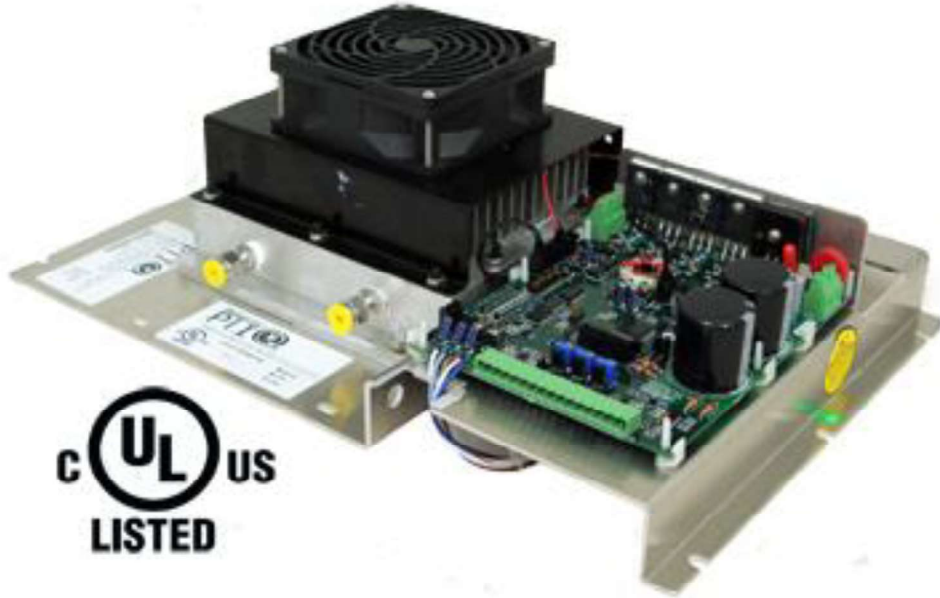




30g @ 5%

Plasma Blo<sub>3</sub>ck<sup>®</sup> (Air-Cooled)

OEM



For added application information, see the **Plasma Block<sup>®</sup> Application Guide** manual.

### Models:

Refer to – Configuration Options Summary Sheet at the end of the catalog.

**Silent, Rugged, Reliable**, Cost-effective, **Compact** and Light Weight, Ceramic, **Air-cooled** and power-Efficient.  
1.1 lbs/day at 6.7% and 3 LPM : 1.9 lbs/day at 3.5% weight and 10 LPM (Oxygen or Concentrator)

**No exposed, high-voltage safety hazards.**

Precise ozone control using **Pulse Density Modulation (PDM)** via potentiometer, 4/20ma or 0-10vdc.

Precise Control with **Turn-down to 1%**.

Available with **PlasmaVIEW<sup>®</sup>** software (optional).

### Design Features:

- **All high voltage is safely contained completely within the Plasma Blo<sub>3</sub>ck<sup>®</sup>**, thereby eliminating shock hazards and dirt buildup which can cause dangerous flashover. High-voltage wiring is booted, and **all metal grounded**.
- Advanced design eliminates the possibility of ozone leakage from the body or fittings. The only ozone leak possible is at the customer tightened ozone fitting. All non-metal materials are ozone rated.
- Military grade conformal coating eliminates problems associated with condensation and mold and greatly retarding damage caused by accidental ozone exposure.
- Directly installable by UL 508a panel house.
- **Micro Channel<sup>®</sup>** design results in high concentration, reduced high-voltage levels, and more efficient operation. **Requires concentrator or bottle feed of at least -60°F dew point, filtered, positive-pressure oxygen.** Materials in the gap are **ceramic and aluminum**.

