

CleanaWater®

FiltaPro®



Odour Treatment Products


bulbeckgroup

About Us

About CleanaWater

With over 20 years of industry experience, CleanaWater are the experts in the design, manufacturing, installation and service of industrial and commercial odour treatment systems. CleanaWater is a part of the Bulbeck Group of companies, celebrating 70 years of supplying customers with high quality products. Bulbeck's head office is located in Newcastle, NSW Australia.

We believe in sustainability, innovation and service. These three tenets form the keystones of our professional philosophy, and drive our mission to build a sustainable future for Australia through odour treatment.

Since our foundation in 1996, we have worked hard in supplying and manufacturing technologies designed to help commercial and industrial businesses achieve cleaner air solutions. Through experience, we know that this sustainable approach to industry has the two-fold business benefits of long-term cost effectiveness as well as achieving authority and regulatory compliance.



Services

Design & Manufacturing

CleanaWater is located in a state-of-the-art factory in Newcastle NSW, using a combination of locally sourced fabricators and our own in-house facility to provide our customers with market leading systems and products.

We continue to expand our existing product range and bring to market odour treatment solutions that are purpose designed to make immediate cost savings and ensure our valued clients are compliant with authority regulations.

Installation

CleanaWater's packaged systems have been designed and refined to ensure that local tradesmen are able to complete hassle free installation. Complete documentation, manuals, diagrams and maintenance schedules are included with all systems supplied and are also uploaded onto our website resource centre for immediate access.

Service & Maintenance

Regular servicing of odour treatment systems will increase efficiency, prolong lifespan and also decrease the chances of future breakdowns and repairs.

Qualified technicians/partners will complete regular servicing and keep a log book, providing hassle free peace of mind to clients and their systems.

Odour authority audits may involve automated fines for not completing servicing in accordance with manufacturer's instructions. As a result the unserviced equipment may also be polluting the environment.



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Industrial Odour Treatment Specialists

FiltaPro Forced Extraction Carbon Filters



CleanaWater's carbon filters use activated carbon to capture hazardous gases and VOCs, reducing toxic odours by over 99%. Commercial activated carbon filters are considered one of the most reliable methods for removing hazardous and odorous substances. Economical and highly effective for use as a single-stage treatment, our carbon filters come skid mounted and are plug and play systems.



