



OZONE SYSTEMS OXIDATION BY OZONE GAS



Ozone Systems

Ozone gas is a powerful oxidiser and disinfectant, its oxidation potential is 50% higher than that of chlorine.

Oxidation is an effective way to disinfect, kill bacteria and viruses and to remove toxic and non-biodegradable components. Ozone decomposes rapidly, and therefore leaves no harmful residuals that would need to be removed from the wastewater after treatment. Unlike ultraviolet and chlorine disinfection, there is no regrowth of microorganisms after ozonation.

Applications for ozone solutions are for example:

- Legionella prevention in cooling towers
- Reuse of process water
- Removal of medicinal residues from wastewater
- Disinfection of wastewater
- Odour control
- Destroying toxic components

Ozone is a gas that needs to be generated in an ozone generator where oxygen is sent through high voltage electrodes and converted into ozone. Ozone needs to be generated on-site because it decomposes to elemental oxygen in a short amount of time.

Pure oxygen can be supplied either by oxygen tanks or generated locally by an oxygen generator. Systems will be supplied including required cooling systems and a control panel. A complete package includes a service level agreement with a monitoring contract



Series

Type	Size D x W x H mm	Design capacity	Ozone concentration	Energy consumptions	Pressure	Weight
Excellent Q 50	1000 x 1000 x 2000	50 g O ₃ / h	100 - 150 g O ₃ / Nm ³	35 W/g O ₃	1,37 bar	-
Excellent Q 100	1000 x 1000 x 2000	100 g O ₃ / h	100 - 150 g O ₃ / Nm ³	35 W/g O ₃	1,37 bar	-
NOS Q 60	380 x 662 x 510	60 g O ₃ / h	150 - 300 g O ₃ / Nm ³	9,9 W/g O ₃	1,37 bar	34 kg
NOS Q 120	380 x 662 x 510	120 g O ₃ / h	150 - 300 g O ₃ / Nm ³	9,9 W/g O ₃	1,37 bar	52 kg
NOS Q 150	380 x 662 x 510	180 g O ₃ / h	150 - 300 g O ₃ / Nm ³	9,9 W/g O ₃	1,37 bar	-
NOS XL 300	446 x 700 x 1100	300 g O ₃ / h	150 - 300 g O ₃ / Nm ³	12 W/g O ₃	2,2 bar	175 kg
NOS XL 600	446 x 700 x 1500	600 g O ₃ / h	150 - 300 g O ₃ / Nm ³	12 W/g O ₃	2,2 bar	230 kg
NOS XL 1000	446 x 700 x 1900	1000 g O ₃ / h	150 - 300 g O ₃ / Nm ³	12 W/g O ₃	2,2 bar	280 kg
NOS XL 2400	732 x 900 x 2100	2400 g O ₃ / h	150 - 300 g O ₃ / Nm ³	12 W/g O ₃	2,2 bar	640 kg
NOS XL 5000	732 x 2000 x 2100	5000 g O ₃ / h	150 - 300 g O ₃ / Nm ³	12 W/g O ₃	2,2 bar	1250 kg

Advantages & characteristics

Excellent Q Serie

The Excellent Q-series ozone generator is designed for the smaller applications in the Benelux, up to 100 gram ozone per hour, .

The Excellent Q serie is:

- Modular
- Compact
- Energy efficient
- Sustainable OPEX



NOS Q and XL Serie

The XL serie ozone generator is designed for the larger applications, up to 1000 gram ozone per hour.

The XL serie is:

- Modular
- Compact
- The most efficient system in the world
- Unique control system