- Ideal for ‘over-the-road’ applications. **Instant-ON ozone** production -- no warm-up time.
- Precision-machined aluminum block eliminates inefficient hot spots and facilitates operation at **high pressures**, as well as **vacuum ride through**. Only 1 psi drop with 10 LPM flow. As with any cell, the most predictable performance occurs in the positive pressure domain. Maximum pressure 100 psi. 2.7 safety factor at 150 psi.
- Ozone level automatically controlled to  $\pm 1\%$  from 85 to 130vac, or 170v to 260vac, depending on the model.
- Pre-mounted, seasoned and tested package sub-system includes cell, transformer, inverter and fan. Design uses the finest quality materials and machining for maximum performance and efficiency.
- The Inverter is a reduced-power version of PTI’s popular SSD110. All control and interface features of the SSD110 are available in this product.
- **23 kHz** operating frequency for **silent** operation. Line voltage 120v or 240v, 50/60hz.
- **Inlet 1/4", Outlet 1/4"**; both **Stainless Compression** Fittings are standard; 3/8" or 1/4" NPT on request.
- Pre-seasoned, calibrated and **pre-adjusted to customers’ individual performance needs**. **Ready to install**.
- Rigorous 100% performance, as well as burn-in tests of all electricals, are conducted to ensure the highest level of product **quality, reliability and consistency**.

### Configuration options :

PTI will set up and tune units to the customers' desired specifications.

Oxygen pressure - (5 - 86 psi) [UL 5x rated]

Oxygen flow liters/minute - (.1 - 20 Lpm) or equivalent SCFH

Heat load btu/hr = 860

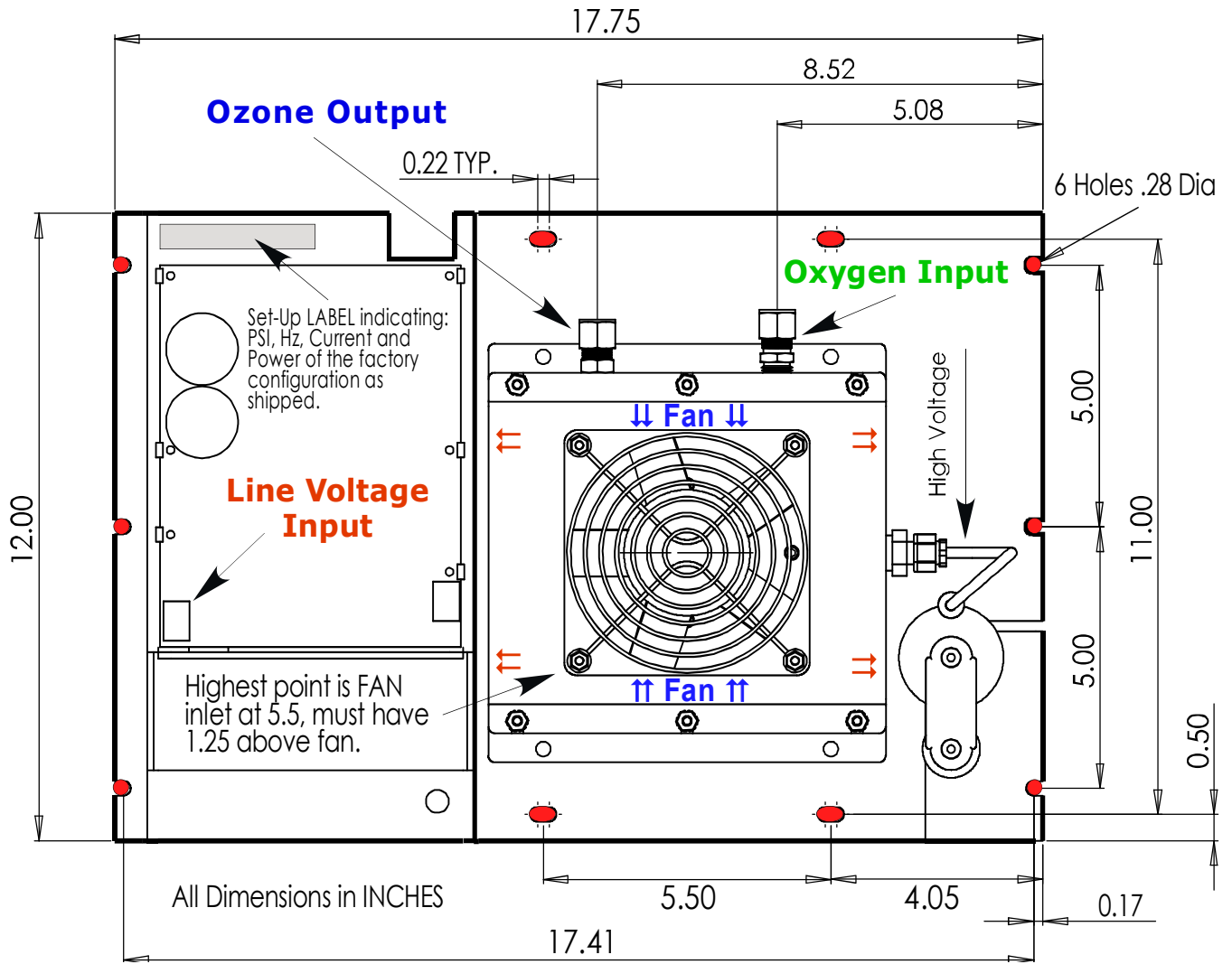
Inlet fittings (none, 1/4", 3/8", 8mm, 10mm, other)

