



Wall-mountable EO3™ system with stainless steel frame, ozone generator, air filtration, and oxygen concentrator.¹



Plasma &

Reactive Gas Solutions

WWW.MKSINST.COM

EO3™

ROBUST, COST-EFFECTIVE OZONE GENERATOR AND SYSTEM FOR DIVERSE INDUSTRIES, WITH OPTIONAL AIR FILTRATION SKID

The MKS E-Series ozone generator is the industry leader for stable, efficient ozone for sanitation applications. The EO3™ generator reliably produces high concentration ozone ranging from 6 to 10% by weight, while efficiently producing up to 3 ppd (57 g/hr) of ozone. The EO3 ozone generator uses flat plate ozone generation technology and an oxygen generation system. The standard system design is dual rated for 50/60 Hz operation and requires one single point power connection, enabling global operation.

The EO3 series is available as a stand alone generator as well as part of an ozone generating system. The EO3 System integrates the EO3 ozone generator with an oxygen concentrator, and air filtration system in a single ready-to-use skid, enabling customers to quickly integrate and use ozone in their sanitation process.

Features & Benefits

EO3™ Generator

- Compact generator design encased in a 304 SS enclosure
- High concentration ozone (6 - 10% by weight)
- Flexible, advanced control system with dual interface for front panel operation
 - Easy-to-use local mode for at-tool data review
 - Remote mode controlled by industry standard 4 – 20 mA current loop
- Durable ceramic flat plate cell construction
- Worldwide input power compatibility
- Reduced chemical usage for increased safety and chemical handling
- Reduced energy consumption for greater cost savings
- Low parent gas usage further lowers operating costs
- Greater environmental compliance
- Superior quality
- Easy installation

Note:

¹ Wheeled blue display skid not included with purchase.



Features and Benefits (cont'd)

EO3™ System

- Fully integrated system eliminates need to source and assemble individual components, shortening time to market and learning curve.

System includes:

- EO3 Generator
- Stainless steel frame for wall mounting
- Oxygen concentrator
- Three pressure regulators for air into and oxygen out of the oxygen concentrator and for cooling water
- Multi-level supply air filtration for oil, particles, and hydrocarbon adsorption
- Cooling water low flow switch and automatic inlet on/off valve

Applications

- Bottled Water
- Soda, juice, and other bottled beverages
- Beer and wine sanitation
- Food Processing – produce, meat, and Ready-to-Eat (RTE) food
- Industrial Processes
- Surface sanitation



Figure 1 —
EO3 Generator

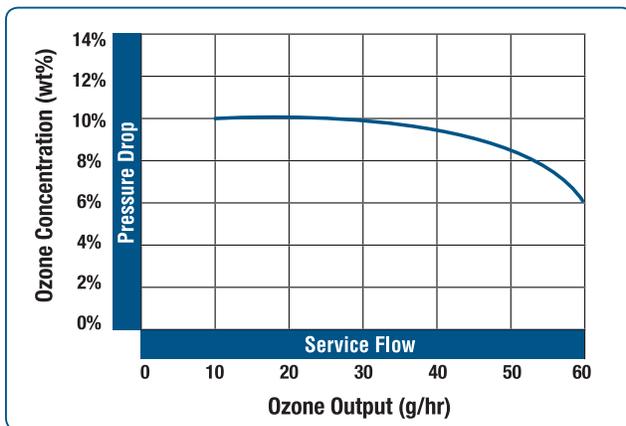


Figure 2 —
Ozone Concentration vs. Output

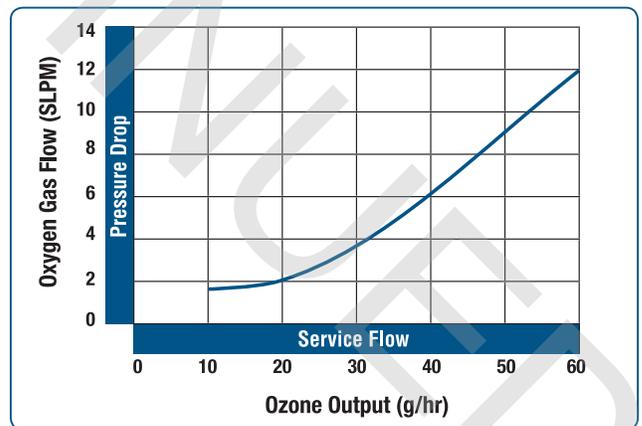


Figure 3 —
Oxygen Gas Flow vs. Output



Specifications

Performance Characteristics ²	
Ozone Generator Ozone Output Ozone Concentration Gas Outlet Pressure	0.5 - 3lbs/day (10-57 g/hr) 10 - 6% 4 - 15 psig
Oxygen Concentrator Gas Output Parent Gas Drying Capability	25 scfh at 90% oxygen weight conc. Compressed Air -100°F dew point
Materials of Construction Frame Enclosure O ₂ /O ₃ Gas Tubing Air Tubing Water Tubing	304 Stainless Steel Brushed Stainless Steel PTFE/304 Stainless Steel Polypropylene Polypropylene
Installation and Utility Requirements Cooling Water Flow ³ Cooling Water Inlet/Outlet Compressed Air Flow Compressed Air Inlet Ozone Gas Piping Inlet Electrical Power EO3 Generator Dimensions EO3 System Dimensions Approximate Shipping Weight	0.5 gpm (at 20-40 psig) at 50-85°F (at or above ambient dew point) 0.25" FNPT 5.5 cfm at 45 psig (11 scfm) 0.5" FNPT 0.25" MNPT 208 - 240VAC, 1-phase, 50/60 Hz, 3.5 Amps Full Load 18"W x 18"H x 13"D 18"W x 71"H x 15"D 200 lbs
Control Input/Output Inputs Room Ozone Alarm Remote Enable Remote Control Outputs Remote Ready Alarm Local Display Keyboard	Dry Contact Close to Run Dry Contact Close to Run 4 - 20 mA 10-100% Output Dry Contact Dry Contact Close Fault Backlit Graphic LCD Display Sealed 16 Key Membrane
Notes: ² 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 the EO3 generator. ³ Cooling water shall be potable quality or better. Minimum temperature to be greater than ambient dew point.	

Ordering Information

Ordering Code	Part Number
EO3 Generator	AX8803
EO3 System (Generator and Air Filtration)	AX8823

For service and repairs on your EO3 generator, please review <http://www.mksinst.com/service/servicehowtoorder.aspx>.



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