



# OXG-40

## SPEC SHEET

# OXG TECHNOLOGY

The OXG Series are built with an Ozone Generation Cell and Oxygen Concentrator in one system. The OXG-40 can produce ozone at 40 g/hr from 10 LPM. These Ozone Generators are compact, efficient, and easy to use with a wide variety of options and features. Simply plug into electrical power and produce both oxygen and ozone from one unit.

## Main Features

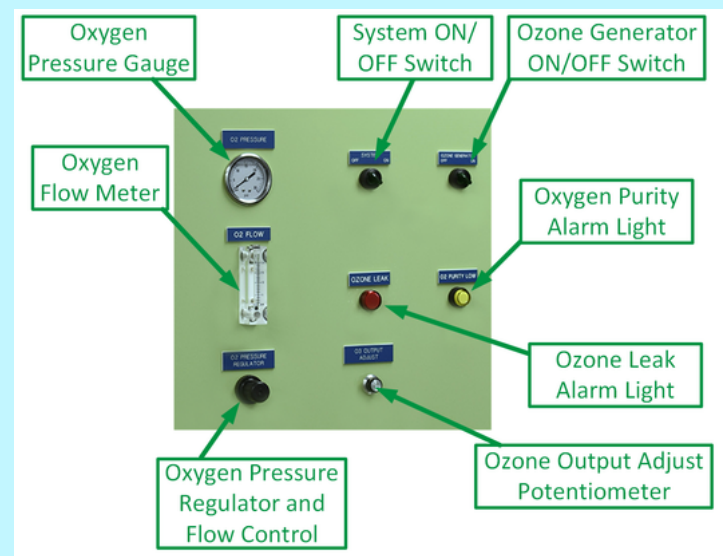
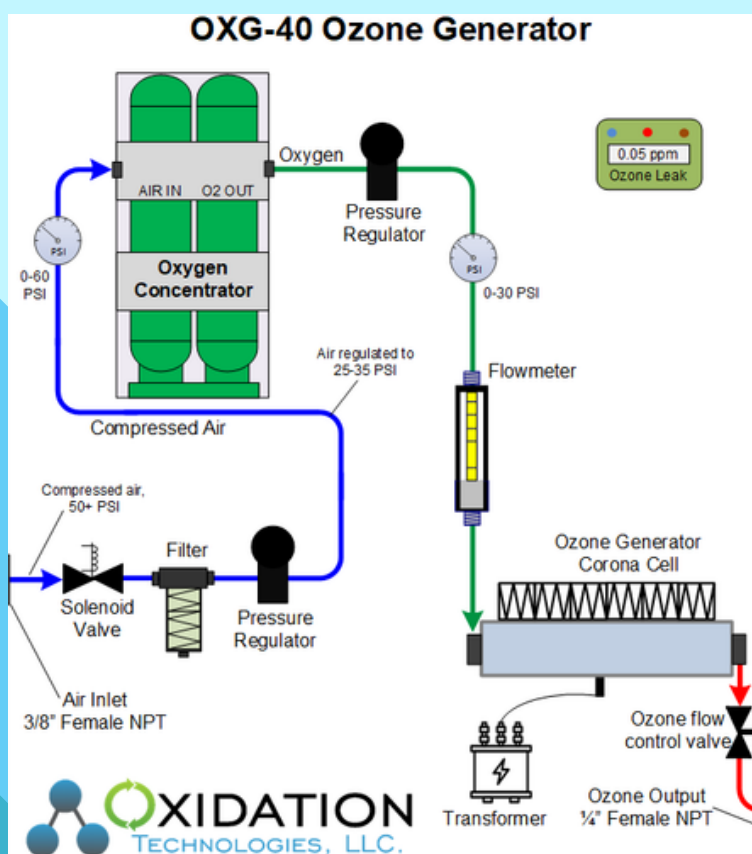
- Turnkey system, requires only electrical power for operation
- Integrated Ozone Leak sensor for safety
- Integrated Oxygen purity meter
- 3-stage air filtration prior to O<sub>2</sub> concentrator
- Automated control and operation
- Can integrate directly with a Dissolved ozone meter or other controller

## Controls

- Adjustable ozone output via manual dial, 4-20 mA input, or 0-10 VDC input
- Dry contacts to start system
- Dry contacts to start O<sub>3</sub> Gen separately
- O<sub>3</sub> leak alarm feedback – dry contacts open
- System ON feedback – dry contacts close
- O<sub>3</sub> Gen ON feedback – dry contacts close

## SYSTEM DIAGRAM

### Standard OXG-40 Diagram



## CONTACT INFORMATION

If you need help with your ozone oxidation application, or have questions, please contact our team today.

