

PRIMOZONE® GM-SERIES

- high concentration ozone generators

The Primozone® GM-series ozone generators are built on patented cutting-edge technology that enables ozone production with a very high concentration and at a very high outlet pressure. The GM ozone generators are energy efficient, maintenance free and have a low life-cycle cost.

MAIN FEATURES

High production capacity - single units from 0,1 - 5,4kg O₃/h (5 - 287 lbs/day), built-to-fit systems for higher output up to 25kg O₃/h (1440 lbs/day).

Highest ozone concentration - with up to 20 wt%

Easy to use - no need for specialist competence to operate and control

Highest gas pressure - an absolute gas pressure of up to 3.2 bars (44 psi) enables for efficient dissolution and distribution of the ozone

Lowest oxygen consumption - uses up to half the amount of oxygen which means a low energy consumption

Maintenance free - made only from stainless steel and aluminum

Built-in redundancy - modular design of the reactor blocks ensures a built in redundancy. No need to oversize

Smallest footprint - saves space and enables easy retrofitting

Quiet and EMC-approved - can be placed anywhere

Precise dosing - integrated control system with unique features that will vary the dosing provide the desired ozone level at any given time

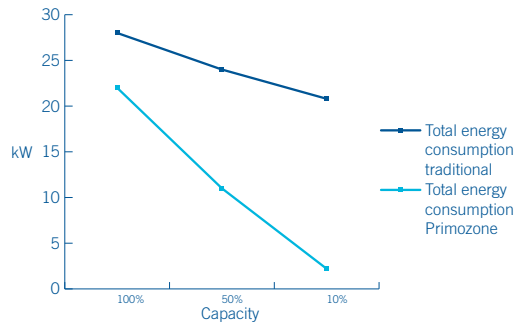


Primozone GM18
- capacity 1kg O₃/h (53 lbs/day)

ENERGY CONSUMPTION

One of the key advantages with the Primozone® GM-series ozone generator technology is its energy saving capability. A GM ozone generator can save up to 70% energy compared to a traditional ozone generator. In comparison it also uses less oxygen and will vary the oxygen consumption according to the capacity used.

TOTAL ENERGY CONSUMPTION/kg O₃ =
OXYGEN GENERATION + OZONE GENERATION + CAPACITY



With the Primozone ozone technology the consumption of oxygen varies according to the capacity. This means large energy savings at periods of lower capacity or when the capacity varies over the day.

TECHNICAL DATA

GM-model	Ozone concentration wt/wt	Ozone production		Oxygen consumption		GM energy consumption kW
		gO ₃ /hour	lbs/day	Nm ³ /hour	Ft ³ /hour	
GM-on demand	10-20%	up to 25000	up to 1440	up to 184	up to 6498	up to 288
	The GM-series can be produced on-demand to meet specific ozone production needs and other customer requirements.					
GM96	10%	5440	287.8	36.8	1300.0	57.6
	13%	4800	253.9	24.0	847.6	57.6
	17%	3920	207.4	16.0	565.0	57.6
	20%	2720	143.9	9.6	339.0	57.6
GM48	10%	2720	143.9	18.4	649.8	28.8
	13%	2400	126.9	12.0	423.8	28.8
	17%	1960	103.7	8.0	282.5	28.8
	20%	1360	71.9	4.8	169.5	28.8
GM18	10%	1020	53.9	6.8	240.0	10.8
	13%	900	47.6	4.5	158.9	10.8
	17%	740	39.1	3.0	105.9	10.8
	20%	520	27.5	1.7	60.0	10.8
GM12	10%	680	35.9	4.5	158.9	7.2
	13%	600	31.7	3.0	105.9	7.2
	17%	490	25.9	2.0	70.6	7.2
	20%	341	18.0	1.1	38.8	7.2
GM6	10%	340	17.9	2.3	81.2	3.6
	13%	300	15.8	1.5	52.9	3.6
	17%	245	12.9	1.0	35.3	3.6
	20%	170	8.9	0.6	21.2	3.6
GM2	10%	110	5.8	0.7	24.7	1.2
	13%	100	5.2	0.5	17.7	1.2
	17%	80	4.2	0.3	10.6	1.2
	20%	55	2.9	0.2	7.0	1.2

Above figures are at 100 % capacity usage, and at a cooling water temp. of 10° C/50° F

DIMENSIONS

Model	Height	Width	Depth	Weight
GM- on demand	2100 mm/ 83 inch	customized assembly	customized assembly	up to 6250 kg/ 13780 lb
GM96	2100 mm/ 83 inch	2000 mm/ 79 inch	732 mm/ 29 inch	1250 kg/ 2756 lb
GM48	2100 mm/ 83 inch	900 mm/ 35 inch	732 mm/ 29 inch	640 kg/ 1411 lb
GM18	1900 mm/ 75 inch	700 mm/ 28 inch	446 mm/ 18 inch	280 kg/ 617 lb
GM12	1500 mm/ 59 inch	700 mm/ 28 inch	446 mm/ 18 inch	230 kg/ 507 lb
GM6	1100 mm/ 43 inch	700 mm/ 28 inch	446 mm/ 18 inch	125 kg/ 276 lb
GM2	510 mm/ 20 inch	662 mm/ 28 inch	360 mm/ 14 inch	52 kg/ 116 lb



Inside of GM48 capacity 2,4kg O₃/h (127 lbs/day)
 - shows the modular design and the robust aluminium reactors.

FEATURES

- Ozone pressure at outlet (absolute) Up to 3.2 bar (44 psi)
- Noise level Less than 55 dB
- Conformity CE
- Material Stainless steel and aluminium

Partner in Canada **VEK ENVIRONMENTAL LTD.**

VEK Environmental, 5211-151st, Edmonton Alberta, T6H 4Z9
 Phone 780-886-6916 info@vekenvironmental.com www.vekenvironmental.com