FiltaPro 350 FE

Maximum Flow Rate: 350 L/S

Dimensions: Height - 1805 mm
Width - 3367 mm
Depth - 1630 mm
Stack - 3100 mm

Overall Weight: 680 kg

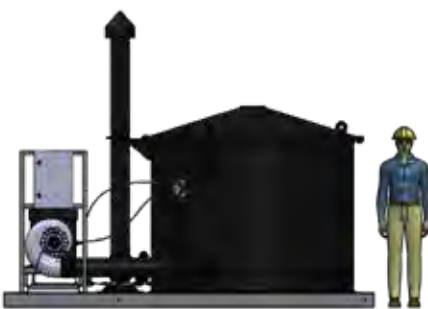


FiltaPro 550 FE

Maximum Flow Rate: 550 L/S

Dimensions: Height - 1925 mm
Width - 3636 mm
Depth - 2050 mm
Stack - 3100 mm

Overall Weight: 830 kg



FiltaPro 700 FE

Maximum Flow Rate: 700 L/S

Dimensions: Height - 1961 mm
Width - 3882 mm
Depth - 2330 mm
Stack - 3100 mm

Overall Weight: 915 kg



FiltaPro 900 FE

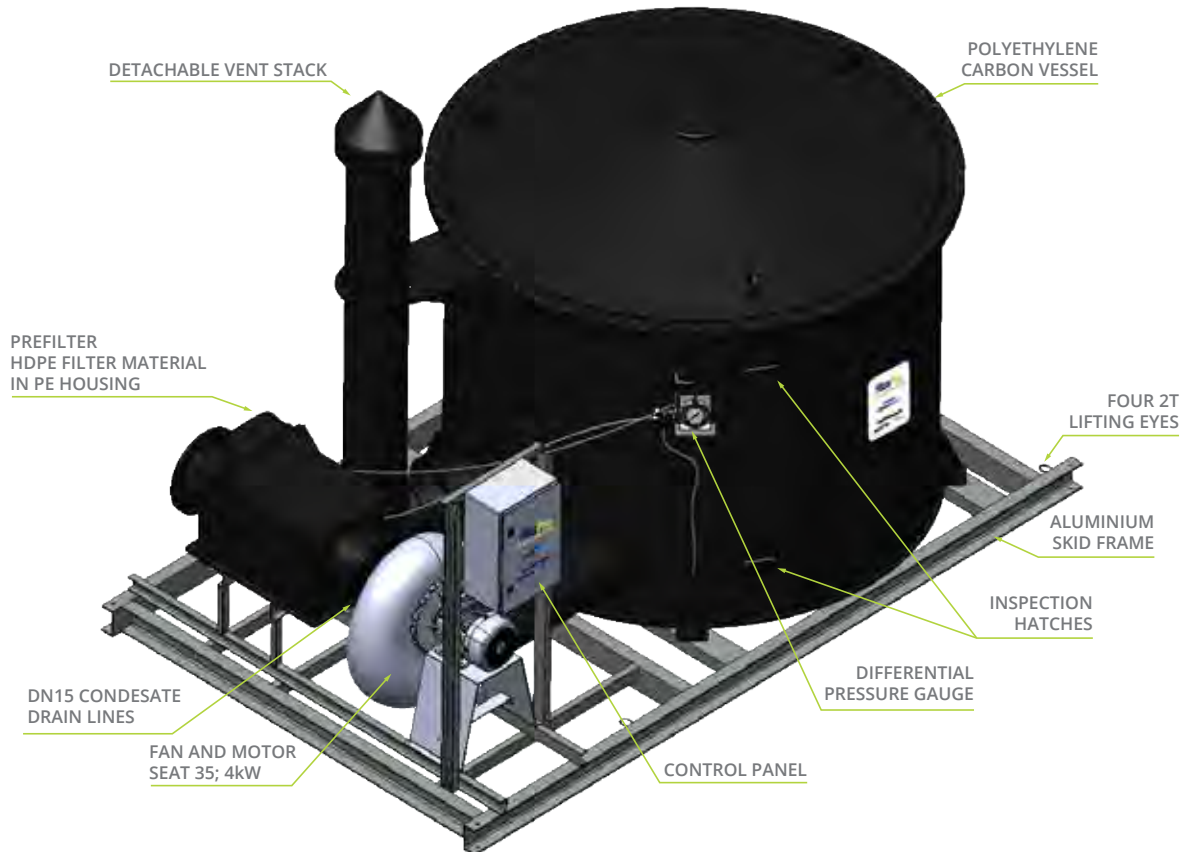
Maximum Flow Rate: 900 L/S

Dimensions: Height - 2158 mm
Width - 4128 mm
Depth - 2500 mm
Stack - 3100 mm

Overall Weight: 1155 kg

Detailed specification sheets are available, contact CleanaWater for more information.

Remove 99.5% of contaminants and odour causing emissions with a carbon filter.



Features and Benefits

- ☞ Easy to install plug and play system, which saves on install costs
- ☞ Skid mounted design
- ☞ Used on pump stations, inlet works, wastewater treatment plants, and manufacturing facilities
- ☞ Available in a range of sizes
- ☞ Treatment is continuous despite different flow rates and concentrations
- ☞ Processes a range of different organic contaminants
- ☞ Designed for harsh Australian conditions
- ☞ Easy carbon replacement

Fan assisted filters, also known as activated carbon filter systems, are skid mounted units suitable for use on pump stations, inlet works, wastewater treatment plants, and manufacturing facilities, and more. These filters are highly effective in odour treatment and are particularly effective at lowering odour levels. All our industrial fan-assisted filters come in a range of sizes to suit your infrastructure.

Many Australian councils and manufacturing facilities trust the proven technology of CleanaWater's activated carbon odour treatment for reliable odour control. With over 25 years of experience, we lead the market in the provision of odour treatment systems, and our carbon filter systems can be found in a wide range of businesses and industries across Australia.

Our thorough consultation process and excellent customer service ensure we understand your needs completely and can provide a cost-effective and low-maintenance odour solution to help manage your odour problems.

