 **ABSOLUTE OZONE®**  
**MAGNUM 160**

## **160G/H AIR-COOLED OZONE GENERATOR**



Absolute Ozone Generators are a quantum leap in ozone technology. Due to very high precision design, utilizing micro-fluidic platform technology and excellent durability, all air-cooled Absolute Ozone | ozone generators reliably deliver ultra pure, high concentration ozone for a wide variety of special applications. The performance is unequalled in the industry with the capability of producing high concentration ozone up to 12% by weight - guaranteed.

### **SPECIFICATIONS**

#### **MAGNUM 160**

**Ozone (O<sub>3</sub>) Production:** 160 g/h  
**Working Pressure:** 30-50 PSIG  
**Concentration:** Up to 12% by weight Guaranteed  
**Feed Gas (O<sub>2</sub>) Flow Rate:** 0.1-35 SLPM

**Dimensions:** 14 x 26.5 x 7 inches  
**Weight:** 70 lbs.

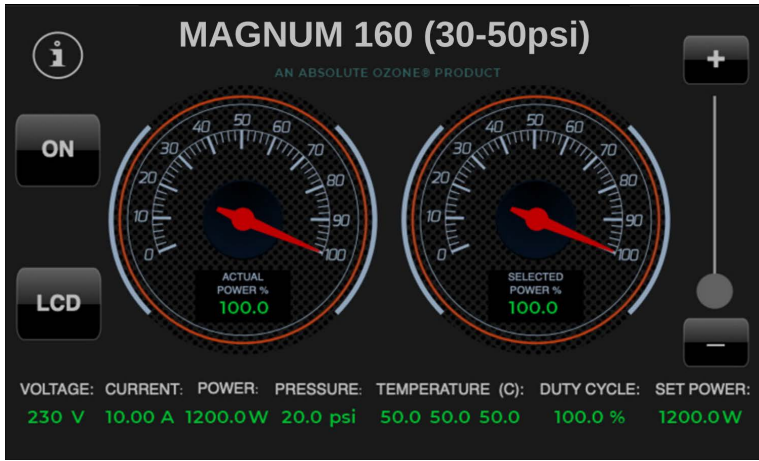
**Control Power Requirements:** 230VAC ~ +/-10%, 50/60Hz, 3 Phase, 6.0A  
Maximum Power Consumption: 1600W

**Physical Connections:** O<sub>2</sub> Inlet: 0.375" SS316 Comp. Swagelok Type Connector  
O<sub>3</sub> Outlet: 0.375" SS316 Comp. Swagelok Type Connector

### **NEW FEATURES**

#### **SMARTEST OZONE GENERATOR IN THE WORLD**

Introducing the first-of-its-kind **iOzone ON-BOARD DIAGNOSTIC & CONTROL SYSTEM**, included in all Absolute Ozone ozone generators. This new technology offers on-screen prompts that allow the operator to easily monitor most operating parameters, including temperature, pressure, voltage, and more, all from the convenience of a 5-inch LCD touch screen display. Additionally, the control system is designed to maintain constant ozone production and adjust power to accommodate voltage and gas pressure fluctuations (within range). It also automatically lowers power if operating in high ambient temperatures, among other features.



The LCD screen displays the following parameters:

- Selected power setting %, so you will be able to see on the screen power selected by the remote control or slider
- Actual system power (% & Watt)
- The system voltage (V)
- The System Current (Amp)
- Temperature inside the ozone cell
- The LCD screen will allow by touch to switch the generator on and off and to adjust desire power by moving slider on the screen with your finger up or down

### ON-BOARD LIVE AUTOMATIC DIAGNOSTICS

In a case when incorrect operating parameters are applied to an ozone generator the unit is switched off by the control system and the LCD screen will indicate which of the parameters caused the generator shutdown.

In a safety shutdown mode, the generator will be constantly monitoring operating parameters, and the moment they are corrected the generator will restart automatically, without any assistance.

