

# Guaranteed Odour and Bacteria Control

## THE SOLUTION TO OFFENSIVE ODOURS

- Eliminate offensive odours
- Cut odour complaints
- Reduce bioaerosols
- Control against infections
- Protect & upgrade permits
- Comply with regulations
- Reduce chemical usage
- Improve staff working environment
- Lower absenteeism



# Cost effective odour management solutions for the toughest environments

Fortress Air offers proven unparalleled odour and microbial control technology to the waste management sector, as well as various other high odour industries.

**Offering a modern solution for odour control in Materials Recycling Facilities, Anaerobic Digesters, Waste Transfer Stations, and many more...**

Initially designed as a medical product, the technology has been adapted to provide efficient odour control in the toughest environments, whilst still reducing the risks from bioaerosols and surface bacteria 24/7. AIRsteril offers the latest technology to eliminate odours and improve the quality of air. Odour issues have been successfully eradicated on all sites where AIRsteril has been installed, from the largest waste transfer stations (over 10,000m<sup>2</sup>) down to individual anaerobic digesters.

Fragrances only mask odours, they **DO NOT** kill odours or their source. Most odours from waste are created by bacteria and Volatile Organic Compounds (VOCs). Existing odour control systems are expensive to install and maintain, and fogging offers a temporary solutions at best.

AIRsteril by Fortress Air eliminates odours at the source by killing odour-causing bacteria and removing odour causing VOCs

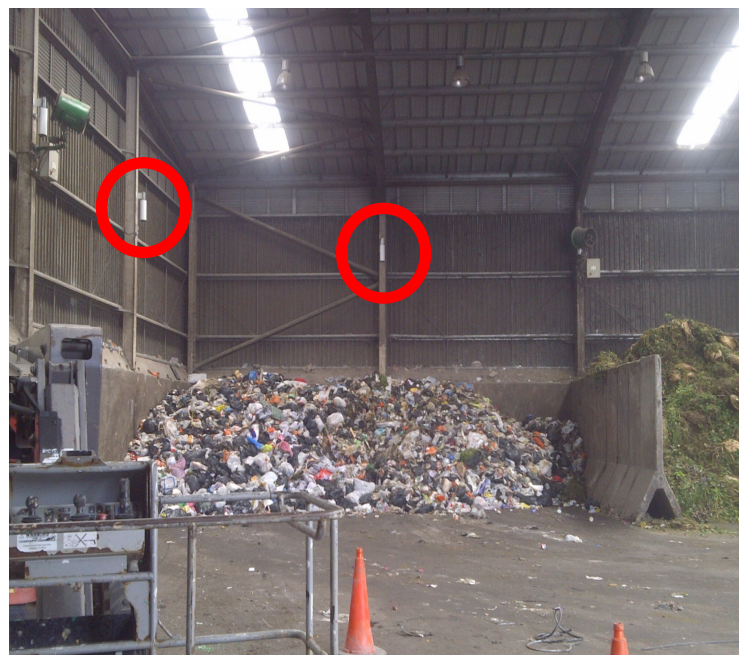
**Waste transfer, processing and re-cycling activity create odours, the primary reason you need a permit for an odour management plan**

AIRsteril solution has resolved many issues with odour complaints and prevented customers being exposed to the risk of fines. Customer feedback has shown in many cases the neighbours actually found masking fragrances more of an issue than the original odour which is why we are now getting increased demand to install complete systems at the front end.

## Independently Tested

Our technology is proven to reduce both odours and the bacteria which cause them.

- Testing performed by:
  - SGS Laboratories.
  - The Health Protection Agency (now part of Public Health England).
  - Odournet.
- Average of 78% odour reduction inside containment building
- Over 98% reduction in specific airborne bacteria
- Over 99% reduction in total bacteria count



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# Ground Breaking Technology

A unique combination of internal and external technology, each part can be individually adjusted to create tailor-made solutions and superior odour elimination.

## Ions

Ion molecules carry a positive or negative charge. They are formed when air molecules are split by sunlight radiation or the movement of air and water. Ions are attracted to and attach to other molecules such as bacteria making them too heavy to remain airborne and eventually drop out of the air.

## Hydroxyls

Hydroxyls are known as mother nature's detergent.

Hydroxyl radicals are formed when water molecules loses hydrogen atoms and become unbalanced. To restore balance, the hydroxyl molecule seeks chemicals and pathogens in the environment, acting as a donor molecule. Upon contact, the hydroxyl radical forcefully removes a hydrogen atom from the cell wall of the pathogen or chemical, causing it to break apart and become neutralised.

This process is lethal to pathogenic viruses and bacteria, making hydroxyl radicals a potent disinfectant. Once the process is complete, the hydroxyl molecule returns to its original state as a harmless water molecule (H<sub>2</sub>O). Unlike other disinfectants, hydroxyl radicals do not discriminate between different types of pathogens, attacking and killing them with equal effectiveness.



## Our product range

The most efficient and cost effective way to help you achieve superior standards in odour control.

### An extensive product range for a tailored solution

For further information about our wide range of AIRsteril units, designed to meet the challenges of air purification in virtually any internal space, please visit our website, [www.fortressair.com.au](http://www.fortressair.com.au).

Alternatively, with such a wide range of AIRsteril units available to meet any requirement, please call us to arrange a site visit to assess your specific needs.

Our professional advisors are trained to offer advice and recommend a cost-effective, workable solution. Call Fortress Air for an AIRsteril solution on 1300 933 220.



**Mega Thermal range**



**Multi Flex range**



**Mobile Multi Purpose**



**Ultimate Range**

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**For a FREE Site Survey,  
Consultation & Quotation**

Call 1300 933 220  
or email [info@fortressair.com.au](mailto:info@fortressair.com.au)

