

OZONE PRODUCT RANGE

Ozone systems

OZONE

The high oxidation potential of ozone, which is 50% higher than chlorine, has prompted many companies to use Ozonia ozone equipment in their manufacturing facilities. In partnership with clients, Ozonia applies its knowledge in the field of ozone generation to achieve the best overall conditions (price, delivery, safety aspects) for all types of pilot or industrial plants.

DRINKING WATER

It is an accepted fact that drinking water is disinfected when a residual of 0.4 mg/l of ozone has been maintained for 4 minutes. However, ozone has many additional benefits in the drinking water process:

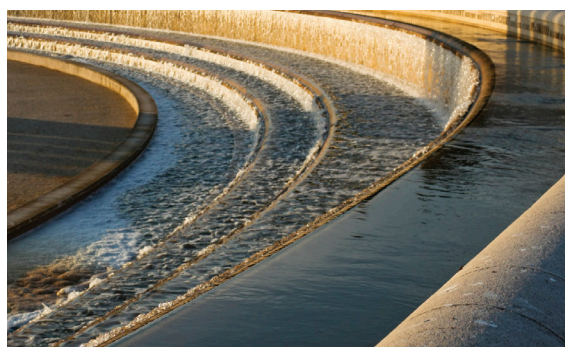
- In preozonation, ozone improves clarification and avoids the transformation of organic material to haloforms. It also promotes the destruction of micro-organisms such as algae.
- Main ozonation treatment specifically breaks down trace contaminants and enhances the biodegradability of organic substances which are then removed in a biological treatment step.
- Finally, combined treatments involving ozone and activated carbon or ozone and peroxide are currently the most powerful means available to water process engineers for the removal of contaminants and constitute a vital safeguard against accidental contamination.



WASTE WATER

The use of ozone in waste water treatment is expanding and already includes the destruction or removal of:









- Complex organic molecules in order to improve biodegradability
- Pharmaceutically Active Compounds (PAC's) and endocrine disruptors
- Cyanides and phenols from chemical waste
- Odors from condensates/wash-waters, which can then be recycled
- Color from dye works' effluent, paper mills, etc.
- Surfactants, detergents from washing centers
- Odor elimination from urban waste water plants or industrial flue gas



INDUSTRIAL

Ozone is the most economical agent for pulp bleaching processes avoiding the production of chlorinated compounds (AOX). Ozonia has committed major research efforts to this issue and is a leader in the field of large-scale optimised systems operating at high concentrations and pressures. Many pulp mills are producing ozone bleached pulp complying with the high standards imposed.

OZONIA

PRODUCT RANGE								
FEATURES	LAB 2B	TOGC 2	MEMBREL®	TOGC 8, 13 & 45	OZSKID / OZFIL™	OZAT® CFS	OZAT® CFV air/O ₂	XF™
Description	Ozone generator	Ozone generator	Ozone generator	Ozone generator + oxygen concentrator	Ozone generator	Ozone generator	Ozone generator	Ozone generator
Ozone production with air	4 g/h	4 g/h	3 – 9 g/h	-	37 – 112 g/h	37 – 470 g/h	0.75 – 9 kg/h	-
Ozone production with O ₂	10 g/h	10 g/h	-	8 – 45 g/h	-	53 – 690 g/h	1.3 – 26 kg/h	24 – 250 kg/h
Fully assembled	x	x	x	x	x	x	x	
Fully tested	x	x	x	x		x	x	
Completion on-site								x
Containerised version							x	x
SS enclosure option					x	x		
Remote control			x		x	x	x	x
APPLICATIONS								
Drinking water		x		x	x	x	x	x
Waste treatment		x		x		x	x	x
Cooling water		x		x		x	x	
Bottled water		x		x	x	x		
Food		x		x	x	x	x	
Aquaculture		x		x	x	x	x	
Pure water			x					
Pulp and paper								x
Pharmaceutical			x				x	
Semi-conductor			x				x	
Education / R&D	x							
TOC reduction				x		x		
COD reduction						x	x	x

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