

Engineers at Guardian have designed the newest and most efficient ozone integrated systems on the market.

We utilize the latest precision oxygen supplied Plasma Block Technology and Pulse Density Modulating Generators.

Our design operates above 20,000 hertz performing at the highest efficiencies in the industry for a long and trouble free operation.



Guardian Manufacturing will help you transform your ideas and specifications into innovative concepts. Our team of engineers will determine the best solutions for your application and offer a design that is affordable, produced in a timely manner and provide many years of reliable operation. Our commitment to companies supporting ozone sanitization for aquatic life support, food processing equipment, wastewater treatment, commercial pools and cooling towers will continue to be as solid as the technology we are providing.



PLASMA BLOCK

Integrated Architecture

Pulse Density Modulating or (PDM) = Variable Ozone from 1% to 100% Continuous Linear output

Micro-Gap Technology

5 to 100 psi working cell pressure

Ozone Production From Cold Startup

No Glass Tubes

No Wet Air Problems

Easy Maintenance and Low Annual Cost

Huge Energy Savings

Heavy Industrial Design

Custom Programming Available

RMT – Remote Monitoring Technology

Integrated to Your Process Requirements

GMI Ozone Integrated Systems

Guardian Manufacturing has a long history of designing complex integrated systems for defense contractors, the space agency, Florida's theme parks and many industrial companies.

Our expertise in programming, software upgrades and control systems have taken us into the realm of equipment design for ozone generators and related process.

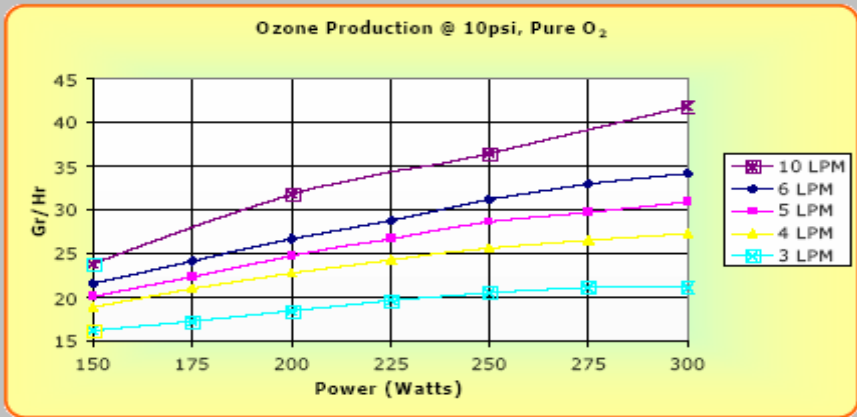
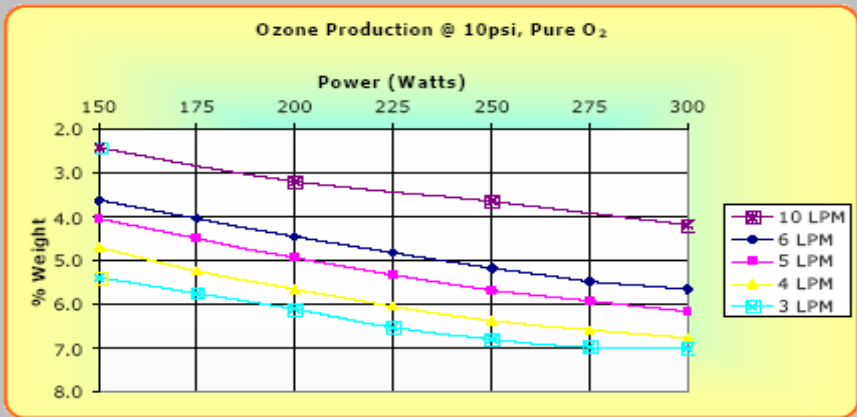
Custom ozone integrated systems for cold storage fruits and vegetables and personal health care products have been a major success.

Customers have the confidence in our capabilities to design and build reliable state of the art ozone machines matched with our proprietary system integration features for a long and trouble free operation.



Guardian Manufacturing Dual Air Cooled Plasma Block Generators
Our technology is always ready to perform at peak efficiencies from a cold start. We are changing everything you knew about ozone generating equipment operation and maintenance.

- GMI Oxygen System
- Integrated PLC or Smart Relay
- 100:1 Turndown
- Multiple Generator Option
- 1 to 40 lbs/day Ozone
- ORP & DOM Sensor I/O 0 to 20mA
- 23K Hertz @ 3200 volts
- Only 250watts Per Generator Air Cooled ~ 36 grams/hr
- UL508A NEMA 12
- NEMA4 or 4X SS Option
- Factory Support & Service



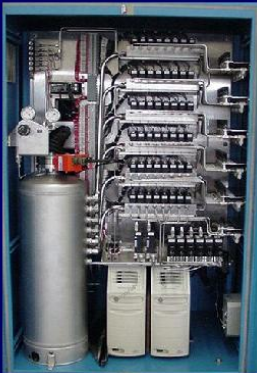
Charts for 1 Air Cooled Generator O₃ Output
Water Cooled Generator O₃ Output > double @ 600w & 15 PSI



Operating Conditions: + 100° F @ 99% Humidity: 120/240 volt single phase, 2 lbs/day air cooled @ 500 watts/120volts including oxygen supply system. Ambient conditions will affect ozone output.



Lighting Panels



Hazardous Gas Monitor



Vacuum Oven Control



Total Process Control

SCADA Development

From PC based platforms such as Wonderware™ or Rockwell Software's RSVIEW™ to smaller Allen Bradley Panel View 550s. GMI has your solution. Our engineering staff can build to your specific requirements or assist you in selecting a SCADA platform that meets your exact needs.

Software Development

GMI offers a variety of software development services. Our programmers are fluent in ladder logic, MS.NET, C++, Labview and many more. We utilize the latest Windows based software development tools in creating specific control methodologies for your specific needs.

Power Distribution

Guardian handles the entire arena of industrial control. Although the PLC and control components are a vital part of any control system, power distribution is also vitally important to the success of the project. GMI certified electricians ensure all projects are installed and comply with National Electric Code (NEC) and your specific local codes. GMI has successfully installed systems as large as 1.25 megawatts of power.



UL Certifications

UL508A Industrial Controls Panel

UL1008 Transfer Switch Panels

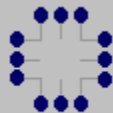
UL924 Emergency Lighting Panels

UL1419 Audio and Video Panels

UL1492 Custom Audio and Video Products

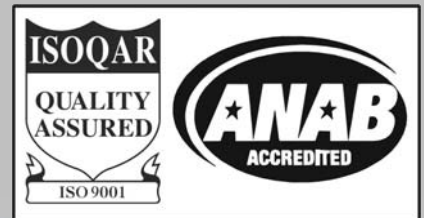
UL1449 Transient Voltage Surge Suppressors

UL1283 Electromagnetic Interference Filters



GUARDIAN

Manufacturing



Guardian Manufacturing Inc
2971-A Oxbow Circle
Cocoa, FL 32926
(321) 631-4580
(321) 631-4517 fax
info@guardianmfg.com
www.guardianmfg.com

