OZONE GENERATOR

GM 6 - 48 2.0





SMALL. Compact.





MODULAR

Design to fit your requirements

COST-EFFECTIVE ENERGY SAVER

> LOW CAPEX LOW OPEX

HIGH PRESSURE & HIGH CONCENTRATION

Ozone gas up to 3 bar(g) / 43.5 psig. Capacity up to 2900 g/h of ozone (0.5 to 150 lbs/day) 150-300 g/m3, 10–20 % by weight



THE PRIMEOZONE GENERATOR.

Primozone GM6-48 2.0 high-performance ozone generators are based on Primozone's patented technology to enable reliable ozone production while providing impressively low energy consumption and life-cycle cost.

20% BY WEIGHT.

Primozone ozone generators produce ozone at a higher concentration than most other commercially available high-capacity ozone generators, delivering ozone at a concentration of up to 300 g $O_3/m^3 O_2$ – that's equivalent to 20 % by weight, with an absolute gas pressure of 3 bar(g) / 43.5 psig.

PREMIUM.

TRUSTED.

The combination of high ozone concentration and high gas pressure produced in Primozone generators results in greatly improved efficiency when dissolving ozone gas in water. Tests at the Norwegian Institute of Technology have measured 98 % dissolution in under 3 minutes, proving that Primozone generators are very efficient for water treatment, and cost effective as well. The high gas pressure makes it possible to use alternative injection systems and place the generators at greater distances from a reaction tank, thus increasing flexibility.





EASY TO OPERATE No need for specialists for operation or control.



RETHINKING REDUNDANCY (UNIQUE; BUILT-IN)

Running backup. Primozone's unique built-in solution.



SAFE, QUIET, RELIABLE <55 dB; easy to maintain.



MODULAR Independent ozone reactors and power supplies.



UPS Battery backup in case of power failure.



COMPACT DESIGN Small footprint and easy retrofitting.



LESS ENERGY, LOWER OPEX

Significant savings in energy use and cost compared to traditional ozone solutions.



EXCLUSIVE. INTELLIGENT.

Whatever size ozone generator you need, choosing Primozone means you don't need to compromise on features. All Primozone ozone generators are based on the same redefining ozone technology that delivers world-class ozone production.

The GM series offers ozone generators in 10 standard sizes, and the modular design makes it possible to combine these generators to fit your ozone needs, from small to large demand. Regardless of the capacity needed, Primozone has a suitable solution.

Your application and specific ozone needs determine which standard-size Primozone generators are best for the task. Primozone ozone capacity ranges from 4 g to 2.9 kg O_3/h (0.3 to 153 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 offer capacity up to 60 kg O_3 /h (3,200 lbs/day). Existing systems can be easily upgraded with additional ozone generators to cover future needs.



Each generator has an integrated control system to provide 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 for easy operation. The built-in control system will automatically log and handle any production disturbances, such as interruption of the oxygen supply.

The Primozone ozone generator is a complete, plug-and-play system that's easy to install and operate. The modular design makes the generator reliable and very easy to maintain. Most Primozone systems are up and running within 24 hours after delivery.

The small footprint of the Primozone ozone generator offers a great advantage compared to conventional ozone generators. Space requirements can be as low as 20 % compared to those for a standard generator.