Outlet fittings (none, 1/4", 3/8", 8mm, 10mm, other)

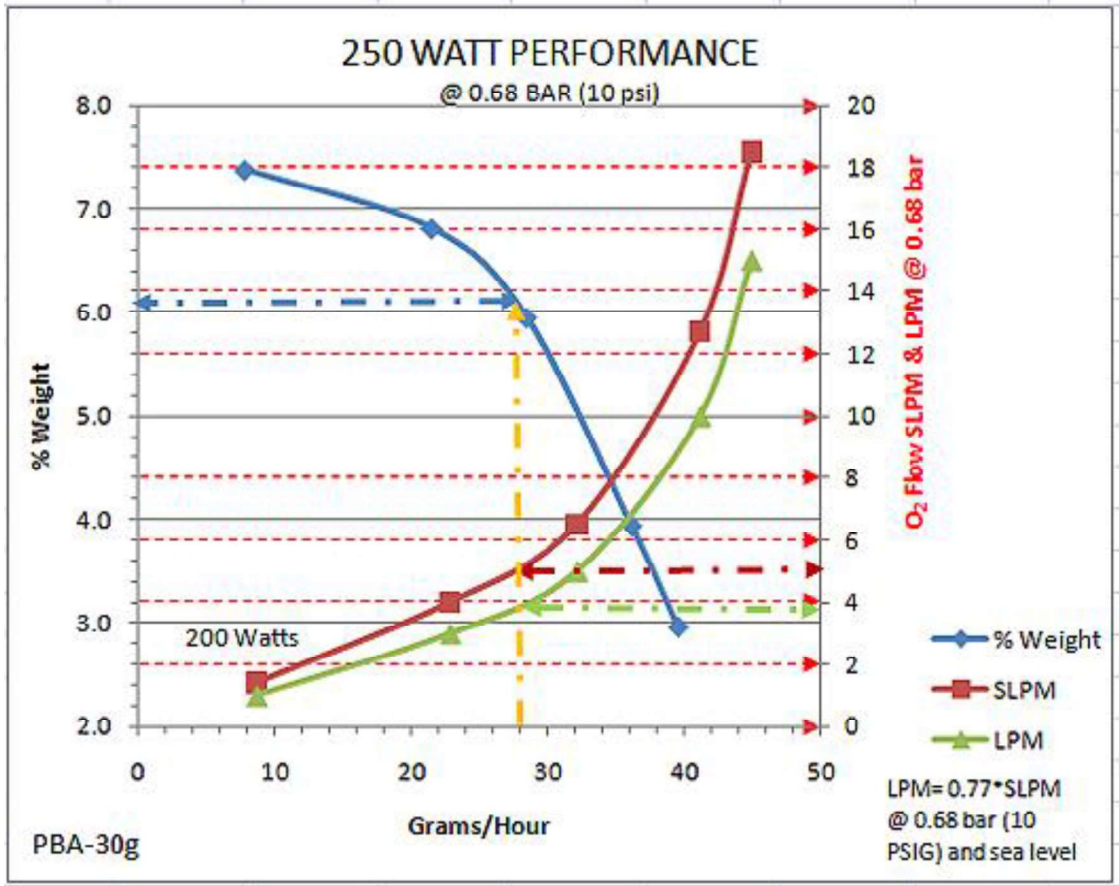
**Weight Lbs (Kg) : 16.5 (7.49)**