**WARNING!** X

**OZONE CELL TEMPERATURE TOO HIGH**

CHECK AMBIENT TEMPERATURE AND/OR AIR FLOW THROUGH OZONE GENERATOR FOR OBSTRUCTIONS

**WARNING!** X

**OZONE CELL PRESSURE TOO LOW**

CORRECT THE PROBLEM BY REMOVING POSSIBLE RESTRICTIONS ON O2 LINE AND ADJUST O3 FLOW ACCORDING TO PERFORMANCE CHART

**WARNING!** X

**OZONE CELL PRESSURE TOO HIGH**

ADJUST PRESSURE REGULATOR TO SPECIFIED WORKING PRESSURE TO CORRECT PROBLEM

**WARNING!** X

**OZONE CELL CONTAMINATION**

PLEASE ELIMINATE SOURCE OF CONTAMINATION AND CONTACT SERVICE FOR FURTHER INSTRUCTIONS

**WARNING!** X

**SUPPLY VOLTAGE TOO LOW**

CHECK WIRING AND SUPPLY VOLTAGE AND CORRECT BEFORE TURNING ON OZONE GENERATOR AGAIN

**WARNING!** X

**SYSTEM COMMUNICATION PROBLEM**

OZONE GENERATOR WILL AUTO-RESTART IF PROBLEM PERSISTS PLEASE CONTACT SERVICE IMMEDIATELY

**WARNING!** X

**OZONE SENSOR PROBLEM**

OZONE GENERATOR WILL AUTO-RESTART IF PROBLEM PERSISTS PLEASE CONTACT SERVICE IMMEDIATELY

**WARNING!** X

**SUPPLY VOLTAGE TOO HIGH**

CHECK WIRING AND SUPPLY VOLTAGE AND CORRECT BEFORE TURNING ON OZONE GENERATOR AGAIN

**WARNING!** X

**INCORRECT REMOTE CONTROL VOLTAGE**

PLEASE CORRECT R/C WIRING AND OZONE GENERATOR WILL AUTO-RESTART, SEE MANUAL FOR MORE INFO

Absolute Ozone | Ozone Generators produce ozone at unsurpassed by competitors high concentration ozone. Laws of physics dictate that the maximum amount of ozone dissolved in water is proportional to the ozone concentration produced by the ozone generator. Therefore, an MAGNUM 160 (160g/h) ozone generator will dissolve more ozone in water and provide higher disinfection rates in comparison to most ozone generators available on the market today. This high efficiency and high concentration ozone will save the user as much as \$12,000 on the price of the ozone system even for a small scale system.

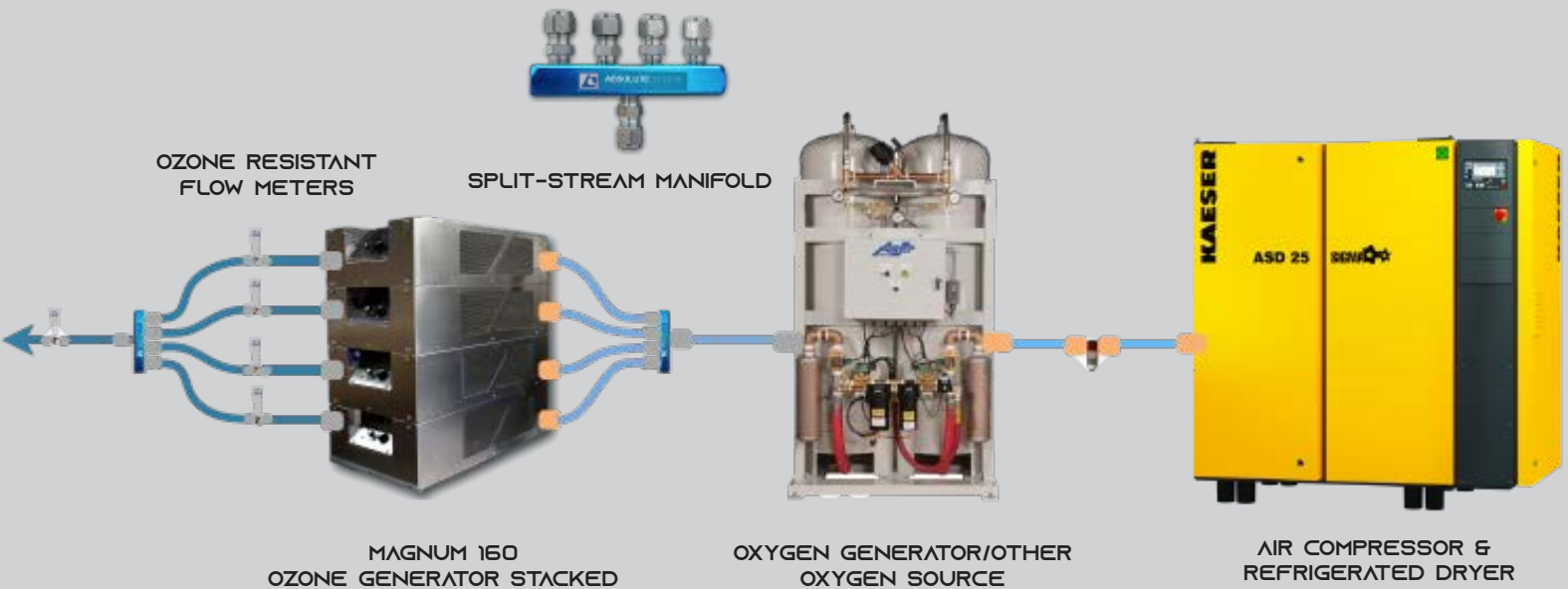
To see more details regarding calculations, please visit [www.Ozone-Generator.com](http://www.Ozone-Generator.com)

