

## Spartan Environmental Technologies

Spartan supplies ozone generators, ozone water treatment systems and ozone based advanced oxidation processes for a wide variety of applications and industries. We supply packaged skid mounted systems, containerized solutions and systems custom engineered for specific client requirements.

### **SPARTOX G Series Ozone Generators**



All **SPARTOX G** series ozone generators come integrated in an enclosure (powder coated mild steel or stainless steel) with manual feed gas controls. Ozone gas concentrations of 1-12% are achievable depending on which plasma block is selected. The units can be either fan cooled, or an enclosure air conditioner can be added if the local environment is too warm for maximum generator performance.

The **SPARTOX G** can be fitted with various controls, PLC and instruments based the applications requirements. Instruments include the following options:

- Ambient ozone safety monitors with automatic shut down of the generator in case of a ozone leak
- High concentration ozone monitors to follow ozone generator output
- Dissolved ozone and ORP monitor controllers that can feedback to the generator to maintain Ozone of ORP levels
- Output of 10-140 g/h of ozone available
- Microprocessor controlled plasm block means intelligent control of generator parameters for safer and more reliable operation
- Concentrations from 1-12 wt.% (Gen1 Units 5-6 wt.%, Gen2 Units 6-12 wt.% concentrations)
- Generators have a 20:1 turndown ratio controlled by varying gas flow and power setting
- Plasma View Software and associated cables allows for troubleshooting using windos based PC.
- Power control via potentiometer or 4-20 mA control signal, field selectable
- Mass flow meters and controller to measure and control feed gas flow to the generator.
- Laboratory systems can be fitted with dataloggers to capture important information on experiments
- Packaged or standard oxygen concentrators can be added to any SPARTOX G ozone generator to supply feed gas to the unit

The **SPARTOX G** is built to NEC and ANSI codes and UL rated (CSA and CE ratings are available options). Spartan can integrate the **SPARTOX G** into a complete fully integrated ozone water treatment or advanced oxidation water treatment systems (SPARTOX A, MX and M series systems)

<i>PTI</i>		<i>Gen1</i>			<i>Gen2</i>	
<i>SPARTOX</i>	<i>Output (g/h)</i>	<i>Wt.%</i>	<i>Gas Flow (SLPM)</i>	<i>Output (g/h)</i>	<i>Wt.%</i>	<i>Gas Flow (SLPM)</i>
<b>10 G</b>				<b>10</b>	<b>9</b>	<b>1.4</b>
<b>20 G</b>	<b>20</b>	<b>6.0</b>	<b>4</b>	<b>20</b>	<b>9</b>	<b>2.8</b>
<b>30 G</b>	<b>30</b>	<b>5.6</b>	<b>5.5</b>	<b>30</b>	<b>10</b>	<b>3.7</b>
<b>60 G</b>	<b>60</b>	<b>5.0</b>	<b>13</b>	<b>60</b>	<b>8.5</b>	<b>8.0</b>
<b>120 G</b>		<b>5.5</b>	<b>25</b>	<b>120</b>	<b>8.5</b>	<b>16</b>
<b>150 G</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>150</b>	<b>9.5</b>	<b>20</b>

***SPARTOX 20 G Details of Arrangement Shown Below***