**Installation Drawing:      Inches**



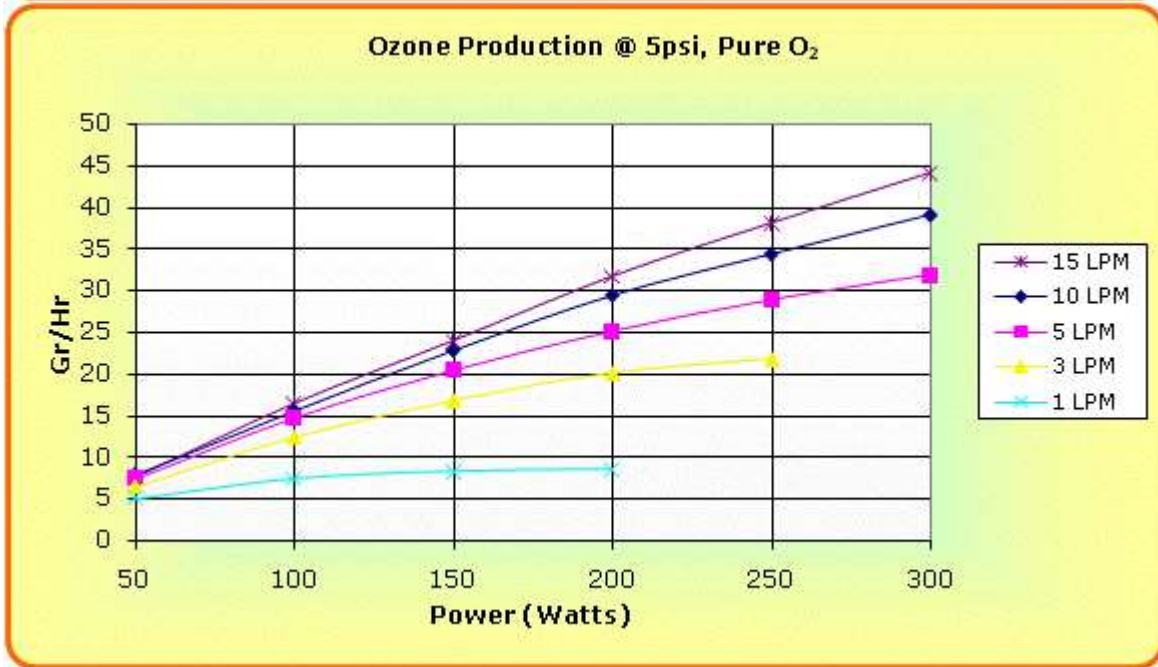
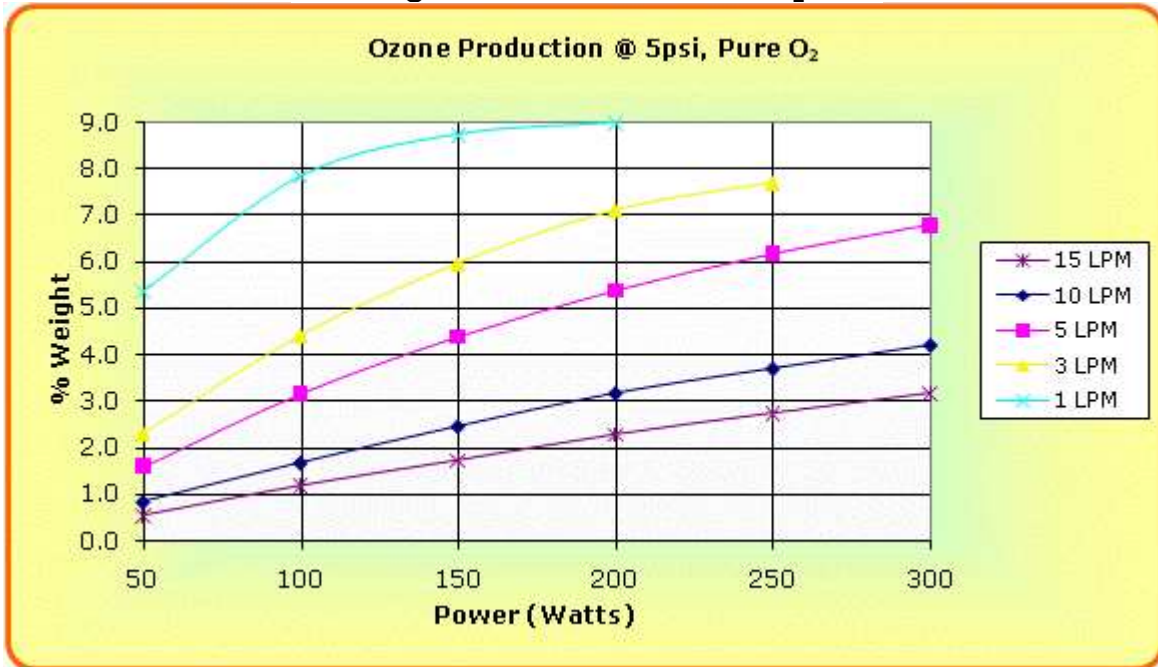


