

The PPO₃ range is designed for small to medium scale industrial ozone applications. The design of this product range is based on feedback from operators and the proven triogen's technology for highly reliable ozone generators.

INDUSTRIAL APPLICATIONS

- Aquaculture
- Bottling water
- Effluent treatment
- Water re-use
- Food and Beverage

MAIN CHARACTERISTICS

- Advanced technology
- Fully assembled and tested
- Compact dimensions
- Fully integrated PLC
- High reliability

MAIN FEATURES

- Ozone production rate of 20 g/h from oxygen
- Robust industrial quality to ensure reliability and long service life
- Easily integrated within existing systems
- Compact dimensions
- Optional feed gas preparation
- Low maintenance

HOW IT WORKS

Ozone, the triatomic form of oxygen, is generated by recombining oxygen atoms with oxygen molecules. This process takes place in the gap between the dielectric layer on the high voltage electrode and an earth electrode in the ozone generator. When high voltage is applied to this arrangement a silent electrical discharge occurs in the gap which excites the oxygen molecules in the feed gas flowing through the gap which causes them to split and combine with other oxygen molecules to form ozone.

PRODUCT HIGHLIGHTS

- Efficient and reliable generation of ozone
- No by-products formed
- User friendly
- Optional feed gas preparation system
- Low maintenance requirement
- Air cooled
- Easily integrated



TECHNOLOGY

The PPO₃ range is triogen's new development of positive pressure ozone generators for small to medium scale industrial applications. A PPO₃ unit consists of the ozone generation module, power supply and high voltage medium frequency supply to the module, control systems, process related control equipment and interconnections, safety features and colling system. The PLC ensures flexible operation and allows easy integration into all types of plant concepts.

OZONE OUTPUT CAPACITY

- 20 g/hour of ozone at 6L/min oxygen gas flowrate

DIMENSIONS

- 600x600x200 mm (LxHxW)
- Weight - approx. 35kg

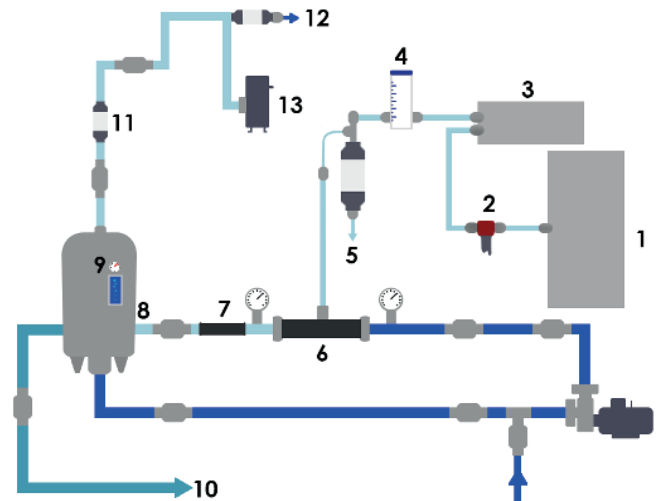
TECHNICAL FEATURES

- Voltage 230/240 VAC +-10%
- Frequency: 50/60 Hz
- Ambient temperature: +5 ... 40°C
- Design altitude: <2000 m.a.s.l.
- Humidity: RH<65% (yearly average)
- Feed gas inlet pressure (from oxygen concentrator): 12 psi

REMOTE CONTROLS AND SIGNALS

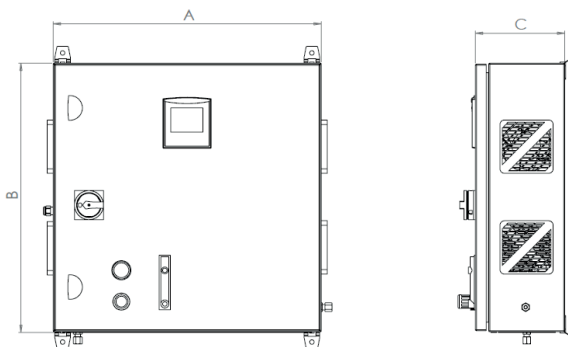
- Ozone ON/OFF
- Ozone output control (4-20 mA)
- Fault indication
- Remote start/stop
- Optional Ethernet Connectivity

TYPICAL INDUSTRIAL OZONE APPLICATION



Item description

- | | | |
|------------------------|---------------------------|-----------------|
| 1. Oxygen Concentrator | 8. Contact Tank | 14. Water Input |
| 2. Filter | 9. Measuring Device | |
| 3. Ozone Generator | 10. Ozonated Water | |
| 4. Flowmeter | 11. Valve | |
| 5. To Drain | 12. To Drain | |
| 6. Venturi Injector | 13. Vent Ozone Destructor | |
| 7. Static Mixer | | |



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