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# OXG-40 PERFORMANCE

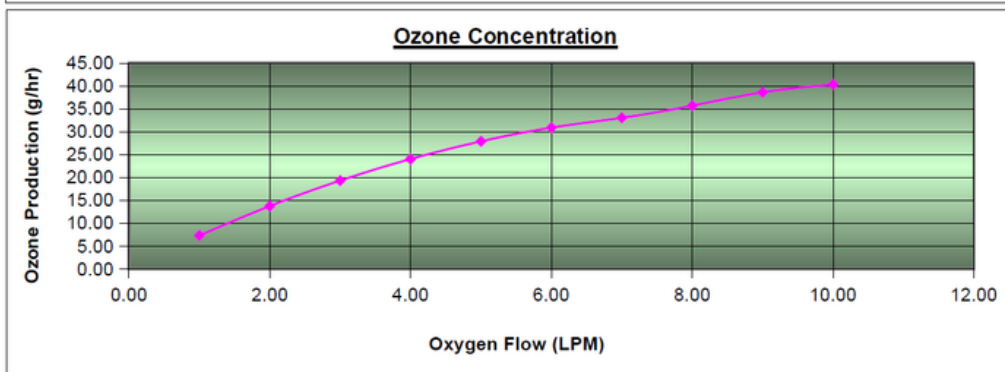
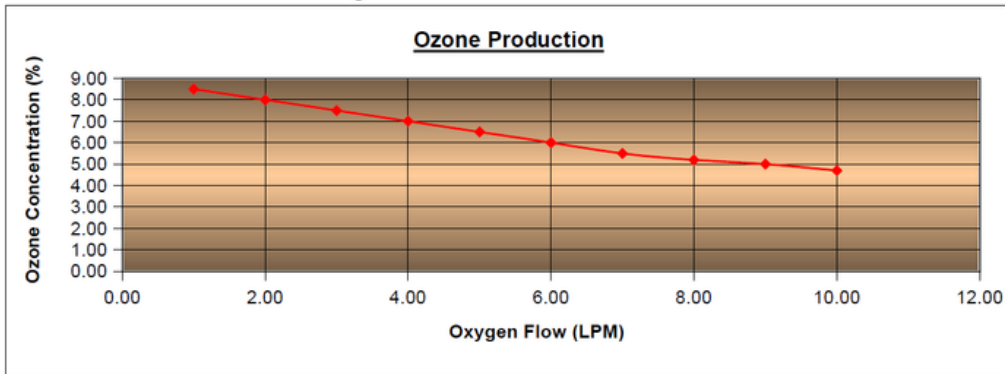
## OZONE GENERATOR PERFORMANCE TEST

Model: OXG-40

Feed Gas : Oxygen

Rated Ozone Production = 40 g/hr @ 10.0 LPM

Max Ozone Concentration = 8.5% @ 1.0 LPM



| Air FLOW (SLPM) 90-92% O <sub>2</sub> | Oxygen Pressure (PSIG) | OZONE CONC. (g/Nm <sup>3</sup> ) | OZONE CONC. (%W-W) | OZONE PRODUCTION (g/h) | COMMENT |
|---------------------------------------|------------------------|----------------------------------|--------------------|------------------------|---------|
| 1.00                                  | 20.00                  | 121.55                           | 8.50               | 7.29                   |         |
| 2.00                                  | 20.00                  | 114.40                           | 8.00               | 13.73                  |         |
| 3.00                                  | 20.00                  | 107.25                           | 7.50               | 19.31                  |         |
| 4.00                                  | 20.00                  | 100.10                           | 7.00               | 24.02                  |         |
| 5.00                                  | 20.00                  | 92.95                            | 6.50               | 27.89                  |         |
| 6.00                                  | 20.00                  | 85.80                            | 6.00               | 30.89                  |         |
| 7.00                                  | 20.00                  | 78.65                            | 5.50               | 33.03                  |         |
| 8.00                                  | 20.00                  | 74.36                            | 5.20               | 35.69                  |         |
| 9.00                                  | 20.00                  | 71.50                            | 5.00               | 38.61                  |         |
| 10.00                                 | 20.00                  | 67.21                            | 4.70               | 40.33                  |         |