**Output Performance:**



**Output Performance: 5 psi**

**% Weight vs Power Consumption**



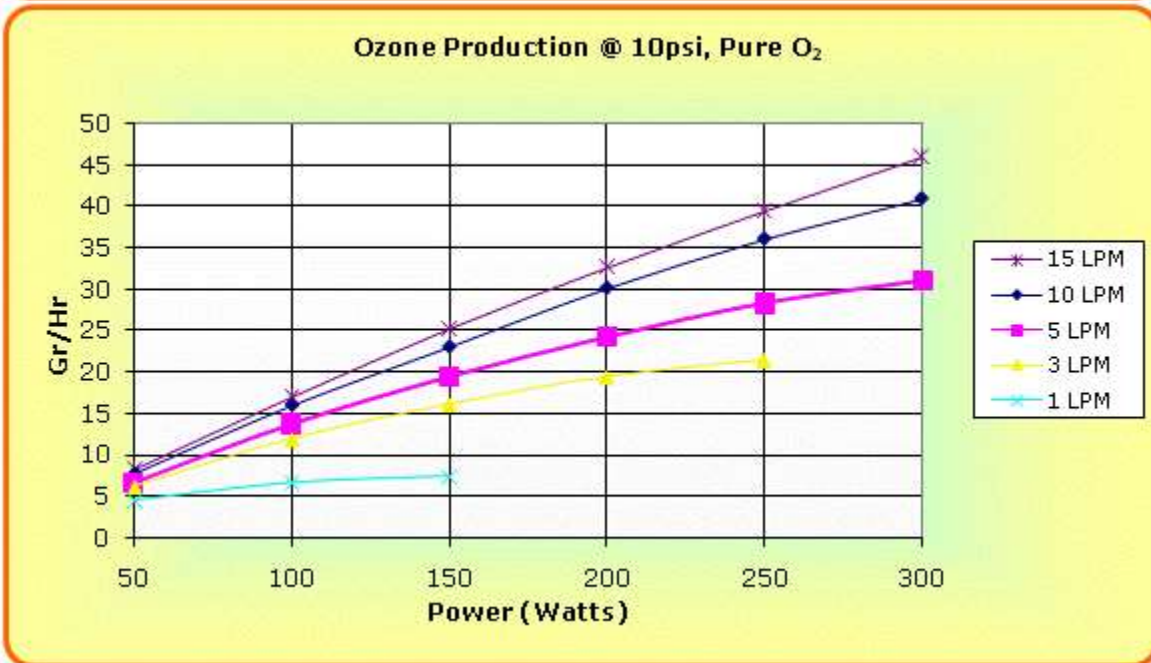
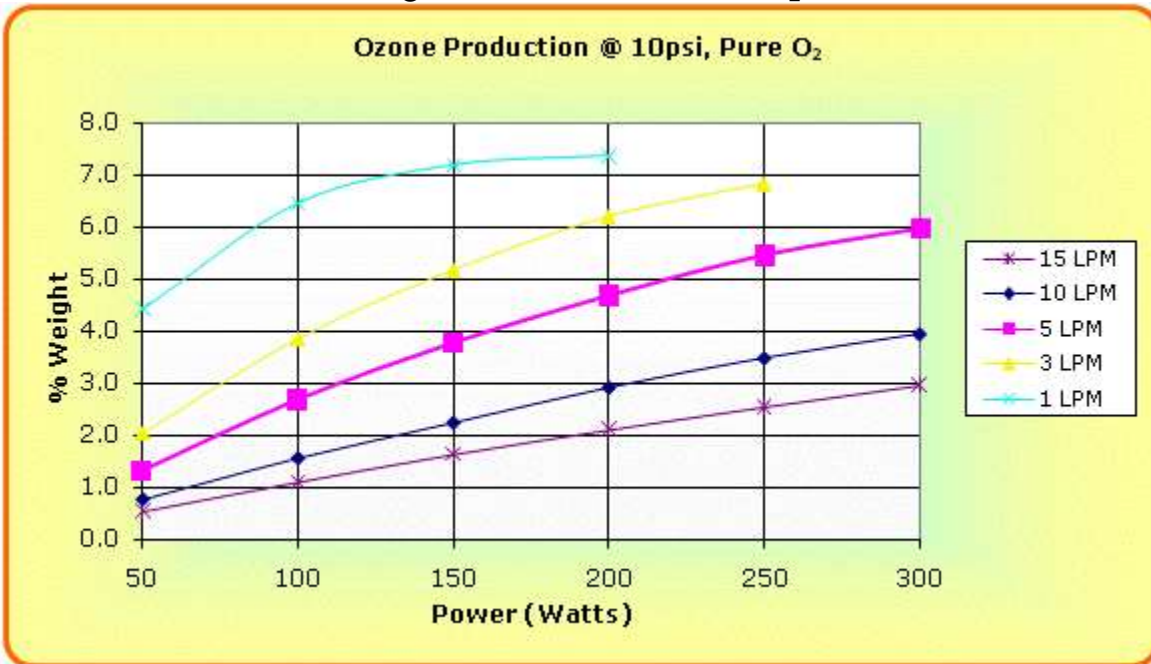
**Grams / Hour vs Power Consumption**

