



# AIRTECK 10 GEX

## Industrial injection ozone generator User Manual

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## Unit Overview



The AirTeck 10GEX trioxxygen generator unit, is similar in functionality to the 64gex slim but has been designed for use in smaller establishments. The unit is installed between the extraction point and the exhaust fan, external to the ductwork, making servicing and maintenance much easier.

The unit eliminates smells by oxidising pathogens in the exhaust pipes and also prevents the build-up of residue in the ductwork, preventing failures in fans and fire hazards.

Maximum Power Requirement	109W
Voltage	Single Phase 240 V
Rated Current	0.47A
Fuse rating	1 A
Mains Frequency	50/60 Hz
Weight	~13.6kg
Dimensions (depth x width x height)	370mm x 370mm x 150mm
Reactor	10 grams / hour
Air flow rate	Up to 10 l/m

## Safety Considerations

### Effects of ozone

- Low concentrations of ozone have a significant effect upon textiles, fabrics, organic dyes, metals, plastics and paints and cause the characteristic cracking of stressed rubber, commonly called “weathering”. A few substances, however, are resistant to the oxidising effect of ozone and these include glass and some stainless steels.
- The acute toxicity of ozone to man has long been recognised and is well documented. Ozone is irritant to eyes and respiratory tract.

### Exposure limits

- The Health and Safety at work etc Act 1974 requires every employer to ensure, so far as is reasonably practicable, the health of all his employees and others who may be affected by the work he undertakes. The Act also places duties in respect of health and safety matters on the self-employed. The Factories Act 1961 requires factory occupiers to take all practicable measures to protect employed persons against inhalation of fume. The general policy adopted by the Health and Safety Executive is that exposure to hazardous substances should be kept at low as is reasonably practicable and in any case, exposure should be kept within published standards by the application of engineering controls or other suitable control techniques. The Health and Safety Executive publishes, in guidance notes in the RH series, information on exposure limits applied in the UK.
- The recommended exposure limit for ozone is 0.1ppm (0.2mg/m<sup>3</sup>) calculated as an 8- hour time-weighted average concentration. There is also a short-term exposure limit for ozone of 0.3ppm (0.6mg/m<sup>3</sup>) calculated as a 15-minute time-weighted average concentration.
- These are only guidelines as the legislation related to ozone and exposure limits is not clear. It is only a guideline and nothing more.
- We make every attempt as a business to ensure the safety of our employees, consultants and customers. **For further information on our monitoring and for other safety concerns please contact our office on: +44 (0) 208 150 6222**

## Mode of Operation

- The power to the units can be turned on/off using the green power button on the back of the unit.
- The light in the green power button indicates that the unit is powered.
- The green light on the top of the unit indicates that the ozone reactor is running.
- The interlock plug can be used to connect the unit to different control systems, such as timers, pressures switches and ozone sensors depending on applications.
- If the use of the interlock is not needed, the provided interlock override plug needs to be installed in the interlock plug on the back of the unit.