

# OZONE GENERATOR

GM 1-4 2.0

**Primozone®**  
REDEFINING OZONE TECHNOLOGY



# SMALL. COMPACT.

## High Pressure & High Concentration

Ozone gas up to 4 bar(A) / 58 psi  
and 300g/m<sup>3</sup> / 20% by weight



## EASY TO INSTALL

Plug & Play

## MAINTENANCE FREE.

Only general safety inspection needed.

LOW CAPEX.  
LOW OPEX.



# PREMIUM.

## THE PRIME OZONE GENERATOR.

The Primozone GM1-4 2.0 series high-performance ozone generators are based on the redefining ozone technology derived from the patented Primozone anodized aluminium reactor, a technology that enables the world's most reliable ozone production, with the smallest energy consumption and the lowest life cycle cost.

## 20% BY WEIGHT.

The Primozone ozone generators produce ozone at a higher concentration than other commercially available high capacity ozone generators. The Primozone ozone generators can produce ozone at a concentration of up to 300 g O<sub>3</sub>/m<sup>3</sup> O<sub>2</sub>, equivalent to 20% by weight, with an absolute gas pressure of 4 bar(A) / 58 psi.

## TRUSTED.

The high ozone concentration produced in Primozone's generators, together with the high gas pressure, result in a greatly improved efficiency when dissolving the ozone gas in water. Tests at the Norwegian Institute of Technology have measured 98% dissolution in less than 3 minutes. This proves that the Primozone generators are very efficient for water treatment, and also very cost effective. The high gas pressure makes it possible to use alternative injection systems and to place the generators further away from a reaction tank.



## EASY TO OPERATE

No need for specialists to operate and control.



## RE-THINKING REDUNDANCY (UNIQUE; BUILT-IN)

Running back up.  
Primozone's unique built-in solution.



## SAFE, QUIET, RELIABLE

Suitable for office environments.  
Quiet as a whisper.



### **MODULAR**

Independent ozone reactors and power supplies



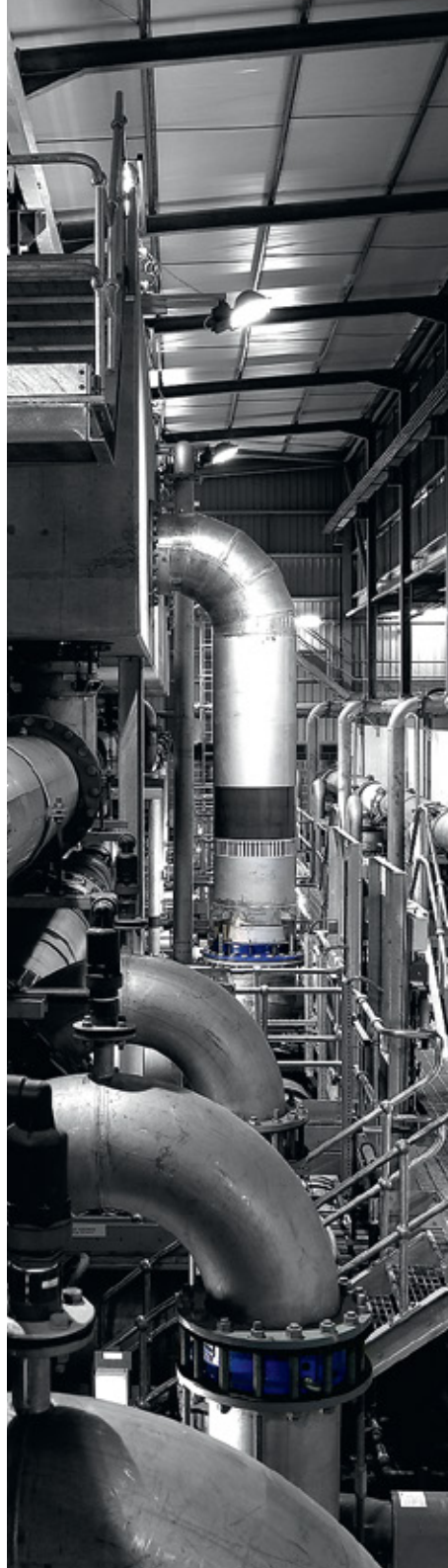
### **COMPACT DESIGN**

Space efficient and enables easy retrofitting.



