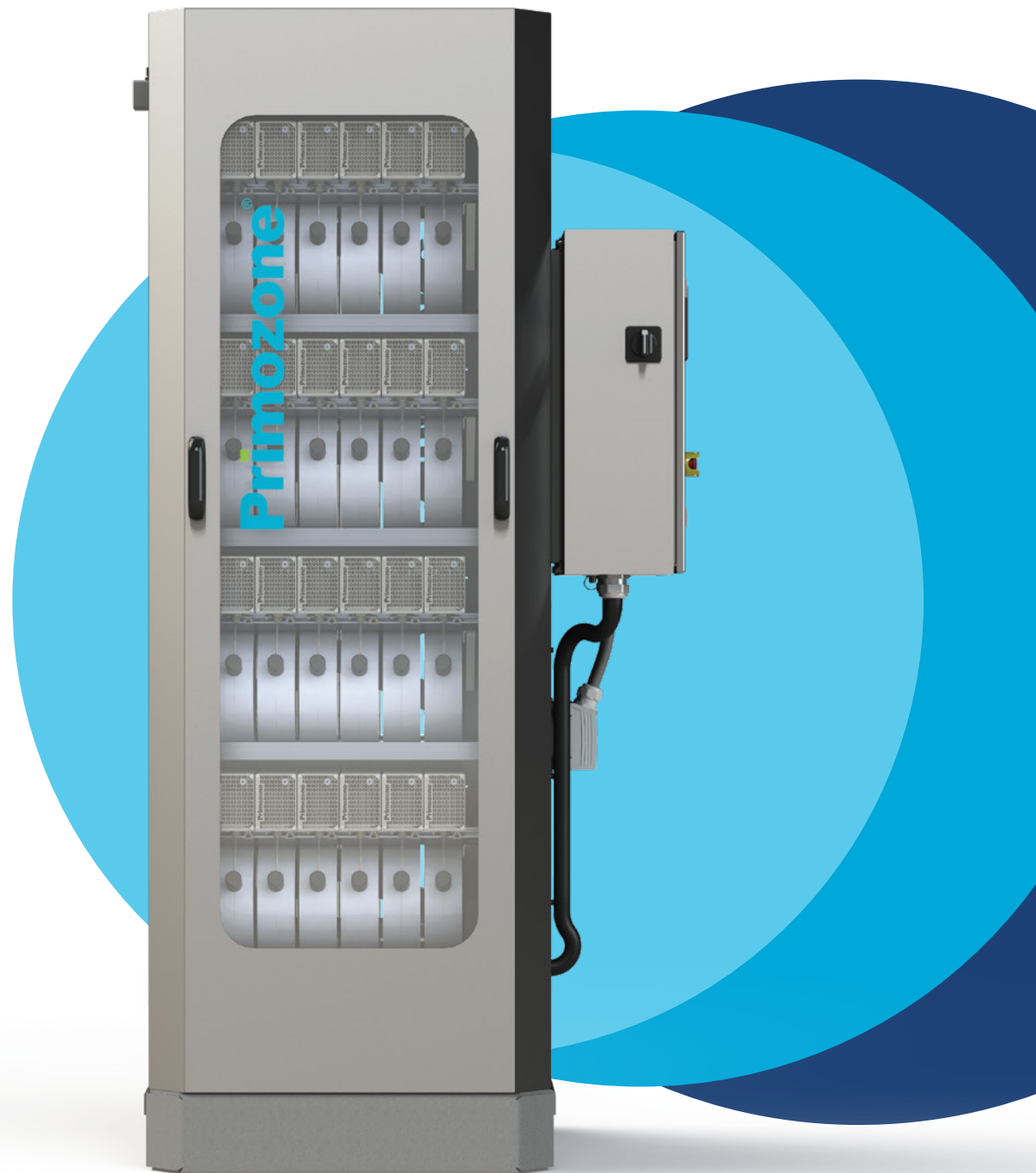


OZONE GENERATOR

GM 6 - 48 2.0

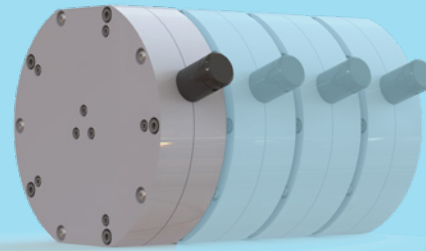
Primozone[®]
REDEFINING OZONE TECHNOLOGY



SMALL. COMPACT.

High Pressure & High Concentration

Ozone gas up to 3 bar(g) / 43.5 psig.
GM6-48's capacity ranges from 20 to 2900 g/h of ozone
(0.5 to 150 lbs/day)
150-300 g/m³, 10 -20% by weight



MODULAR

Add reactors for more ozone

MAINTENANCE FREE.
Only functional control

**COST EFFICIENT
ENERGY SAVER**

**LOW CAPEX.
LOW OPEX.**



PREMIUM.

