

Gaiazone – Specifications

Modular Ozone Generator



Gaia ozone generator

Water ApS offers a standard size Gaia ozone generator, which is based on a patented ozone technology by Water ApS .

Facts about Gaia generator series:

- High performance ozone generators based on a unique and patented technology by Water ApS.
- Ozone production up to 60 g O₃/h per cell.
- Steadily high ozone concentrations ranging from 8-15% wt/wt.
- Low energy consumption: our cell, when using purified oxygen feed gas, produces 1.0 g of ozone consuming 10-12 W of electricity.
- Gas pressure at 2.5 bars; the cell withstands pressure up to 10 bar.
- Gaia ozone generator is very compact and easy to install and operate.
- Low operational cost.
- Integrated flow regulator.
- Gaia ozone generator is made from aluminum.
- Ozone resistant fittings and check valves.
- Compact design saves space and can be easily placed.
- The cooling of the cell is achieved by liquid cooling.
- Light weight: suitable for mobile systems while lowering shipping costs.
- Feed gas flowmeter and needle valves are optional.
- Control unit is supplied by OxyGuard International A/S.
- Dissolved ozone sensors are supplied by OxyGuard International A/S.

Table 2: Gaia O3 generator specifications

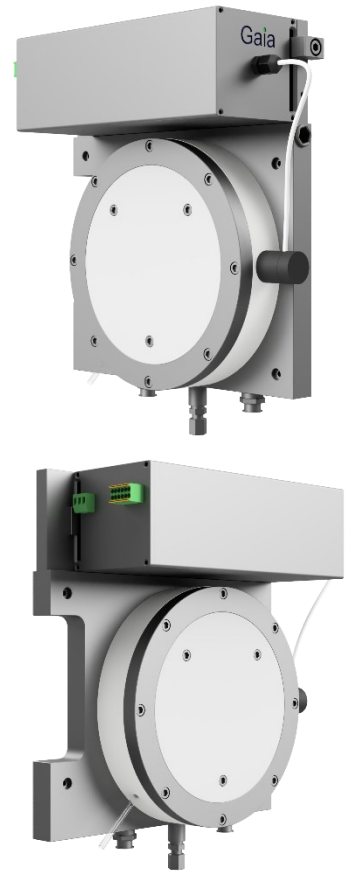
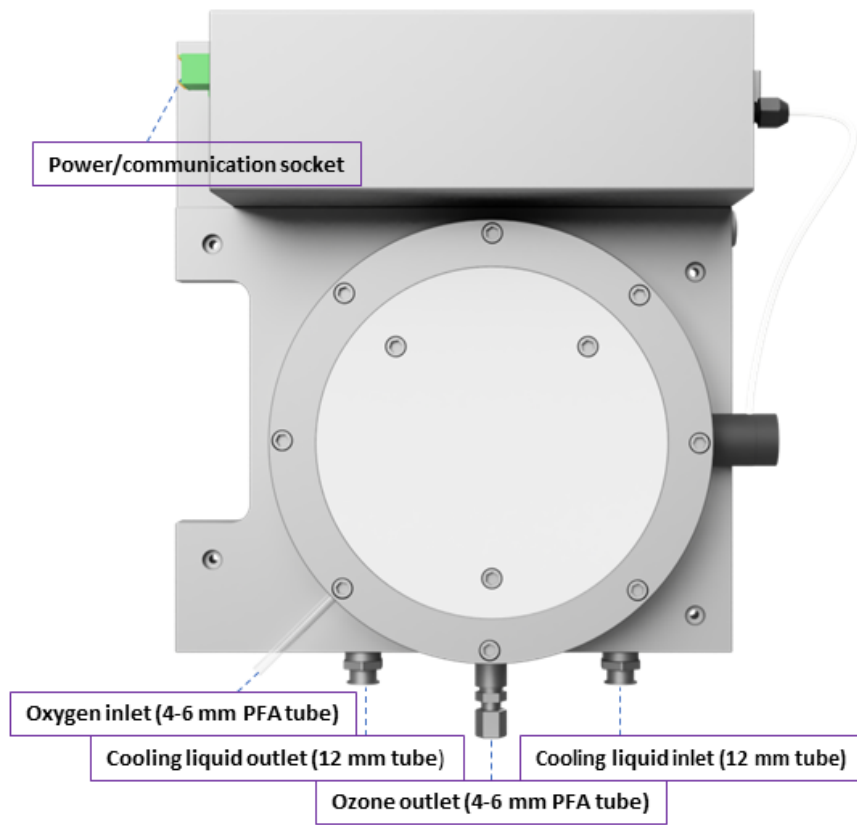
	WGS	WGD
Ozone output		
Ozone production (g/hour)*	60	120
Ozone concentration (% wt/wt)	10-20	10-20
Ozone concentration (g/Nm ³)	150-300	150-300
Operational conditions		
Operating pressure of the ozone generator (MPa)	0.25	0.25
Oxygen inlet (%)	93-97*	93-97*
Oxygen dew point (°C)	-60	-60
Oxygen inlet pressure (MPa)	0.2-0.3	0.2-0.3
Oxygen inlet flow rate (L/min)	6	12
Oxygen (Nm ³ /hour)	0.360	0.720
Oxygen (kg/hour)	0.5	1
Cooling fluid inlet temperature (°C)	<15	<15
Cooling fluid flow (L/min, per generator)	7	7
Maximum allowable pressure of the cooling agent (MPa)	0.6	0.6
Electricity requirement (V/Hz)	230 V(AC) ±3%, 50/60 Hz, Single Phase	
Current requirement (A)	4	8
Apparent supply power (VA)	700	1400
Maximum power consumption (W)	650	1300
Ambient temperature range (°C)	5-45	
Maximum relative humidity (% rH)	98, non-condensing	
Dimensions (cell)		
Height (mm)	330	330
Depth (mm)	300	300
Width (mm)	120	216
Cooling liquid inlet/outlet (mm)	10/12	10/12
Oxygen inlet (mm)	4/6	4/6
Ozone outlet (mm)	4/6	4/6
Materials		
	Stainless steel / Anodized aluminum / PTFE / PFA / PEEK	
Weight (kg)	12	20
IP class	IP21	

*at nominal oxygen flow (6 L/m) / cell.

Adequate cooling is required.

The Modular Gaiazone generators is available stand-alone or as part of a complete system including ozone sensors, ozone control unit etc.

WG60



Modular system

