



E-Series Ozone Generators (2-114 g/hr / 1-10% wt concentration)

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 6 ppd (114 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 a menu driven, intuitive and provides security modes for both operator and plant technician.

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 due to maintenance or shipping damage
- Worldwide input power compatibility
It will work anywhere in the world with single phase power
- Designed to meet UL / CSA / CE requirements
Universal acceptance
- Environmentally protected in a 304 stainless steel enclosure
- Compact - wall mountable design
Allows easy installation

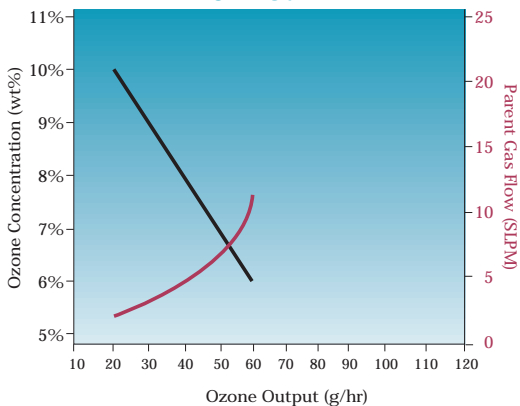
Applications

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

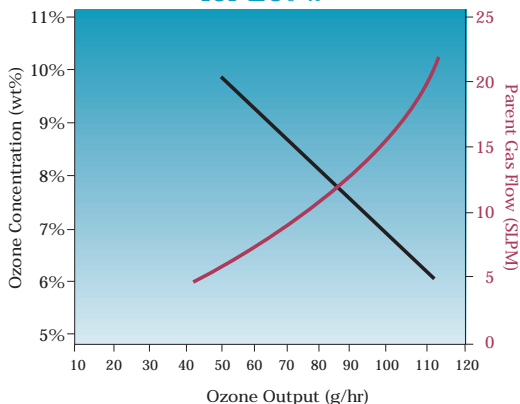
Pre-Engineered Accessories

- Feed Gas Supply Systems
- Oxygen Concentrator Systems
- Ozone Injection Skids
- Contacting Systems
- Automated Control Systems
- Ozone Destruct Modules
- Ambient Ozone Monitors
- Dissolved Ozone Monitors

Ozone Concentration vs. Output
for EO₃-1



Ozone Concentration vs. Output
for EO₃-2



Product Information

Product Specifications	EO ₃ -1		EO ₃ -2	
Performance Characteristics ¹ Output at 6% Wt Output at 8% Wt Output at 10% Wt	3 ppd 2 ppd 1 ppd	57 g/hr 38 g/hr 19 g/hr	6 ppd 4 ppd 2 ppd	114 g/hr 76 g/hr 38 g/hr
Physical Characteristics Width Height Depth Weight	20 in. 20 in. 14 in. 90 lb.	510 mm 510 mm 305 mm 41 kg.	40 in. 40 in. 12 in. 150 lb.	1020 mm 1020 mm 305 mm 68 kg.
Utility Connections Water Connections Gas Connections Power Connection (1 location) Control Connection (1 location)	1/8" FNPT or 1/4" OD Tube Fitting 1/8" FNPT or 1/4" OD Tube Fitting PG13,5 Gland PG13,5 Gland		1/8" FNPT or 1/4" OD Tube Fitting 1/8" FNPT or 1/4" OD Tube Fitting PG13,5 Gland PG13,5 Gland	
Utility Requirements Parent Gas Composition Operating Pressure Range Operating Temperature Range Maximum Dew Point Cooling Water ² Temperature Range Maximum Inlet Pressure ³ Nominal Flow	>90% Oxygen 9/20 psig .62/1.4 bar 40/120°F 4.4/49°C -80°F -62°C		>90% Oxygen 9/20 psig .62/1.4 bar 40/120°F 4.4/49°C -80°F -62°C	
Inlet Power Requirements Voltage Maximum Power Consumption Frequency	1 Phase - 100/240 VAC 750 Watts 48/62 Hz		1 Phase - 100/240 VAC 1500 Watts 48/62 Hz	
Control Input/Output Inputs Room Ozone Alarm Remote Alarm Remote Output Water Meter Outputs System Operating Alarm Local Display Keyboard	Dry Contact Open Inhibit Dry Contact Open Inhibit 4-20 mA (0-100% Output) Pulsed Dry Contact		Dry Contact Open Inhibit Dry Contact Open Inhibit 4-20 mA (0-100% Output) Pulsed Dry Contact	
	Dry Contact Open Fault Dry Contact Open Fault		Dry Contact Open Fault Dry Contact Open Fault	
	Backlit Graphic LCD Display Sealed 16 Key Membrane		Backlit Graphic LCD Display Sealed 16 Key Membrane	

¹Performance 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 EO₃-1 and 1.0 gpm (3.8 l/m) for Model EO₃-2.

²Cooling Water shall be potable quality or better.

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

Call (952) 933-2277 for additional information, (800) 848-1750 in the U.S., or visit www.osmonics.com



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