Economical and highly effective, our carbon filters eliminate odours across many industries.

CleanaWater's system design ensures that carbon exchanges are convenient and straightforward with carbon filter media that can be adapted to last from 12 months to 2 years, depending on your requirements. And, to ensure a longer product life expectancy, our commercial carbon filters are made from top-quality, durable materials and are highly resistant to corrosion.

For ease of use, our units are fully skid mounted, factory-tested and set up as plug and play arrangements. Plug and play systems makes installing the units easy but if you require assistance, the team at CleanaWater are happy to help and can be contacted to supply installation and commissioning.

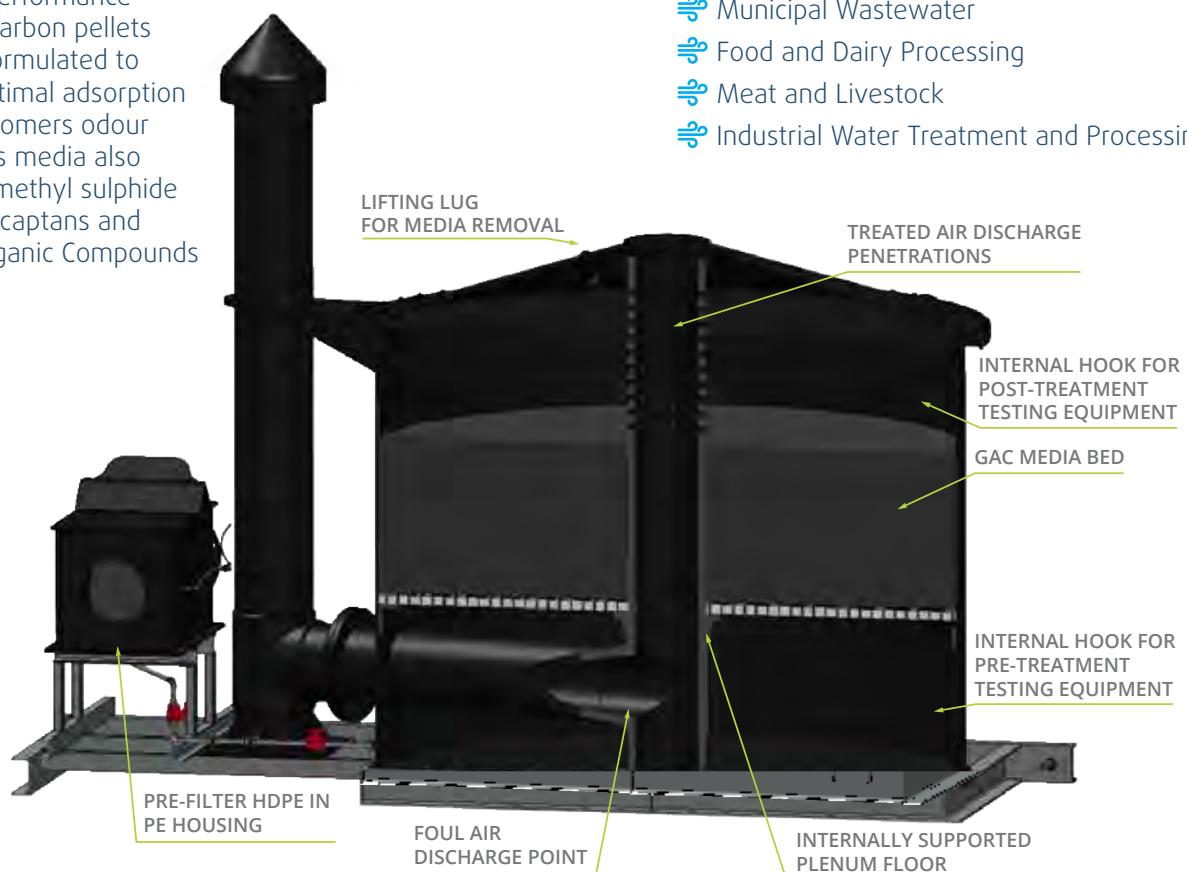
Our fan assisted filters are a single-stage treatment method for hazardous gases that use carbon adsorption technology. They work by extracting noxious gases from source matter using an extraction (blower) fan, which then sends the gases through the filter media. The noxious gases are first collected in the filter's lower plenum, then are adsorbed by the media in the filter bed. Finally, the activated carbon media is chemically pretreated to allow for 99.5% of hazardous gas removal.