**Normal factory POWER setpoint: 250 watts at FULL PDM ( 10vdc or 20ma )**

Published production-ozone output level (30gr/hr) based on 5% concentration.  
 Tests conducted at 72°F, 700 MSL. All pressure readings in psig. Ozone in g/nm<sup>3</sup>.  
 Flow measured in LPM via uncorrected Rotameter at inlet port. Ozone at 0 psi from side-stream.

**Output Performance: 10 psi**

**% Weight vs Power Consumption**



**Grams / Hour vs Power Consumption**

**Normal factory POWER setpoint: 250 watts at FULL PDM ( 10vdc or 20ma )**

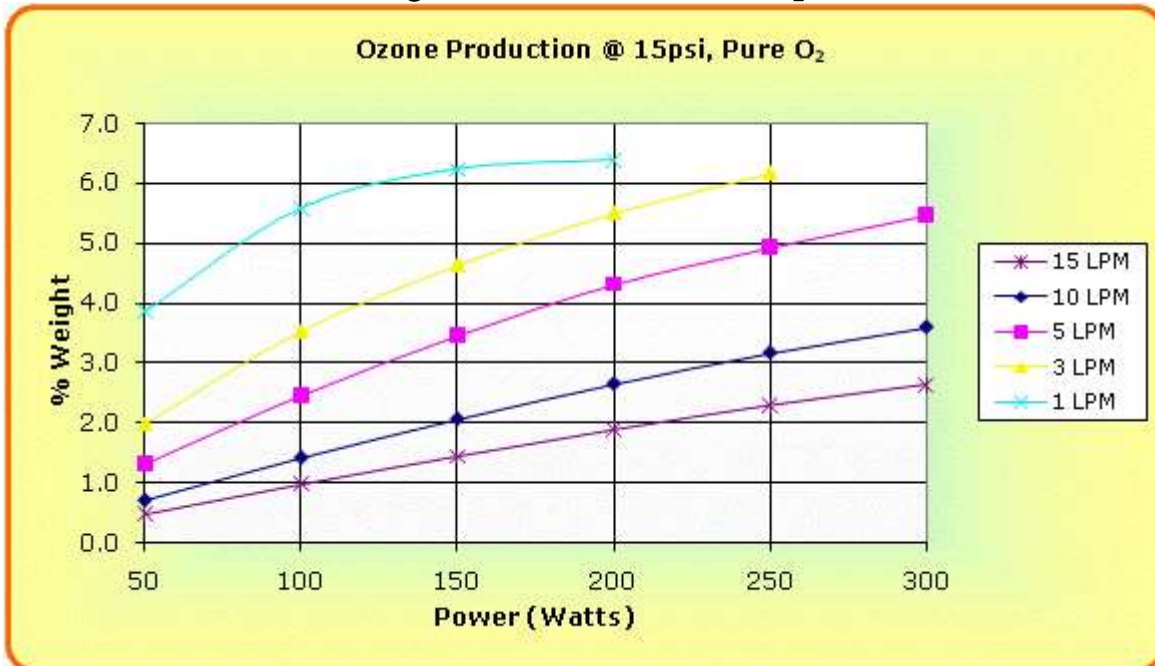
Published production-ozone output level (30gr/hr) based on 5% concentration.