THE PRIME OZONE GENERATOR.

The Primozone GM6-48 2.0 series high-performance ozone generators are based on Primozone's patented technology. A technology that enables reliable ozone production, with low energy consumption and outstanding life cycle cost.

20% BY WEIGHT.

The Primozone ozone generators produce ozone at a higher concentration than most other commercially available high capacity ozone generators. The Primozone ozone generators can produce ozone at a concentration of up to 300 g O₃/m³ O₂, equivalent to 20% by weight, with an absolute gas pressure of 3 bar(g) / 43.5 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.

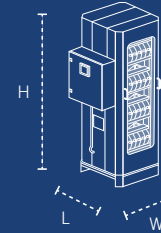
Depending on application and your needs, Primozone offers ten different ozone generators with an ozone capacity that range from 4 g to 2.9 kg ozone /h (0.3 to 150 lbs/day) with a 150-300 g/m³ ozone concentration. The GM6-48 series ranges from 20 g to 2.9 kg ozone /h (0.5 to 150 lbs/day). A combination 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 ³	%	g/hour	lbs/day	m ³ /h*	l/min*	SCFH*			
GM6	150	10%	360	19	2.4	41	86	3.6	793 x 420 x 602 mm 31.2 x 16.5 x 23.7"	85 kg 187 lbs
	200	13%	300	16	1.5	25	53			
	250	17%	240	13	0.95	16	34			
	300	20%	160	8.6	0.59	9.8	21			
GM12	150	10%	720	38	4.9	81	170	7.2	728 x 424 x 1193 mm 28.7 x 16.7 x 47"	230 kg 507 lbs
	200	13%	600	32	3.0	50	110			
	250	17%	480	25	1.9	32	67			
	300	20%	320	17	1.2	20	42			
GM18	150	10%	1100	57	7.3	120	260	10.8	728 x 424 x 1569 mm 28.7 x 16.7 x 61.8"	280 kg 617 lbs
	200	13%	900	48	4.5	75	160			
	250	17%	720	38	2.9	48	100			
	300	20%	490	26	1.8	29	62			
GM24	150	10%	1400	76	9.7	160	340	14.4	992 x 855 x 1634 mm 39 x 34 x 64.3"	470 kg 1 036 lbs
	200	13%	1200	63	6.0	100	210			
	250	17%	960	51	3.8	63	130			
	300	20%	650	34	2.4	39	83			
GM36	150	10%	2200	110	15	240	520	21.6	992 x 855 x 1634 mm 39 x 34 x 64.3"	570 kg 1 256 lbs
	200	13%	1800	95	9.0	150	320			
	250	17%	1400	76	5.7	95	200			
	300	20%	970	51	3.5	59	120			
GM48	150	10%	2900	150	19	320	690	28.8	992 x 855 x 2010mm 39 x 34 x 79.1	710 kg 1 565 lbs
	200	13%	2400	130	12	200	430			
	250	17%	1900	100	7.6	130	270			
	300	20%	1300	69	4.7	78	170			

The above figures can vary ±10% and apply under the cooling conditions recommended by Primozone.

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

DETAILED SPECIFICATIONS

	GM6 2.0	GM12 2.0	GM18 2.0
Dimensions			
Height	602 mm/23.7"	1193 mm/47.0"	1569 mm/61.8"
Width	793 mm/31.2"	728 mm/28.7"	728 mm/28.7"
Depth	420 mm/16.5 "	424 mm/16.7"	424 mm/16.7"
Weight	85 kg	230 kg	280 kg
Ozone Output			
Max ozone productivity	360 g/h, 19 lbs/day	720 g/h, 38 lbs/day	1100 g/h, 57 lbs/day
Control range	10 % - 100 %	10 % - 100 %	10 % - 100 %
Feed Gas			
Oxygen purity	> 94%, < 1%N ₂ , Filtered	> 94%, < 1%N ₂ , Filtered	> 94%, < 1%N ₂ , Filtered
Oxygen dew point	< -70 °C, < -94 °F	< -70 °C, < -94 °F	< -70 °C, < -94 °F
Max gas pressure at inlet	3 bar(g), 44 psig	3 bar(g), 44 psig	3 bar(g), 44 psig
Ozone pressure	< 2.9 bar(g), < 42 psig	< 2.9 bar(g), < 42 psig	< 2.9 bar(g), < 42 psig
Target inlet gas pressure	2.5 bar(g), 36 psig	2.5 bar(g), 36 psig	2.5 bar(g), 36 psig
Gas connector	½" internal threaded BSP	½" internal threaded BSP	½" internal threaded BSP
Max oxygen consumption	41 l/min, 86 Ft ³ /h	81 l/min, 170 Ft ³ /h	120 l/min, 260 Ft ³ /h
Cooling water			
Min water flow	0.63 m ³ /h, 2.8 GPM	1.3 m ³ /h, 5.5 GPM	1.9 m ³ /h, 8.3 GPM
Max water pressure	6 bar(g)	6 bar(g)	6 bar(g)
Water quality	Drinking water (98/83/EC), closed loop.	Drinking water (98/83/EC), closed loop.	Drinking water (98/83/EC), closed loop.
Cooling water target T, ΔT	10 °C, 5 °C / 50° F, 41° F	10 °C, 5 °C / 50° F, 41° F	10 °C, 5 °C / 50° F, 41° F
Water pressure drop	0.4 bar / 6 psi	0.4 bar / 6 psi	0.4 bar / 6 psi
Water connector	1" BSP	1" BSP	1" BSP
Cooling agent composition	~30 % ethylene glycol, ~70 % water	~30 % ethylene glycol, ~70 % water	~30 % ethylene glycol, ~70 % water
Power Input			
Power supply	400/230V+N+PE AC 50/60Hz	400/230V+N+PE AC 50/60Hz	400/230V+N+PE AC 50/60Hz
Max power	3.6 kW	7.2 kW	10.8 kW
Power factor, full %	0.99	0.99	0.99
Max fuse	16A	40A	40A
Compliance & Certifications			
CE	EN 60204-1:2016, EN 61558-1:2005, EN 61558-2-16:2009, EN 1050: 1997		
FIFRA est. Number	95235-SWE-1		
Noise level	< 55 dB, EN 9614-1:2009		
Ingress protection	IP44		
EMC Emission&Immunity	EMC2014/30/EU, EN61000-6-2EN61000-6-4		