Oxygen Flow	Gas Press. (PSIG)	Power (%)	Ozone Conc. (g/Nm3)	Ozone Prod. (G/H)	Ozone Conc. (%w/w)
2	30	80%	173.2	18.6	11.7
35	40	100%	90.6	173.6	6.2

**COMPACT & MODULAR OZONE GENERATORS**

**DESIGN**

Absolute Ozone | Ozone Generators have modular design and come standard with special universal flanges and tabs that allow the user not only to mount the ozone generator in any position but to stack them and connect multiple ozone generators in stacks to achieve any ozone concentration required or in to expand the ozone system in the future if necessary to total ozone production up to 5kg/h or higher.



OZONE RESISTANT FLOW METERS

SPLIT-STREAM MANIFOLD

MAGNUM 160 OZONE GENERATOR STACKED

OXYGEN GENERATOR/OTHER OXYGEN SOURCE

AIR COMPRESSOR & REFRIGERATED DRYER

All parts and components used in Absolute Ozone | Ozone generators have been designed to work for 15-20 years and do not require any repairs or replacements, saving substantial amount of money over that period of time and offering the lowest TCO (Total Cost of Ownership) in the industry. Leak proof construction tested at up to 150 PSIG, corrosion resistant stainless steel or aluminum enclosure, highest quality components and materials used, further enhance reliability. Result: No downtime, No hidden costs.

## 5-YEAR WARRANTY - THE ONLY PERFORMANCE GUARANTEE IN THE INDUSTRY

5 Years Parts and Labour Warranty + The Only Performance Guarantee in the Industry\*. We are confident that Absolute Ozone generators will provide great performance and reliability for many years of service saving you money on repairs and downtime.

'Right on Spec Warranty' – "If in an unlikely event a product that we send you doesn't meet or exceed our published specifications, we'll send you one that does, or refund your money if we can't.