Tests conducted at 72°F, 700 MSL. All pressure readings in psig. Ozone in g/nm<sup>3</sup>.

Flow measured in LPM via uncorrected Rotameter at inlet port. Ozone at 0 psi from sidestream..

**Output Performance: 15 psi**

**% Weight vs Power Consumption**



**Grams / Hour vs Power Consumption**

**Normal factory POWER sepoint: 250 watts at FULL PDM ( 10vdc or 20ma )**

Published production-ozone output level (30gr/hr) based on 5% concentration.

Tests conducted at 72°F, 700 MSL. All pressure readings in psig. Ozone in g/nm<sup>3</sup>.

Flow measured in LPM via uncorrected Rotameter at inlet port. Ozone at 0 psi from sidestream..



## Output Performance: 20 psi

### % Weight vs Power Consumption

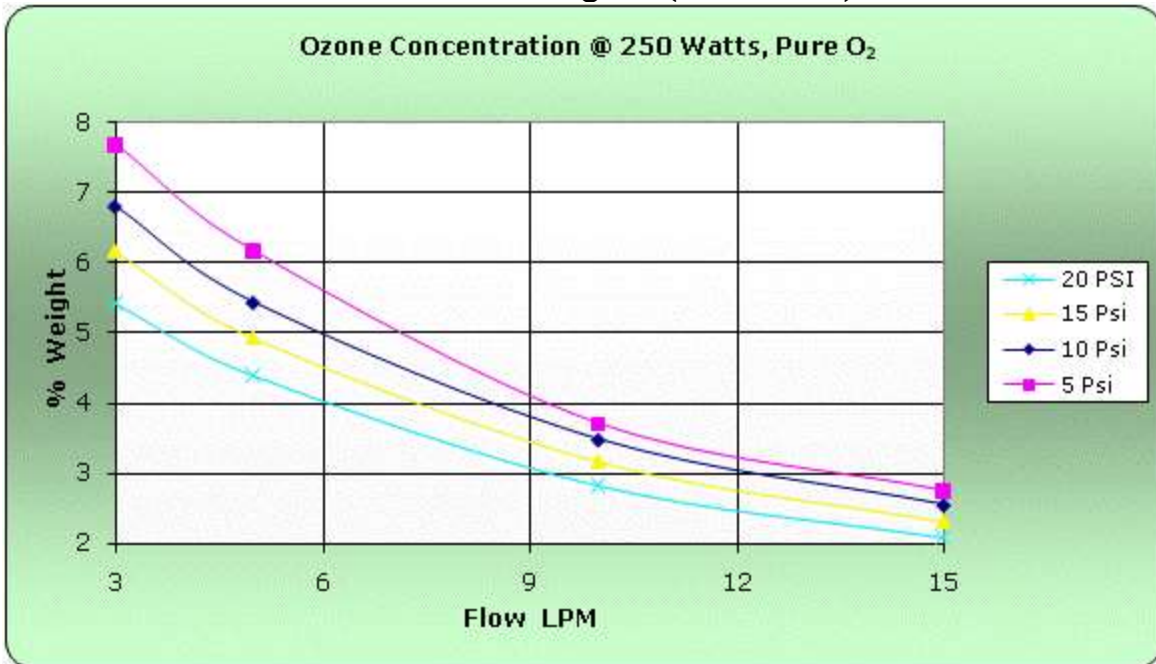


### Grams / Hour vs Power Consumption

**Normal factory POWER setpoint: 250 watts at FULL PDM ( 10vdc or 20ma )**

Published production-ozone output level (30gr/hr) based on 5% concentration.  
Tests conducted at 72°F, 700 MSL. All pressure readings in psig. Ozone in g/nm<sup>3</sup>.  
Flow measured in LPM via uncorrected Rotameter at inlet port. Ozone at 0 psi from sidestream..

### Flow vs % Weight (250 Watts)



### PDM Control Voltage vs Input Power ( Watts)

