



Oxy-Gen^{Plus}

Generation of Chlorine Dioxide

For years, chlorine-free chlorine dioxide, produced through the acid chlorite process, is employed for a fail-safe and economical disinfection of drinking and processing water.

Due to its better reactive behavior in comparison to chlorine, chlorine dioxide is a markedly more ecological solution.

As chlorine dioxide does not form chlorophenols or trihalomethanes with organic substances, a riskless application is possible as far as sensory and toxicologic aspects are concerned.

Chlorine dioxide is a highly reactive biocide, which, for physical reasons, cannot be stored and consequently has to be produced strictly dependent on demand at the site of its application. After the production of chlorine dioxide, it is transported with transporting water into the buffer tank. From there, the relevant metering points are served with the aid of diaphragm metering pumps.



Advantages:

- ▲ Capacities of 55 g, 170 g and 290 g ClO₂/h
- ▲ Different withdrawal rates possible because of intermediate storage in buffer tank
- ▲ Exact metered addition of the acid and chlorite component through metering rate regulation
- ▲ Reaction in gas-tightly sealed reactor
- ▲ Automatic additional production of chlorine dioxide when its amount falls short of the minimum level in the buffer tank
- ▲ Easily operable control unit for monitoring the safety devices, the buffer tank levels and the alarm signals of the generating pumps and withdrawal pumps
- ▲ Simple addition of further metering points or consumers
- ▲ Flexible setting of the required concentration for different applications

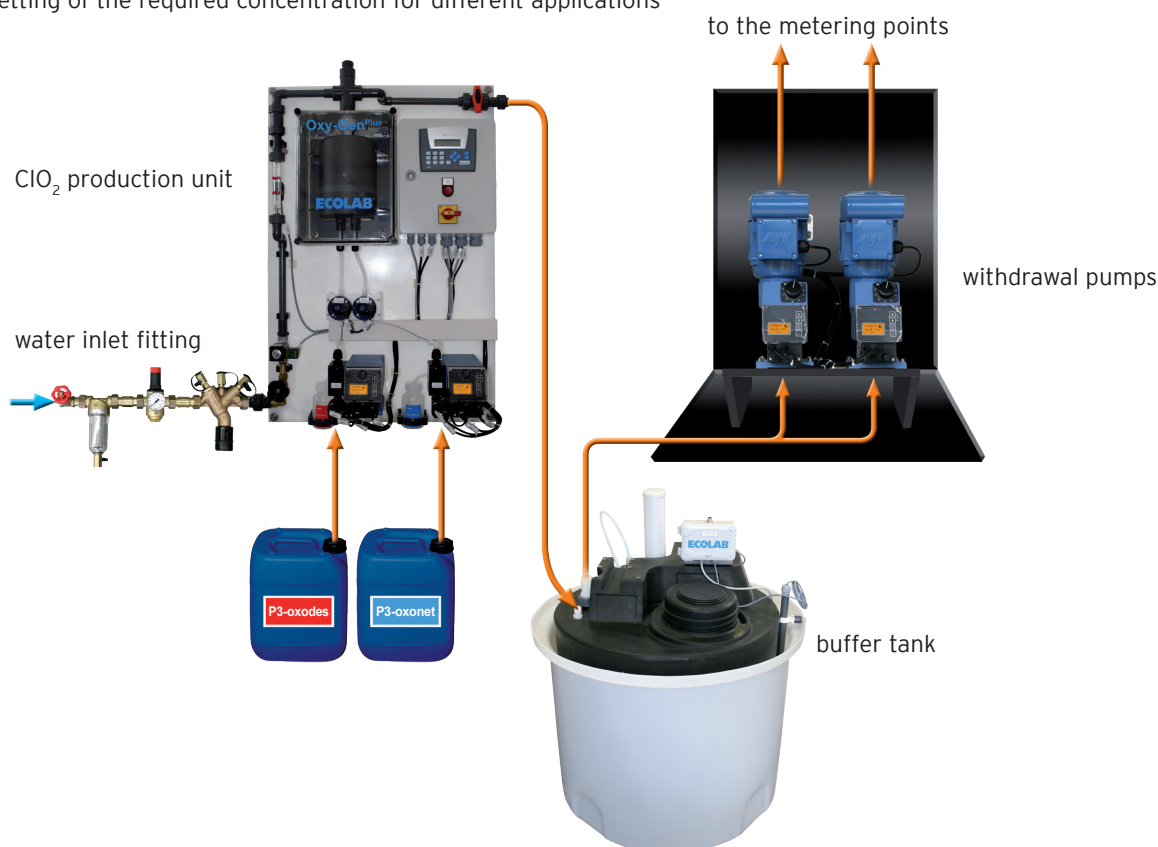
Optionally available:



measuring unit for monitoring the chlorine dioxide content



gas alarm device



Technical data:

Device design type	Oxy-Gen ^{Plus} 55	Oxy-Gen ^{Plus} 170	Oxy-Gen ^{Plus} 290
max. volume of chlorine dioxide	55 g/h	170 g/h	290 g/h
min. volumetric flow of transporting water	100 l/h	100 l/h	125 l/h
max. volumetric flow of transporting water	350 l/h	500 l/h	500 l/h
transporting water pressure	2 bar constant		
min. ClO ₂ concentration in transporting water	150 ppm	150 ppm	350 ppm
max. ClO ₂ concentration in transporting water	550 ppm	1700 ppm	1700 ppm
standard supply voltage	230 V / 50 Hz		
transporting water tube	DN 15, ½", Ms		
dimensions (H x W x D)	980 x 660 x 350 mm		1210 x 980 x 350 mm