How do they work?

CleanaWater's carbon filters use high-performance activated carbon pellets specially formulated to provide optimal adsorption to suit customers odour profile. This media also reduces dimethyl sulphide levels, mercaptans and Volatile Organic Compounds (VOCs).

Examples of Applicable Industries

- Manufacturing
- Municipal Wastewater
- Food and Dairy Processing
- Meat and Livestock
- Industrial Water Treatment and Processing



Dependable Odour Control

FiltaPro Passive Carbon Filters



Removing up to 99.5% of odours, even during the peak periods in the early mornings and late afternoons, our passive carbon filters are both economic and highly effective. Reduce your emissions quickly and conveniently with FiltaPro passive carbon filters.



FiltaPro 40

Maximum Flow Rate: 40 L/S / 120m³h

Construction: HDPE

Dimensions: Height - 880 mm
Length - 500 mm

Available in Models: Base entry, Side entry, Side entry – side exit (see FiltaPro's Stack Diverter range)



FiltaPro 80

Maximum Flow Rate: 80 L/S / 288m³h

Construction: HDPE

Dimensions: Height - 1395 mm
Length - 890 mm
Width - 480 mm

Available in Models: Base entry, Side entry, Side entry – side exit (see FiltaPro's Stack Diverter range)



FiltaPro 160

Maximum Flow Rate: 160 L/S / 576m³h

Construction: HDPE

Dimensions: Height - 1395 mm
Length - 890 mm
Width - 890 mm

Available in Models: Base entry, Side entry, Side entry – side exit (see FiltaPro's Stack Diverter range)

All units have a cartridge life expectancy of at least 12 month under what would be considered normal operating conditions, this may fluctuate due to odour level concentrations.

Stack Diverter Range

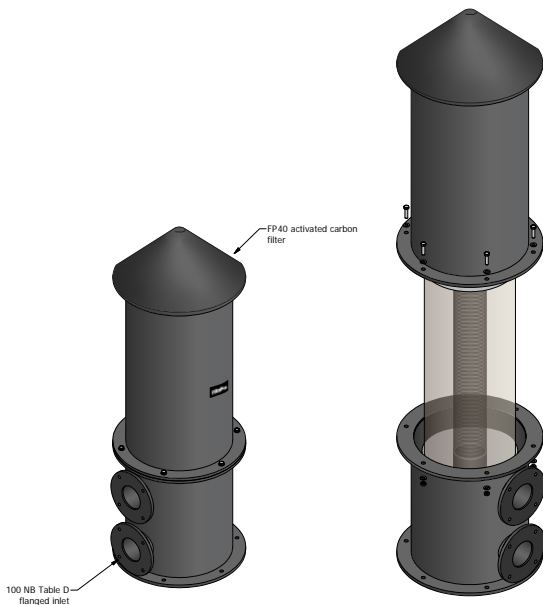
The FiltaPro passive range can easily be connected to one of our FiltaPro Stack Diverters, this allows odorous gasses to be treated at ground level avoiding the need for stack mounted odour control units and eliminating all fall from heights and OHS concerns during maintenance and media changes. Our stack diverters can be constructed to have a variety of Vent Stacks mounted to the Stack Diverter to suit your needs.



Detailed specification sheets are available, contact CleanaWater for more information.

Passive vent filters are designed to require very little maintenance, with no moving parts.

Activated carbon is the safest, most efficient technology for the removal of VOCs, airborne chemicals, gaseous pollutants, and other fumes and odours in industrial, municipal or commercial applications. We specially developed the blend of activated carbon inside our vent filters for its effectiveness in removing H₂S gases, mercaptans and other volatile organic compounds (VOCs).



