

Ozone system DULCOZON OZLa

High-output ozone generator with a very compact design.



DULCOZON OZLa is an ozone generator with low life cycle costs. It combines a high ozone concentration with unbeatable efficiency.

Technical Details

- 8 different sizes depending on the capacity range
- Compact construction type, ready-to-use in a painted steel cabinet
- Systems with modular design and up to 16 blocks of generators
- Specific energy consumption of less than 8.0 Wh/g of ozone at an ozone concentration of 10 % weight and cooling water use of 0.7 l/g of ozone (15 °C)
- Innovative water cooling using special cooling concept with excellent cooling properties. Rapid and efficient dissipation of heat even with little cooling water consumption to prevent the ozone generated from decomposing as a result of excessive heat
- Cooling water system per module with automatic shut-off valve, adjustment valve and monitoring device via flow and temperature sensor
- Oxygen input including pressure control system, automatic shut-off valve, adjustment valve and pressure sensor
- Safety valve to protect against overpressure
- Ozone gas outlet with back pressure valve
- PLC control with operating data recorded on an SD card
- Simple, safe and reliable operation with process visualisation thanks to colour and clear 10" touch panel
- Contact inputs for external On/Off switching, gas detector connector, external fault alert and flow control
- 4-20 mA analogue input for power control depending on the measured value combined with external measuring and control technology
- Contact outputs for common alarm message, warning and operation
- Wide range of communication interfaces for connection to higher-level controls or for remote monitoring (LAN, PROFIBUS® DP, PROFINET®, Modbus TCP or RTU)
- Evaluation and analysis program for simply and rapidly visualising operating data on a PC



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Technical Data

DULCOZON ozone generation systems OZLa01 – 160 (feed gas - oxygen)

Ambient parameters

85 % max. air humidity of the ambient air, non-condensing, non-corrosive, dust-free, max. ambient temperature: 30 °C

		OZLa010	OZLa020	OZLa030	OZLa040	OZLa060	OZLa080	OZLa120	OZLa160
Number of modules		1	2	3	4	6	8	12	16
Nominal ozone capacity at 148 g/Nm ³ (10% weight)	g/h	380	760	1,140	1,520	2,280	3,040	4,560	6,080
Ozone connection		G1/2" female thread	G1/2" female thread	G1/2" female thread	G1/2" female thread	G1/2" female thread	G1/2" female thread	G1/2" female thread	G1/2" female thread

Electrical Connection

		OZLa010	OZLa020	OZLa030	OZLa040	OZLa060	OZLa080	OZLa120	OZLa160
Mains connected load	V/Hz/A	400-3ph/ 50; 60/ 20	400-3ph/ 50; 60/ 25	400-3ph/ 50; 60/ 30	400-3ph/ 50; 60/ 50	400-3ph/ 50; 60/ 50	400-3ph/ 50; 60/ 60	400-3ph/ 50; 60/ 90	400-3ph/ 50; 60/ 120
Enclosure rating		IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54

Overall dimensions without air conditioning

		OZLa010	OZLa020	OZLa030	OZLa040	OZLa060	OZLa080	OZLa120	OZLa160
Width	mm	1,000	1,000	1,200	1,200	1,600	1,600	3,000	3,000
Height	mm	1,400	1,400	1,900	1,900	1,900	1,900	1,900	1,900
Depth	mm	400	400	600	600	600	600	600	600

Weight

		OZLa010	OZLa020	OZLa030	OZLa040	OZLa060	OZLa080	OZLa120	OZLa160
Weight	kg	171	210	295	410	540	770	1,060	1,340

Ozone Mixing

		OZLa010	OZLa020	OZLa030	OZLa040	OZLa060	OZLa080	OZLa120	OZLa160
Max. raw water temperature	°C	30	30	30	30	30	30	30	30
Pressure at ozone output	bar	0.8...2.5	0.8...2.5	0.8...2.5	0.8...2.5	0.8...2.5	0.8...2.5	0.8...2.5	0.8...2.5

Specification of Operating Gas: Oxygen

		OZLa010	OZLa020	OZLa030	OZLa040	OZLa060	OZLa080	OZLa120	OZLa160
Gas volume at nominal power 148 g/Nm ³	Nm ³ /h	2.66	5.32	7.98	10.64	15.96	21.28	31.92	42.56

Oxygen quality

Requirements of ISO 8573-1, class 1, particle content 1...5 µm max. 10 mg/m³, max. dewpoint -50 °C and max. hydrocarbons 0.01 mg/m³. Min. concentration 90 vol %, pressure 4.5...10 bar, max. temperature 30 °C

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Cooling Water

		OZLa010	OZLa020	OZLa030	OZLa040	OZLa060	OZLa080	OZLa120	OZLa160
Cooling water consumption (15 °C)	l/h	250	500	750	1,000	1,500	2,000	3,000	4,000
Cooling water inlet pressure	bar	2...2.5	2...2.5	2...2.5	2...2.5	2...2.5	2...2.5	2...2.5	2...2.5
PVC cooling water input	DN	15	15	20	20	25	25	40	40
PVC cooling water output	DN	15	15	20	20	25	25	2 x 25	2 x 25

Cooling water quality

No tendency to form lime scale, no corrosive components; sedimentation substances: < 0.1 ml/l; no solids > 100 µm; iron: < 0.2 mg/l; manganese: < 0.05 mg/l; conductivity: > 100 µS/cm; chloride: < 250 mg/l