TECHNICAL SPECIFICATIONS



GM	OZONE Concer	ITRATION	MAX (Prod	DZONE Uction	MAX OX Consun	YGEN 1PTION		MAX POWER	WIDTH x DEPTH x HEIGHT	WEIGHT
	g/m³	%	g/hour	lbs/day	m³/h*	l/min*	SCFH**	(kW)		
GM6	150 200 250 300	$\left \frac{\frac{10\%}{13\%}}{\frac{17\%}{20\%}}\right $	360 300 240 160		2.4 1.5 0.95 0.59		92 57 36 22	3.6	793 x 420 x 602 mm 31.2 x 16.5 x 23.7"	85 kg 187 lbs
GM12	150 200 250 300	$\left \begin{array}{c} \frac{10\%}{13\%} \\ \frac{17\%}{20\%} \end{array} \right $	720 600 480 320	<u>38</u> <u>32</u> <u>25</u> 17	<u>4.9</u> <u>3.0</u> <u>1.9</u> <u>1.2</u>		180 110 72 45	7.2	728 x 424 x 1193 mm 28.7 x 16.7 x 47"	230 kg 507 lbs
GM18	150 200 250 300	$\left \frac{\frac{10\%}{13\%}}{\frac{17\%}{20\%}}\right $	1100 900 720 490	57 48 38 26	7.3 4.5 2.9 1.8	120 75 48 29	280 170 110 67	10.8	728 x 424 x 1569 mm 28.7 x 16.7 x 61.8"	280 kg 617 lbs
GM24	150 200 250 300	$\left \frac{\frac{10\%}{13\%}}{\frac{17\%}{20\%}}\right $	1400 1200 960 650	$ \begin{bmatrix} 76 \\ 63 \\ 51 \\ 34 \end{bmatrix} $	9.7 6.0 3.8 2.4		370 230 140 89	14.4	992 x 855 x 1634 mm 39 x 34 x 64.3"	470 kg 1 036 lbs
GM36	150 200 250 300	$\left \begin{array}{c} \underline{10\%} \\ \underline{13\%} \\ \underline{17\%} \\ \underline{20\%} \end{array} \right $	$ \frac{ 2200}{ 1800} \\ 1400 \\ 970 $	$\begin{vmatrix} \frac{110}{95} \\ \frac{76}{51} \end{vmatrix}$	15 9.0 5.7 3.5	240 150 95 59	550 340 220 130	21.6	992 x 855 x 1634 mm 39 x 34 x 64.3"	570 kg 1 256 lbs
GM48	150 200 250 300	$\left \begin{array}{c} 10\% \\ 13\% \\ 17\% \\ 20\% \end{array} \right $	2900 2400 1900 1300	$\left \begin{array}{c} 150\\ \hline 130\\ \hline 100\\ \hline 69 \end{array} \right $	19 12 7.6 4.7	320 200 130 78	740 460 290 180	28.8	992 x 855 x 2010 mm 39 x 34 x 79.1	710 kg 1 565 lbs

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

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



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DETAILED SPECIFICATIONS

EMC Emission&Immunity

Dimensions	GM6 2.0	GM12 2.0	GM18 2.0				
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 / 187 lbs	230 kg / 507 lbs	280 kg / 617 lbs				
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 %				
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 I/min, 92 SCFH	81 I/min, 180 SCFH	120 l/min, 280 SCFH				
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 Τ, ΔT	10 °C, 5 °C / 50° F, 9° F	10 °C, 5 °C / 50° F, 9° F	10 °C, 5 °C / 50° F, 9° 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 supply	400/230 V+N+PE AC 50/60 Hz	400/230 V+N+PE AC 50/60 Hz	400/230 V+N+PE AC 50/60 Hz				
Max power	3.6 kW	7.2 kW	10.8 kW				
Power factor, full %	0.99	0.99	0.99				
Max fuse	16 A	40 A	40 A				
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						

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EMC2014/30/EU, EN61000-6-2EN61000-6-4

DETAILED **SPECIFICATIONS**

CE

FIFRA est. Number

Ingress protection

EMC Emission&Immunity

Noise level

Dimensions	GM24 2.0	GM36 2.0	GM48 2.0
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 / 1,036 lbs	570 kg / 1,256 lbs	710 kg / 1,565 lbs
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 pullty	> 94 %, < 1%N ₂ , Filtered	> 94 %, < 1 %N ₂ , Filtered	> 94 %, < 1 %N ₂ , Filtered
Max and pressure at inlat	< -70 °C, < -94 °F	< -70 °C, < -94 °F	< -70 °C, < -94 °F
Max gas pressure at miet	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
larget iniet gas pressure	2.5 bar(g), 36 psig	2.5 bar(g), 36 psig	2.5 bar(g), 36 psig
Gas connector	1/2" internal threaded BSP	1/2" internal threaded BSP	1/2" internal threaded BSP
Max oxygen consumption	160 I/min, 370 SCFH	240 I/min, 550 SCFH	320 I/min, 690 SCFH
Cooling water			
Min water flow	2.5 m³/h, 11 GPM	3.6 m³/h, 17 GPM	5.0 m³/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, 9° F	10 °C, 5 °C / 50° F, 9° F	10 °C, 5 °C / 50° F, 9° 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	400/230 V+N+PE AC 50/60 Hz	400/230 V+N+PE AC 50/60 Hz	400/230 V+N+PE AC 50/60 Hz
Max power	14.4 kW	21.6 kW	28.8 kW
Power factor, full %	0.99	0.99	0.99
Max fuse	63 A	63 A	63 A
Compliance & Certifications			

EN 60204-1:2016, EN 61558-1:2005, EN 61558-2-16:2009, EN 1050: 1997 95235-SWE-1 < 55 dB, EN 9614-1:2009 IP44 EMC2014/30/EU, EN61000-6-2EN61000-6-4

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