Features and Benefits

- ⇒ Easy to install plug and play system
- ⇒ Can connect to external vent duct or stack
- ⇒ Up to 99.5% odour removal
- ⇒ Capacity variation to suit different needs (40-160Lps)
- ⇒ Allows air inflow into sewer system
- ⇒ Greater customisation with multi-cartridge options
- ⇒ Low cost per unit
- ⇒ Designed for the harsh Australian conditions
- ⇒ Replaceable cartridges for a solution that lasts

Passive vent filters work using cartridges full of high performance activated carbon to absorb and oxidise sewer gases. Low back pressure in the units encourages airflow. Passive vent filters can be used to treat H₂S, as well as dimethyl sulphide, mercaptans and volatile organic compounds (VOCs).

Passive vent filters are specially designed to require very little maintenance, with no moving parts. As a result, they are robust, securely assembled and appropriate for harsh environments.

With easy installation and a high odour removal rate of 99.5%, passive vent filters offer a low cost, long-term odour management intervention. Replaceable cartridges make equipment upkeep a breeze.

CleanaWater's passive vent filters are made to be UV corrosion resistant with High-Density Polyethylene (HDPE). The unit's lid is gasket sealed, attached to the vessel base and bolted securely.

Drawing on over 25+ years of experience in the industry, our expert team can advise you on the right vent filters to ensure compliance at your site, assist you with installation and even provide custom mixtures to suit your particular odour control requirements.

A Revolution in Airborne Odour Control

VapourGard™



CleanaWater's unique VapourGard™ system is more effective than fragrance and neutralising oils. That's because its active deodorisation technology destroys odour particles - rather than just masking them. The vapours stay airborne for longer than traditional sprays - allowing for more effective odour treatment.

Advantages of Vapour for Odour Treatment

- ☞ Deodoriser is delivered in lightweight particles, similar to the weight of the odours
- ☞ No water is needed
- ☞ Maintenance is minimal
- ☞ The deodoriser is unobtrusive
- ☞ The vaporisation system is relatively quiet, dry, and invisible
- ☞ Cost-effective to install and run
- ☞ Completely safe and environmentally friendly

Odours are compounds that have volatilised – transitioned to gaseous or vapour state. That is why we can smell them. We don't actually smell liquids or solids. We smell the portions of them that make the transition into the vapour state – making them light enough to travel in the air and into our nostrils.

The VapourGard™ System releases deodoriser converted to vapour form. The deodoriser vapour moves at the same speeds and in the same direction as odorous vapours. This allows the deodoriser to stay in the air for a much longer time, creating more opportunities for contact and deodorisation. The system uses a pipe to transport an air-stream filled with vaporised deodoriser around the perimeter of any area where deodorisation is desired. The type of pipe is determined by terrain and weather conditions.

The vapour is created by a unique system that moves air across a tank of deodoriser. The deodoriser is designed specifically to vaporise when subjected to air movement or minor turbulence. Heat is not used. The chemical is not "evaporated" in the normal sense of the word. The vaporiser unit contains only a motor and blower, a tank, and a vacuum system for creating the vapour and delivering it into the air-stream. While some heat is created by molecular vibration at the surface of the liquid, the amount is minimal. This allows vaporisation of the deodoriser without fractionation. The composition and functionality of the deodoriser are not compromised.

The ingredients are carefully designed to vaporise together, retaining their integrity. This is why heat is not used. Heating any blend of volatile ingredients results in a loss of integrity because each component will have a different evaporation rate and temperature threshold. Using heat to create vapour simply separates the deodoriser back into its component parts.

The deodoriser was created specifically for the process of vaporisation by turbulence. It contains no propellants or alcohols, and its component parts are all approved for cosmetic use or greater by the FDA. People use most of the components of VapourGard™ deodoriser every day in their homes.

How VapourGard™ Works

We start with a cationic surfactant, blend a set of amine groups with anionic surfactants, and create sets of amino complexes with a high reactive affinity toward certain odorous groups. Many of these complexes are amino hydroxyl groups that will react in contact with organic acids, mercaptans, and other reduced sulphur compounds. With mercaptans for example the sulphur/hydrogen (SH) bond is displaced through a series of ionic reactions and replaced with the sulphur/oxygen (SO) bond of an odourless sulphate.

Some reactions involve the conversion of organic and short-chain fatty acids to esters and simple alcohols. Some complexes trap and adsorb odorous compounds, others use opposing ionic charges to combine with or displace sections of the odorous molecule. Most of the reactions are induced by ionic charge or pH differences. It is very similar to the deodorants and shampoos each of us uses daily. It simply performs in the vapour state rather than the liquid state. The system provides an environmentally and personally safe deodorisation method while conserving water and energy.