## HIGH PRESSURE OPTIONS AVAILABLE

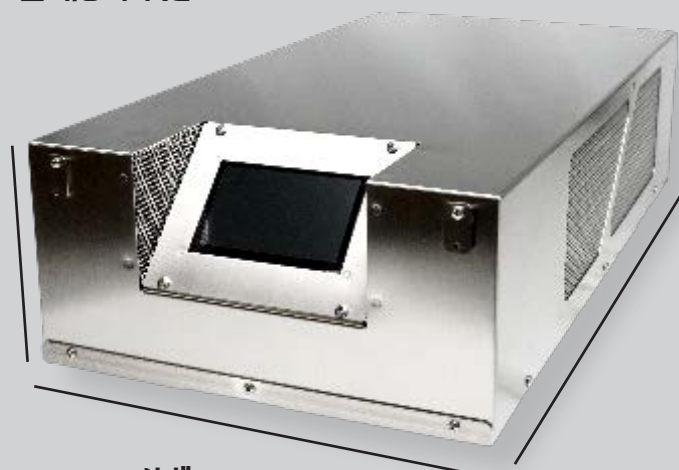
Absolute Ozone | Ozone generators can be tuned to work at higher pressure up to 80 PSIG (95 PSIA), that removes necessity of installing ozone pressure booster and it saves money on the booster and its service/maintenance. 30 - 80 PSIG pressure range is Ideal for soil remediation applications and other where high pressure ozone is required.

## ULTRA PERFORMANCE WITH LOW OXYGEN DEMAND

It is obvious that higher concentration of ozone in oxygen mixture produced by Absolute Ozone generators, means that much less oxygen is required for the same ozone production. I.e. Atlas 30 requires only 4 SLPM (Standard Litres Per Minute) to produce 30g/h of ozone (not 9-14 SLPM, common in the industry today). When operating Absolute Ozone Generators you may need to purchase only 1 Oxygen concentrator instead of 2 or even 4 required by competitor's Generators.

**WEIGHT: 70LBS  
24.04 KG**

**7"  
(17.78CM)**



**26.5"  
(67.31 CM)**

**14"  
(35.65CM)**

- 3M
- LEVI JEANS
- ABERCROMBIE & FITCH
- NASA
- GE
- OXFORD INSTRUMENTS
- HARVARD UNIVERISTY
- STANFORD UNIVERSITY
- WESTERN UNIVERSITY
- JOHNSON & JOHNSON
- US ARMY
- US NAVY
- USA GOVERNEMENT
- PEPSI
- COCA COLA
- BOEING
- UNIVERSITY OF SYDNEY
- HOWARD HUGHES MEDICAL INSTITUTE
- CANADIAN TIRE
- ENBRIDGE
- GOVERNMENT OF CANADA
- ALBERTA GOVERNMENT
- OAK RIDGE NATIONAL LABAROTORY
- LAM RESEARCH
- INNOVOTECH
- SQWINCHER
- CAITAC GROUP
- AGVENTURES
- OREGON STATE UNIVERSITY
- HALEY & ALDRICH
- VERTEX
- BERGEN FRUIT AND NUT COMPANY
- JPL (JET PROPULSION LABORATORY)
- ARCTIC CHILLER
- PARKER
- BASF - THE CHEMICAL COMPANY
- INDIANA INSTITUTE OF TECHNOLOGY
- ACKLANDS GRAINGER
- CORAL WORLD - OCEAN PARK
- WEM - WORLD WATER PARK
- GOLD'N PLUMP
- MACNEIL
- MANDALAY RESORT
- TRANSALTA GENERATION COMPANY
- BIOX
- SNC LAVALIN

## **GET IN TOUCH**

Absolute Ozone began operations in 1985 and since then has become an international leader in ozone generation technology and development, supplying ozone generators to over 100 countries worldwide. For the last 30 years, we have been focusing our efforts on making all projects of our clients successful and on providing the most reliable, economic, and effective ozone generators to them.

That is why we are offering a unique opportunity to all of our customers not only by providing verifiably the most advanced, effective, and economical Absolute Ozone generators to them but actually by ensuring that the equipment we provide will be effective and will make their project successful, as well as it will save them a lot of money over the time that the equipment will be working for them. Most importantly our technical assistance to our customers is complimentary, unlimited and is absolutely free of charge.

Our assistance to our clients for over the past two decades not only provided them with most reliable and effective working ozone systems, but provided tremendous saving on operating expenses to them, as Absolute Ozone generators do not require any service repairs or maintenance first 20 years of use, when installed and used correctly.

## CALL US TODAY AND LET'S DISCUSS YOUR UPCOMING OR CURRENT PROJECT

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