



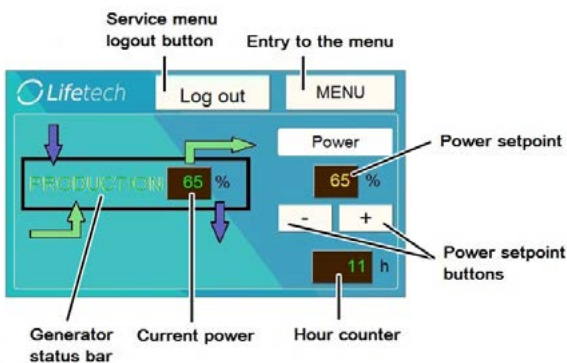
OZAST® - COMPACT OZONE GENERATORS

Compact and Reliable Ozone Generator OZAST
Oxygen or Dry Air Fed

Proven for many years in industrial use. LIFETECH Ozone Advanced Technology is now available in small and medium size ozone generators.

Disinfection - Removal of Contaminants - Decolouration
- Deodorization - Advanced Oxidation Processes

Equipped with user friendly touch screen control



APPLICATION

DRINKING WATER – disinfection, removal of iron, manganese, sulphides, nitrites, COD, pesticides and other pollutants, deodorization, taste enhancement
BOTTLED WATER, BEVERAGES – water treatment, rinsing of bottles, shelf life prolongation
PROCESS WATER – disinfection, deodorization,

decolouration, COD reduction, reduction of contaminants, water recycling, CIP processes

WASTE WATER – disinfection, reduction of colour and turbidity, deodorization, COD and AOX reduction, removal of contaminants as, e.g. phenols, pesticides, detergents, poly cyclic hydrocarbons, chlorinated hydrocarbons incl. PCDD/F (dioxins/furans), cyanides, sulphides, petrochemical contaminants etc.

POOL WATER – disinfection, reduction of organic pollutants incl. chloramines and trihalomethanes

BALLAST WATER – biocide treatment

GROUNDWATER – remediation, removal of pollutants
COOLING TOWERS – biocide treatment, removal of Legionella, algae and biofilms

AQUACULTURE – disinfection, reduction of dissolved organics, water quality improvement

AOP - Advanced Oxidation Process

High oxidation potential of ozone can be greatly enhanced by its combination with UV treatment or hydrogen peroxide dosing, i.e. by an approach known as Advanced Oxidation or Ultraviolet Oxidation. LIFETECH uses both processes and supplies its own LifeOX® technology based on optimized synergic action of ozone and UV radiation.

A small change
can make a big difference

LIFETECH s.r.o.
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Lifetech

TECHNICAL FEATURES

- Frequency: 50/60 Hz
- Voltage OZAST® 50 and OZAST® 100: 1 x 230 VAC
- Voltage OZAST® 200-750: 3 x 400 VAC
- Feed gas inlet pressure: 3 to 8 bar g
- Cooling water pressure: 2 to 6 bar g
- Cooling water inlet temperature: 20°C
- Design altitude: < 1 000 m.a.s.l.
- PLC Allen Bradley
- Option: Modbus, lightning protection

air humidity up to 65% RH, no condensation; temperature from +5°C to +40°C

MATERIALS

In contact with ozone:

stainless steel ANSI 316L, Teflon, PVDF, Viton

In contact with cooling water:

stainless steel ANSI 304/316L, brass, polyethylene

Enclosure: powder coated mild steel

DIMENSIONS AND WEIGHT

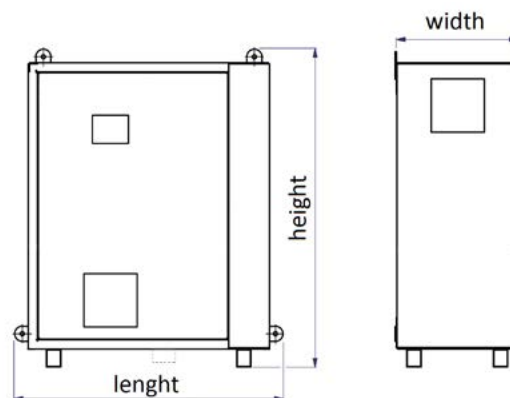
OZAST® Model	L x H x W (mm)	Weight (kg)
OZAST® 50	860 x 1 000 x 400	115
OZAST® 100	860 x 1 000 x 400	121
OZAST® 200	960 x 1 000 x 400	145
OZAST® 300	1 000 x 1 900 x 400	175
OZAST® 500	1 000 x 1 900 x 500	200
OZAST® 750	1 200 x 1 900 x 700	250



SPECIFICATIONS

OZAST® MODEL	OXYGEN FED			AIR FED				
	Ozone Production (g/h) - 10 wt%	Oxygen Flow (Nm³/h)	Outlet Pressure (barg)	Ozone Production (g/h) - 3 wt%	Air Flow (Nm³/h)	Outlet Pressure (barg)	Cooling Water (m³/h)	Power Consumption (kW)
OZAST® 50	50	0.35	< 1	35	0.9	< 2	0.1	0.7
OZAST® 100	100	0.7	< 1	70	1.8	< 2	0.2	1.3
OZAST® 200	200	1.4	< 1	140	3.6	< 2	0.4	2.6
OZAST® 300	300	2.1	< 1	210	5.4	< 2	0.6	3.9
OZAST® 500	500	3.5	< 1	350	9.0	< 2	1	6.5
OZAST® 750	750	5.2	< 1	525	13.5	< 2	1.5	9.8

Optimal concentration range is between 6 wt% and 12 wt% when fed with oxygen and 3 wt% to 5 wt% when fed with dry air



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