



PB120 & PB240 grams/hr

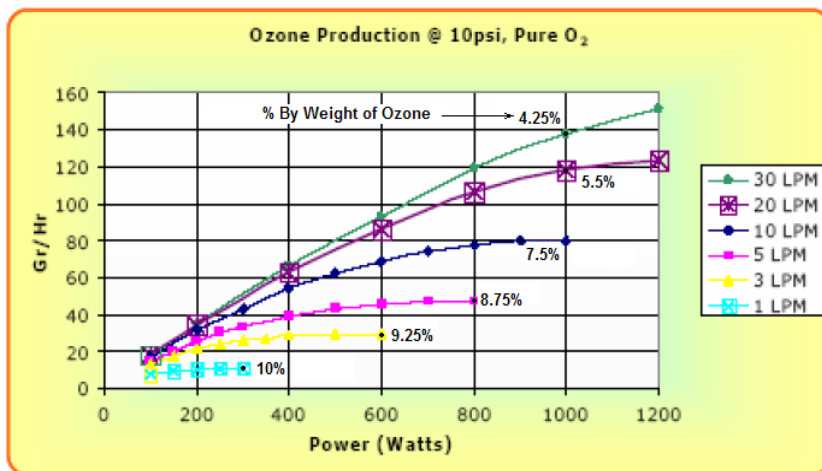
Plasma Block® Corona Discharge Air & Water Cooled



Guardian manufactures standard and custom configurations in numerous ozone markets. Our engineering team is ready to provide the best solution. Smaller systems to 10 grams/hr

Specifications	PB120D2 or PB120Q1	PB240Q2	PB240CL2
System Control	Guardian Smart Relay	Guardian Smart Relay	PLC
Number of Generators	One-Two UL Classified	One-Two UL Classified	UL Classified
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	120/240V 15-20A	240V, 20A	240V, 20A
Oxygen Feed Gas	5 LPM to 24 LPM	10 LPM to 50 LPM	10 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 or PB120Q1	PB240Q2	PB240CL2
Programmable Logic Control	N/A	N/A	Included
Oxygen Feed Gas Protection	Flow, Concentration and Pressure Monitoring		
Multiple Zone Output	2 to 6	2 to 6	N/A
UL508	Yes	Yes	Yes
Sensor Display	Rosemount, ATI	Rosemount, ATI	Automation Direct
Sensor Signal Control	0 to 10 volt, 0 to 20 mA	0 to 10 volt, 0 to 20 mA	0 to 10 volt, 0 to 20 mA
Backflow Device	Optional External	Optional External	Optional External
Vacuum Auto Shutdown	Yes	Yes	Yes
Rheostat Control	Yes Door Mount or Inside	Yes Door Mount or Inside	N/A
NEMA4X Wash Down	Yes	Yes	Yes
Integrated Custom Systems	Ozone Injection Contact Skid, Pump Starter, Ambient Ozone Monitoring		

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 air cooled cells are available for all Custom PLC models.

Optional Water Cooled Cells Available

Guardian has smaller enclosures for air cooled cells 10 g/hr to 60 g/hr.

Custom Enclosures and Software

Guardian Manufacturing Inc.

2971-A Oxbow Circle

Cocoa, FL 32926

www.guardianmfg.com

321-631-4580 ext. 304

321-631-4517 fax



Ethernet or Internet monitoring is available on all PLC models.

REMOTE MONITORING TECHNOLOGY



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
- Onboard Oxygen Monitoring Protection
- 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
- Swagelok® Stainless Steel & Orbital Welded Tubing
- UL Classified Generator
- 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 requires 15 minutes with limited training and no special 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

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