Ozone Analyzer BMT 963 O<sub>2</sub> Flow Meter Aalborg 171, Accuracy +/-5%

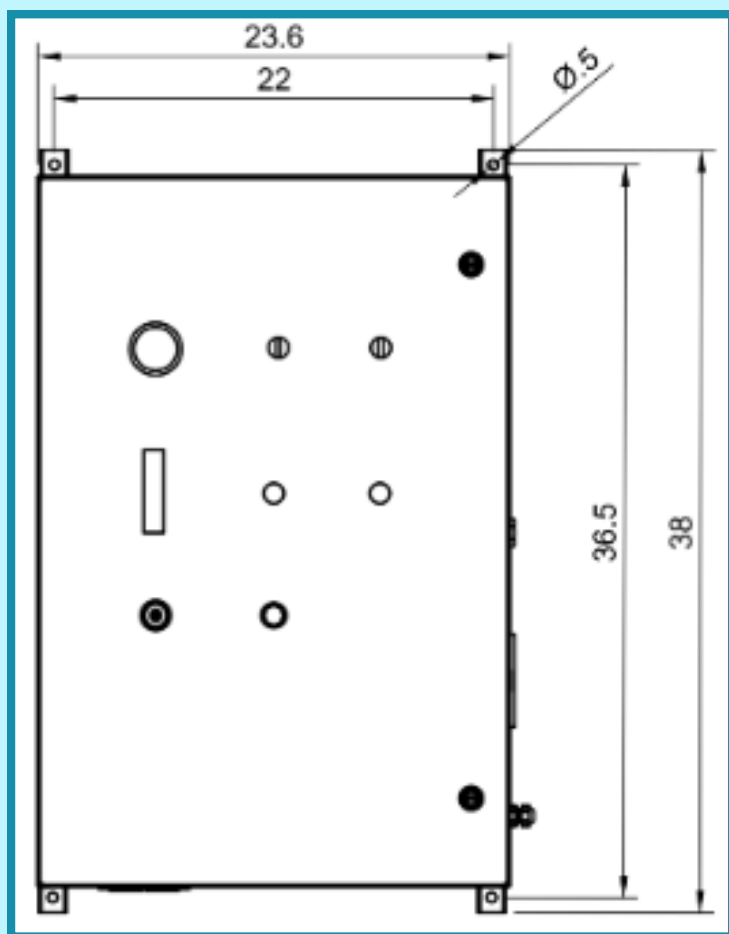


## CUSTOMIZABLE OPTIONS

**External Compressed Air** – If plant air is available, or in very humid/poor air quality environments the internal air compressor can be removed at a cost savings. The compressor will be replaced with an air solenoid valve, pressure regulator, and 2-stage air filtration.

**Stainless Steel Enclosure** – Upgrade the enclosure to be stainless steel

## CAD DRAWINGS



## PRODUCT SPECIFICATIONS

|                       |                                |
|-----------------------|--------------------------------|
| Feed Gas              | Built-in O2 Concentrator       |
| Nominal Gas Flow Rate | 10 LPM O2                      |
| Operating Pressure    | 5 PSI                          |
| Max Pressure          | 20 PSI                         |
| Cooling Method        | Air Cooled                     |
| Corona Cell           | Quartz, Stainless Steel        |
| Gas Connections       | 3/8" NPT Fitting               |
| Dimensions            | 12" x 24" x 36"                |
| Temperature Range     | 35-95 deg F                    |
| Max O3 %              | 3% - 5%                        |
| Power                 | 120 VAC, 60 Hz, 1-phase, 10amp |
| Ozone Output          | 40 g/hr                        |

