

## Ozone: Simplified

## Specifications &amp; Requirements

**Enclosure**

Sealed NEMA 12 with Integral Cooler **Optional: NEMA 4X**  
 Minimum Clearance: Front/Back/Right 36 in (915 mm) / Left 18 in (457.5 mm)  
 Dimensions (LxDxH): 75" (1,905 mm) x 35" (889 mm) x 92" (2,237 mm)  
 Weight: 1,700 lbs (771 kg)

**Facility Connection Requirements**

Oxygen Inlet: 3/4" Tube  
 Ozone Outlet: 3/4" Tube  
 Cooling Water Supply (CWS) & Return (CWR): 3/4" Tube  
 Electrical Service: 208VAC/3ph/50-60Hz/ 110A (79 FLA)  
 Compressed Air Feed: 1/4" Push Lock (~1 cfm)

**Ozone Output**

**Ozone Output (LOX):** up to 91.2 kg/d (201.1 ppd) @ 10% concentration, 103.2 kg/d (227.5 ppd) @ 8% concentration.

**Ozone Output (PSA):** up to 76.8 kg/d (169.3 ppd) @ 10% concentration, 84 kg/d (185.2 ppd) @ 8% concentration.

Outlet Pressure: Up to 25 psig

**Oxygen Requirements**

PSA, VSA, VPSA or LOX

O<sub>2</sub> Requirement: 116.55 slpm/Kg-O<sub>3</sub> (52.87 slpm/lb-O<sub>3</sub>) at 10% operating concentration.

PSA/VSA Oxygen Feed: oxygen concentration ≥ 93%

Max 0.1 µm Filter Inlet (*Upon request*)

N<sub>2</sub> Feed NOT required.

**Cooling Water Requirements**

Type: Closed-Loop Chilled Water

Fluid: Food Grade Glycol-Water Blend (30/70 blend, not included)

Typical Required Cooling Water Flow: ~20 gpm

Cooling Load: ~8.5

**Controls & Communication**

PLC: Allen Bradley CompactLogix **Optional: Schneider and Siemens.**

HMI: Allen Bradley PanelView Color 15" **Optional: Schneider and Siemens.**

Remote Access: Ethernet/IP/Webserver Interface. Ethernet Switch Provided.

Uninterruptible Power Supply

**Controls Routines**

Routines: Fixed or Variable O<sub>3</sub> %BW

Automatic: PID ORP (mv) or PID DO<sub>3</sub> (ppm)

Manual: Fixed Output (ppd or kg/h) or Full Manual

**Accessories & Instrumentation**

- . 45 kVA Step Down Transformer
- . Enclosure Ambient O<sub>3</sub> Analyzer
- . Enclosure Ambient Temperature Transmitter
- . O<sub>2</sub> Inlet Mass Flowmeter & Manual Rotameter
- . O<sub>2</sub> Inlet Temperature Transmitter
- . O<sub>2</sub> Inlet Pressure Transmitter
- . O<sub>3</sub> Outlet Pressure Transmitter
- . O<sub>3</sub> High Concentration Analyzer
- . Inlet/Outlet Cooling Water Temperature

**Compliance & Certifications**

- . UL 508A Listed, CSA, CE

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## Footprint Overview