DETAILED SPECIFICATIONS

	GM24 2.0	GM36 2.0	GM48 2.0
Dimensions			
Height	1634 mm/64.32"	1634 mm/64.32"	2010 mm/79.1"
Width	855 mm/34"	855 mm/34"	855 mm/34"
Depth	992 mm/39"	992 mm/39"	992 mm/39"
Weight	470 kg	570 kg	710 kg
Ozone Output			
Max ozone productivity	1400 g/h, 76 lbs/day	2200 g/h, 110 lbs/day	2900 g/h, 150 lbs/day
Control range	10 % - 100 %	10 % - 100 %	10 % - 100 %
Feed Gas			
Oxygen purity	> 94%, < 1%N ₂ , Filtered	> 94%, < 1%N ₂ , Filtered	> 94%, < 1%N ₂ , Filtered
Oxygen dew point	< -70 °C, < -94 °F	< -70 °C, < -94 °F	< -70 °C, < -94 °F
Max gas pressure at inlet	3 bar(g), 44 psig	3 bar(g), 44 psig	3 bar(g), 44 psig
Ozone pressure	< 2.9 bar(g), < 42 psig	< 2.9 bar(g), < 42 psig	< 2.9 bar(g), < 42 psig
Target inlet gas pressure	2.5 bar(g), 36 psig	2.5 bar(g), 36 psig	2.5 bar(g), 36 psig
Gas connector	½" internal threaded BSP	½" internal threaded BSP	½" internal threaded BSP
Max oxygen consumption	160 l/min, 340 Ft ³ /h	240 l/min, 520 Ft ³ /h	320 l/min, 690 Ft ³ /h
Cooling water			
Min water flow	2.5 m ³ /h, 11 GPM	3.6 m ³ /h, 17 GPM	5.0 m ³ /h, 22 GPM
Max water pressure	6 bar(g)	6 bar(g)	6 bar(g)
Water quality	Drinking water (98/83/EC), closed loop.	Drinking water (98/83/EC), closed loop.	Drinking water (98/83/EC), closed loop.
Cooling water target T, ΔT	10 °C, 5 °C / 50° F, 41° F	10 °C, 5 °C / 50° F, 41° F	10 °C, 5 °C / 50° F, 41° F
Water pressure drop	0.4 bar / 6 psi	0.4 bar / 6 psi	0.4 bar / 6 psi
Water connector	1" BSP	1" BSP	1" BSP
Cooling agent composition	~30 % ethylene glycol, ~70 % water	~30 % ethylene glycol, ~70 % water	~30 % ethylene glycol, ~70 % water
Power Input			
Power supply	400/230V+N+PE AC 50/60Hz	400/230V+N+PE AC 50/60Hz	400/230V+N+PE AC 50/60Hz
Max power	14.4 kW	21.6 kW	28.8 kW
Power factor, full %	0.99	0.99	0.99
Max fuse	63A	63A	63A
Compliance & Certifications			
CE		EN 60204-1:2016, EN 61558-1:2005, EN 61558-2-16:2009, EN 1050: 1997	
FIFRA est. Number		95235-SWE-1	
Noise level		< 55 dB, EN 9614-1:2009	
Ingress protection		IP44	
EMC Emission&Immunity		EMC2014/30/EU, EN61000-6-2EN61000-6-4	