



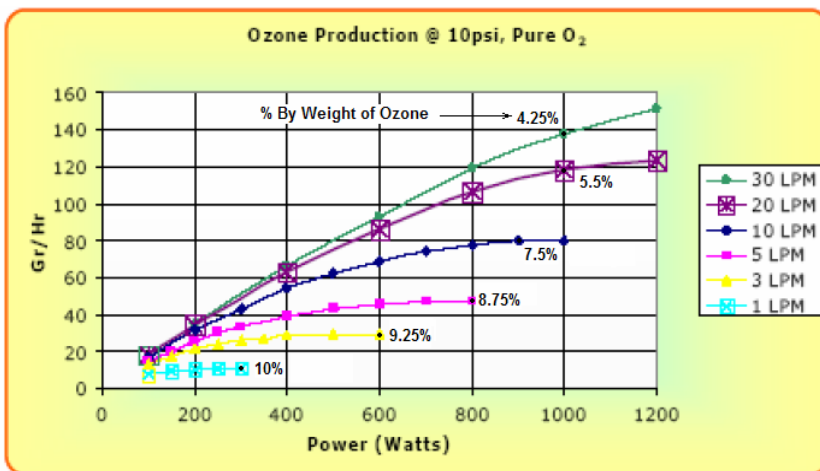
## PB120 & PB240 grams/hr

Plasma Block™ Corona Discharge Air & Water Cooled  
 Guardian manufactures standard and custom configurations in numerous ozone markets. Our engineering team is ready to provide the best solution for your application requirements.



Specifications	PB120D2	PB240Q2	PB240CL2
System Control	Manual or PLC	Manual or PLC	PLC
Number of Generators	Two	Two	Two or More
Ozone Output g/hr*	120 g/hr (6.3 lbs/day)	240 g/hr (12 lbs/day)	240 g/hr (12.6 lbs/day)
Power Requirements	120V, 30A	240V, 40A or 480V, 20A	240V, 40A or 480V, 20A
Oxygen Feed Gas	8 LPM to 24 LPM	18 LPM to 50 LPM	18 LPM to 50 LPM
UL Enclosure	NEMA 12 Powder Coat	NEMA 12 Powder Coat	NEMA 12 Powder Coat
Cooling Water Requirements	None-Air Cooled	None-Air Cooled	2 gpm ~ 65° F
Pressure Range	5 to 100 psi	5 to 100 psi	5 to 100 psi
Dimensions	36"h x 39"w x 15"d	48"h x 36"w x 16"d	84"h x 46"w x 29"d
Weight	230 lbs	325 lbs	500 lbs
OPTIONS	PB120D2	PB240Q2	PB240CL2
Oxygen Feed Gas System	Optional	Optional	Included
Display Config Screen	Optional	Optional	Included
Ambient Ozone Sensor	Optional	Optional	Included
Remote Monitoring RMT	Optional	Optional	Included
ORP/DOM Sensor/Display	Optional	Optional	Included
Sensor Signal Control	Included	Included	Included
Backflow Device	Optional	Optional	Included
Pump Contacts	Optional	Optional	Included (1 to 3)
Variable O <sub>3</sub> 1% to 100%	Included	Included	Included
NEMA4X Wash Down	Optional	Optional	Optional
Integrated Custom Controls	Optional	Optional	Optional

Operating Conditions 32 to 102 Degrees F



\*Ozone production will vary depending on oxygen feed gas flow rates.

Curve Based on Style "Q" Cooled Cell

Plasma Block™ configurations for water and dual air cooled cells are available for all Custom PLC models.

Optional Water Cooled Cells Available

Guardian has smaller enclosures for air cooled cells 20 g/hr to 60 g/hr.

Custom Enclosures and Software

Guardian Manufacturing Inc.

2971-A Oxbow Circle

Cocoa, FL 32926

[www.guardianmfg.com](http://www.guardianmfg.com)

321-631-4580 ext. 304

321-631-4517 fax



Ethernet or Internet monitoring is available on all PLC models.



**GUARDIAN**  
Manufacturing



**PB Models to 240 grams/hr**

**Plasma Block™ Corona Discharge Generators**

**PB240Q2 Dual Air Cooling Plasma Block™ 12 lbs/day**

Guardian is committed to the highest quality in all of our products. Guardian is a registered ISO-9001:2000 company. We are listed to build UL-508A. Plasma Block technology™ is becoming the most sought after ozone generating protocol. We can design to your specifications or supply one of our off-the-shelf systems. Guardian is supporting OEM ozone companies in several markets.

**Guardian-----"We are changing everything"**

**PB120CD2 Dual Air Cooling Plasma Block™ PLC, ORP, DOM**

**Plasma Block™ Technology Advantage**

- Integrated Guardian Engineering
- Ultra High 23K Hertz for Silent Operation
- Air Cooling for up to 12 lbs/day
- High Voltage is Safely Contained
- Efficient Air Cooled Reaction Chambers
- No Glass Tube Dielectrics to Break or Fail
- Auto feed-gas startup and shutdown
- PLC Integrated Control Option w/full Alarm History
- PDM or Pulse Density Modulating 100 :1 turn down
- PID Linear Precise Control
- Operating Pressure Range 6 to 100 psi
- Factory Support and Service
- Leak Free Swagelok® Stainless Steel Tubing
- Two year Limited Warranty
- Heavy Industrial Bullet Proof Design



**PB200CL2 Water Cooled Plasma Block™/PLC, ORP, DOM**

**Micro Channel™ Aluminum/Ceramic Cell**

No stainless steel; Therefore, no ferric chromate contamination  
Micro Channel™ Technology for precise ozone control

**No Exposed High Voltage**

High voltage is safely contained in the plasma block chamber. Other designs have high voltage exposed which can cause dangerous flash over and fire. This is not possible with the Plasma Block™.

**Maintenance**

The Plasma Block™ cells are maintenance free. Cells can last for 10 years. Required maintenance is only performed on the oxygen feed gas system. Cell replacement only required 15 minutes with no special training or tools.

**Oxygen Feed Gas**

All Plasma Block™ cells require the use of oxygen feed gas and are designed to the full efficiencies utilized by 90% to 95% oxygen

**Guardian Manufacturing Inc**

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(800) 632-3071

