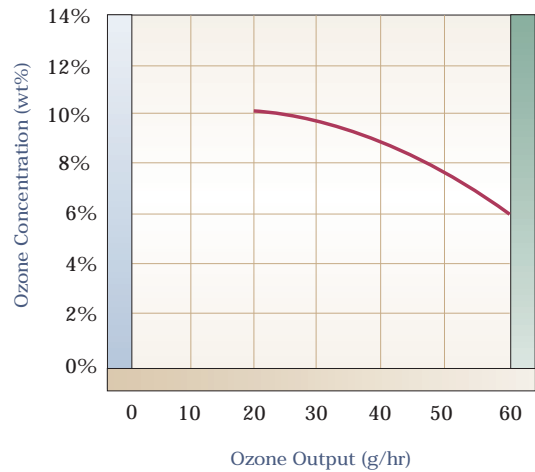
### Features and Benefits

- High concentration ozone (1-10% by weight)  
Low parent gas usage equals low operating cost
- Advanced control system  
Extremely flexible control system that includes interfaces for front panel operation, from an easy to use local mode to a remote mode controlled by an industry standard 4-20 mA current loop
- Water cooled solid state power supply and controls  
Stable and reliable production of ozone
- Durable ceramic cell construction  
No cell breakage during maintenance or due to shipping damage
- Worldwide input power compatibility  
It will work anywhere in the world with single phase power
- Menu driven interface
- Environmentally protected in a 304 stainless steel enclosure
- Compact - wall mountable design  
Allows easy installation

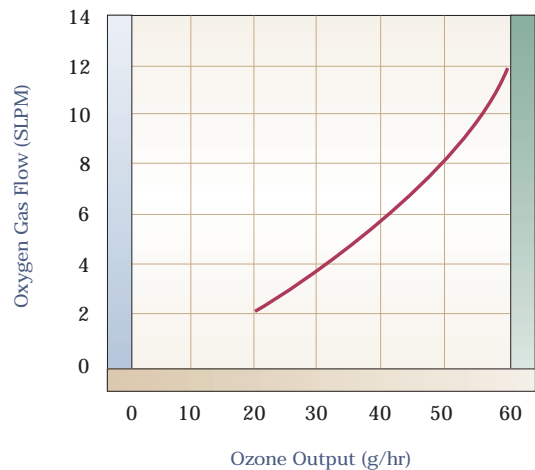
## Product Specifications

<b>Performance Characteristics <sup>1</sup></b>		
Output at 6% Wt	3 ppd	57 g/hr
Output at 8% Wt	2 ppd	38 g/hr
Output at 10% Wt	1 ppd	19 g/hr
<b>Physical Characteristics</b>		
Width	20 in.	510 mm
Height	20 in.	510 mm
Depth	14 in.	305 mm
Weight	90 lb.	41 kg.
<b>Utility Connections</b>		
Water Connections	1/8" FNPT or 1/4" OD Tube Fitting	
Gas Connections	1/8" FNPT or 1/4" OD Tube Fitting	
Power Connection (1 location)	PG13,5 Gland	
Control Connection (2 locations)	PG13,5 Gland	
<b>Utility Requirements</b>		
Parent Gas		
Gas Flow	4-23 ft <sup>3</sup> /h	2-11 slpm
Composition	>90% Oxygen	
Operating Pressure Range	9-20 psig	.62-1.4 bar
Operating Temperature Range	40-120°F	4.4-49°C
Maximum Dew Point	-80°F	-62°C
Cooling Water <sup>2</sup>		
Temperature Range	50°F-85°F	10°C-30°C
Maximum Inlet Pressure <sup>3</sup>	30 psig	2.1 bar
Nominal Flow	0.5 gpm	1.9 l/m
<b>Inlet Power Requirements</b>		
Voltage	1 Phase - 200-240 VAC	
Maximum Power Consumption	750 Watts (3.1-3.5 amps)	
Frequency	50/60 Hz	
<b>Control Input/Output</b>		
Inputs		
Room Ozone Alarm	Dry Contact Close Inhibit	
Remote Enable	Dry Contact Open Inhibit	
Remote Control	4-20 mA (0-100% Output)	
Outputs		
Remote Only Alarm	Dry Contact Open Fault	
	Dry Contact Close Fault	
Local		
Display	Backlit Graphic LCD Display	
Keyboard	Sealed 16 Key Membrane	

## Ozone Concentration vs. Output



## Oxygen Gas Flow vs. Output



<sup>1</sup>Performance Characteristics based on a parent gas inlet pressure of 15 psi (consisting of >90% oxygen at a maximum dew point of -80°F) and 70°F (21°C) cooling water flowing at 0.5 gpm (1.9 l/m) for Model EO-1.

<sup>2</sup>Cooling Water shall be potable quality or better. Minimum Temperature to be greater a ambient dew point.

<sup>3</sup>Flow control must be placed on inlet to the water connection and the outlet must flow to drain.

For More Information:

Call Osmonics Process Water Group at (952) 933-2277 or (888) 898-6766, or visit [www.osmonics.com](http://www.osmonics.com)



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