

Odour Control

UAS Recommend

United Air Specialists Smog-Hog® Systems utilizes proven, Effective and sustainable technologies for kitchen emissions and odour control..

The most proven and safe method of odour control is by the use of Activated Carbon Modules (sized for the system airflow) after the Smog-Hog® ESP.

Why don't UAS use Ozone Generators for odour control :

- Ozone is dangerous to health and safety following is what NSW Health have to say about Ozone and Ozone Generators.

Introduction

Ozone generators are being promoted as an effective method to clean indoor air pollution and odours. However ozone is associated with adverse health effects.

Available scientific evidence shows that ozone concentrations that are safe to breathe are unlikely to be effective in controlling indoor air pollution.

Manufacturers and vendors of ozone devices use a variety terms to describe ozone. Terms such as "energized oxygen" or "pure air" suggest that ozone is a "healthy" kind of oxygen. However, ozone is a toxic gas with very different properties to oxygen. Whether it is a pure form or mixed with other chemicals, ozone can be harmful to health.

Ozone: Good up high, bad nearby

Ozone, O₃, is composed of three atoms of oxygen. Two atoms of oxygen form the basic oxygen molecule. The additional third atom makes ozone an unstable, highly reactive gas. The ozone layer in the upper atmosphere helps filter out damaging ultraviolet radiation from the sun, but ozone in the air we breathe

breathe is irritative to the eye, nose, throat and lungs and can have a significant negative impact on health.

These proven adverse health effects have resulted in the Australian Government setting standards for ozone in outdoor air.

What does an ozone generator do?

An ozone generator is a device designed to produce the gas ozone. Ozone is used effectively in water purification, but ozone in air must reach high levels to remove air pollutants

Health experts warn that it is important to control conditions to ensure that no person or pet becomes exposed to high levels of ozone. Ozone also masks the odour of some pollutants by impairing a person's sense of smell.

Further, ozone is not effective for killing bacteria or mould in materials such as air conditioning duct lining and ceiling tiles.

Risks of using ozone generators

Some people are more susceptible than others and may be more likely to experience adverse health effects. People at particular risk are children, the elderly and people with asthma.

Exposure to ozone:

- can cause eye, nose, throat and lung irritation, cough and shortness of breath
- may exacerbate chronic respiratory diseases such as asthma
- is likely to increase hospital admissions and emergency room visits for respiratory disease
- can also adversely affect indoor plants, and damage materials such as rubber, electrical wire coatings, and fabrics."

(extract from NSW Health Fact Sheet Ozone Generators dated 7th July 2012).

Ozone Retention Time

Retention time (2 sec minimum) is important for ozone to neutralise odour therefore long duct runs are required to achieve this.

Ozone Generators Interlocked with Fan

Ozone Generators are normally interlocked with the fan and operate when the fan is turned on with no consideration given to the odour load on the system so you can have situations where maximum ozone is produced and no odour load to neutralise.

Carbon filters to remove residual ozone

Some Ozone Generator manufacturers recommend the installation of Carbon filters to remove residual ozone when the system is not operating at full load.

Warranty.

All Smog-Hog® ESP machines are warranted against manufacturing faults for 12 months from installation. All Power Packs are warranted against failure for 12 months from installation