### **LESS ENERGY, LOWER OPEX**

The innovative rethink of ozone technology yields impressive savings in energy use and costs compared to traditional ozone solutions.



## **EXCLUSIVE. INTELLIGENT.**

Whatever size ozone generator you need, there is no reason to compromise on any features. All the Primozone ozone generators are based on the same redefining ozone technology that delivers world class ozone production.

The GM series offers ten standard size ozone generators. The modular design makes it possible to combine the standard generators to fit almost all your ozone needs, from small to large demand. Regardless of capacity needed, Primozone can offer a suitable solution.

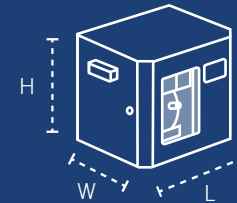
Depending on application and your needs, Primozone offers ten different ozone generators with an ozone capacity that range from 6 g to 2.9 kg ozone /h (0.3 to 153 lbs/day) with a 150-300 g/m<sup>3</sup> ozone concentration. The GM1-4 series ranges from 6 g to 240 g ozone /h (0.3 to 0.5 lbs/day). A combination of two or more generators can cover larger needs, with a capacity of up to 60 kg ozone /h (3200 lbs/day). An existing system can easily be upgraded with additional ozone generators to cover future increased needs.

The Primozone ozone generators produce ozone at the exact levels needed at any given time. When ozone production varies according to redox (ORP) value or flow, the oxygen and energy consumption for the complete system adjusts accordingly, making the complete solution energy efficient. This is only one of the unique features of the Primozone ozone generator.

Each generator has an integrated control system providing safety, monitoring and control. The system delivers information in real-time about ozone levels, gas pressure and gas flow. The ozone generator is equipped with a user friendly interface which makes it easy to operate. The built-in control system will automatically log and handle different production disturbances, e.g. loss of oxygen supply.

The Primozone ozone generator is a complete Plug and Play system, easy to install and operate. The modular design makes the generator reliable and very easy to maintain. Most systems are up and running within 24 hours after delivery. The small footprint of the Primozone ozone generator is a great advantage compared to conventional ozone generators. The space requirement could be as low as 20% of a standard generator.

# TECHNICAL SPECIFICATIONS



GM	OZONE CONCENTRATION		MAX OZONE PRODUCTION		MAX OXYGEN CONSUMPTION		MAX POWER (kW)	LENGTH x WIDTH x HEIGHT	WEIGHT
	g/m <sup>3</sup> *	%	g/hour	lbs/day	m <sup>3</sup> /h*	l/min*			
GM1	150	10%	60	3.2	0.41	6.8	0.60	603 x 437 x 517 mm 23.7 x 17.2 x 20.3 "	36 kg 79.3 lb
	200	13%	50	2.6	0.25	4.2			
	250	17%	40	2.1	0.16	2.6			
	300	20%	27	1.4	0.098	1.6			
GM2	150	10%	120	6.3	0.81	14	1.2	603 x 437 x 517 mm 23.7 x 17.2 x 20.3 "	45 kg 99.2 lb
	200	13%	100	5.3	0.50	8.4			
	250	17%	80	4.2	0.32	5.3			
	300	20%	54	2.9	0.20	3.3			
GM3	150	10%	180	9.5	1.2	20	1.8	603 x 437 x 517 mm 23.7 x 17.2 x 20.3 "	52 kg 114.6 lb
	200	13%	150	7.9	0.75	13			
	250	17%	120	6.3	0.48	7.9			
	300	20%	81	4.3	0.29	4.9			
GM4	150	10%	240	13	1.6	27	2.4	603 x 437 x 517 mm 23.7 x 17.2 x 20.3 "	60 kg 132.2 lb
	200	13%	200	11	1.0	17			
	250	17%	160	8.3	0.63	11			
	300	20%	110	5.7	0.39	6.5			

The above figures can vary +/-10%

\*These values assume gas properties are standardized at 0°C / 68°F and atmospheric pressure.

\*\* At 10°C (50°F) cooling water temperature.