VapourGard™ Construction

Our vapour systems consist of a blower, solution storage tank, piping and an electrical control box with an electronic level gauge. VapourGard™ systems are set up on the boundary of the facility, with holed tubing allowing the release of vapour into the air.

They come in a range of sizes to treat outdoor areas as large as 500 linear metres or 150 lineal metres suitable for indoor facilities.

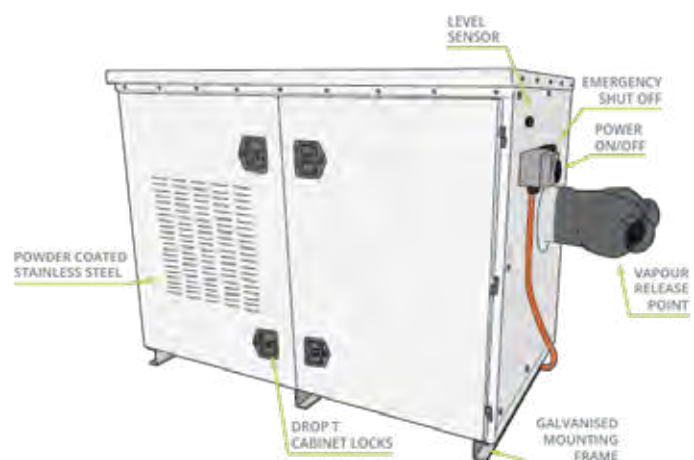
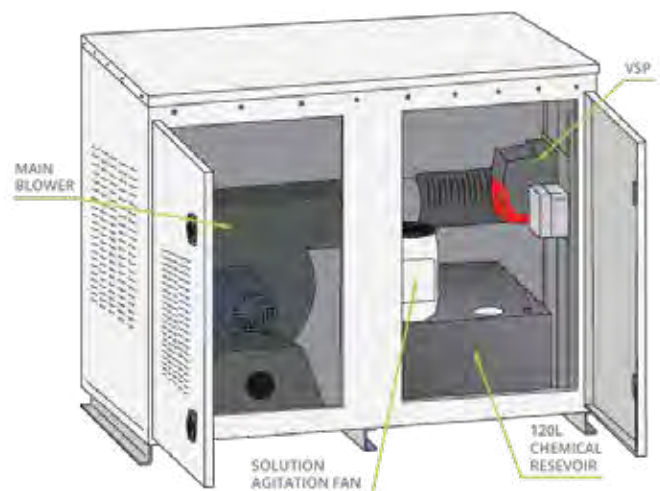
The power supply requirements for the VapourGard™ 150 are a single phase 240Vac while the VapourGard™ 500 requires a 3-phase 415Vac power supply.

Vapour formulation

The odour vaporising solution QuikAir 0900V is made up of an ester, a ketone and a cineole, with citric acid and 14 amino sucroates. This formulation has been proven to be effective on all commonly encountered types of odours. While the amino sucroates work as catalysts in the solution, the ester, ketone, acid and cineole preserve, disinfect and prevent bacterial growth in the system.

Optional accessories

Optional accessories for these vapour systems include operational triggers - including timers, atmospheric conditions and remote tank level monitoring to ensure adequate vapour solution levels.



Benefits to clients

CleanaWater's vapour systems are the lowest maintenance odour control products on the market. There are no nozzles to become blocked, and no portable water supply is needed. The active ingredients get to the very cause of odours, eliminating the particles. Our vapour systems are suited to large indoor and outdoor applications, especially effective on-site boundaries, aiding compliance with WHS and environmental regulations and eradicating odour complaints. The versatile design also helps you manage any site demands.

Uses and applications

- Elimination of indoor and outdoor odours
- Large factories
- Processing facilities
- On-site perimeters
- Solid waste facilities
- Recycling facilities
- Waste processing and transfer stations

Odour Control at Lucas Heights Resource Recovery Park with VapourGard™

About Lucas Heights Resource Recovery Park

Located in Lucas Heights, Sydney, NSW, the Lucas Heights Resource Recovery Park is one of Australia's largest operating waste processing facilities, with its Renewable Energy Smart Cell® technology and additional ORRF organics facility processing over 625,000 tonnes of waste per year.

