

# Compact ozone systems for water treatment



Ready-to-install compact unit Modular 004 R with redox monitoring

## ■ Environmentally-friendly water treatment using ozone

Ozone is one of the most effective oxidizers and can be used advantageously for the treatment of water. In a closed system ozone is introduced into the water. Through oxidation organic, chemical and microbiological pollution is reduced, residue-free and without any harmful by-products.

## ■ Economical ozone installations for small and medium capacities

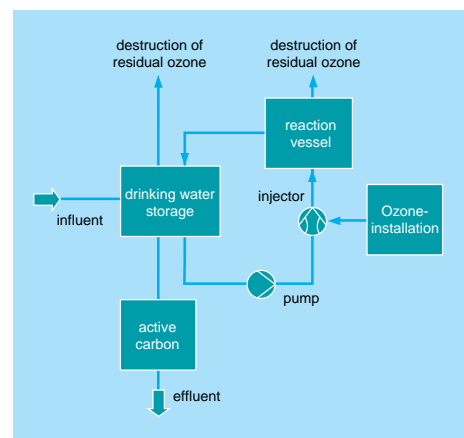
OZOMATIC has specialized in producing compact ozone installations which can generally be used in the fields of drinking, recycle and waste water. Moreover, custom-manufactured solutions for individual applications are offered. OZOMATIC ozone generators are particularly economical and are used for continuous operation in industries. The consumption of energy has been reduced to a minimum by micro-processor-optimized high frequency technology.

## Advantages of OZOMATIC systems

- guaranteed ozone output according to the german regulation DIN 19627
- low energy consumption
- compact construction method
- low installation cost
- easy installation and high operational safety



Ozone generator Modular 004 R with redox monitoring



Flow chart of drinking water treatment using ozone

## Scope of delivery

Ozone generator	modular 2	modular 4	modular 6
ozone output (g/h)	2	4	6
ozone concentration (g/m <sup>3</sup> )	2	4	24
ozone volume regulator	option	option	option
feed gas	air	dried air	oxygen
amount of feed gas (l/h)	1000	1000	250
PSA air drying incl. compressor	-	●	-
oxygen generator incl. compressor	-	-	●
ozone tube	ceramic	ceramic	ceramic
cooling	air	air	air
ambient temperature	10 <sup>0</sup> - 40 <sup>0</sup> C	10 <sup>0</sup> - 40 <sup>0</sup> C	10 <sup>0</sup> - 40 <sup>0</sup> C
power input	160 W	480 W	600 W
supply voltage	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
working hours counter	optional	●	●
dimensions (w x h x d)	400 x 600 x 200	600 x 600 x 200	600 x 600 x 200
dimensions oxygen generator (w x h x d)	-	-	680 x 440 x 250
weight (kg)	20	36	54

ready-to-install compact systems (incl. ozone generator)	modular 2	modular 4	modular 6
injector feeding system	●	●	●
optional Redoxsystem	●	●	●
pressure indicators:			
underpressure	-	●	●
injector admission pressure	●	●	●
injector counter pressure	●	●	●
circulation pump	●	●	●
tubing with connecting pieces D <sub>a</sub> 32	●	●	●
dimensions incl. ozone generator (w x h x d)	1450 x 610 x 500	1450 x 610 x 500	custom made
weight incl. ozone generator (kg)	50	65	85

All modular systems are also available in stainless steel-quality.

A custom manufactured design of all components is possible.

Ozone systems for 10-100 g/h, residual ozone destructor, reaction tank, filtration systems etc. upon request.

Subject to technical changes.

## ■ Applications for OZOMATIC systems

### ▶ Process water

- saving of high-quality drinking water by means of washing-water recycling using ozone
- microbiological purification and reduction of organic and chemical components
- applications: car wash, agriculture and sewage plants
- ultrapure water systems
- air purification systems



### ▶ Drinking, industrial and waste water

- disinfection, neutralization of any odour and taste as well as reduction of other contaminations using ozone
- applications: domestic water supply of hotels, swimming pools, hospitals, farms and sewage plants etc.
- drainwater and plant watering systems



### ▶ Food

- improvement of quality and storage properties
- disinfecting washing of fruit and vegetable using ozone
- treatment of process water in factories producing canned food