The problem

As the facility expanded and increased capacity the surrounding suburbs also became larger and the facility has begun to encroach on densely populated residential and industrial zones. By the year 2018 complaints had become a regular occurrence, and regulatory authorities had issued the site with notices requiring them to take action and reduce the amount of diffuse odours that were being released by the facility.

Our solution

Quite rapidly the situation escalated and the facility operators engaged CleanaWater's Odour Control Department to assist in coming up with a solution to ensure the facility could continue to operate while mitigating complaints from surrounding residents and businesses.

Initial enquiries from landfill management were for traditional misting systems that atomise diluted odour neutralisers into the air, although these systems can sometimes still be useful, due to the size of the operation and the importance of Select Civil, who manage the SUEZ owned facility, getting a comprehensive solution, CleanaWater recommended the facility managers take a different approach. That approach is a new technology rapidly gaining popularity in the US and Europe using vapour based neutralisers rather than atomised water-based solutions.



What we did for our client

In the summer of 2018, CleanaWater installed two VapourGard™ VG 500 systems around the boundary of the active waste cells, using our QuikAir® 0900V vapourising odour neutralising solution. Combined, the 2 systems provided the Lucas Heights facility with 1 kilometre of diffuser pipe to install between the active waste cells and the complaining constituents, which constantly releases vapourised QuikAir® 0900V into the atmosphere.

The outcome

Since installation, complaints all but ceased, and reports from operations have confirmed that odours are now minimal, noticing a substantial improvement in the air quality, even within the site premises.

The results were;

- ☞ Expert management of odour emissions
- ☞ Elimination of business and resident complaints
- ☞ Environmental regulation compliance
- ☞ Increased community approval

More Effective Than Misting Systems	✓
Economical	✓
Low Maintenance	✓
Odour Removal	90 - 100%

Why use VapourGard™

The theory behind these systems is simple: if you want to catch or treat an airborne odour, you have to use a vapour. Water-based particles are simply too heavy to stay in the air long enough and the systems that release these solutions are maintenance heavy and at times unreliable. VapourGard™ solves these issues as the vapour produced with our specialised QuikAir® V solutions, disperse at the same consistency as the surrounding air, giving the active ingredients more time and opportunity to break down the odorous air and turn them into non-volatile and non-odorous compounds.

In addition, this also led to regulatory authorities being satisfied that Select Civil had taken a very proactive and effective approach to solve their issue and operations have continued uninterrupted for the past 3 years.

CleanaWater remains committed to maintaining a cooperative relationship with Select Civil, ensuring the systems installed have all compensatory and chemical to be operational 24/7, 365 days a week. CleanaWater is also very proud of our continued involvement in the SUEZ owned Select Civil managed operation of which produces enough renewable energy to power over 47,000 homes a year.



"We have seen a fantastic improvement since the VapourGard™ system was installed 3 years ago. The system mitigates the heavy odours which are released from the site, which has improved conditions for our staff and almost completely eliminated complaints from local residents and businesses."

Glenn Claverie, Lucas Heights Landfill - Site Manager, Select Civil

The VapourGard™ Difference

- ☞ Vapour not water based neutralisers
- ☞ Minimal Maintenance
- ☞ No potable water supply needed for operation
- ☞ No blocked nozzles or nozzle replacement
- ☞ No spray means no airborne moisture or residue
- ☞ Fully automated system capabilities
- ☞ Vapourisation not atomisation
- ☞ Destroys odours, doesn't cover or mask them
- ☞ Suitable for large or small facilities
- ☞ Economical running costs
- ☞ No more odours means no more complaints

"The VapourGard™ system is a great alternative to the other odour suppression systems out there. The unit is easy to use and maintain, does not need a portable water source to dilute the chemical and has a low chemical usage which cuts down on cost."

Nicholas Bhugon, Compliance Officer, SITA Australia

Basic Chemistry of QuikAir 0900V Vapourising Solutions

The product contains a blend including an ester, a ketone and cineole, as well as citric acid and 14 distinct amino sucroates (amino groups attached to a sugar/carbohydrate). It has been formulated to work in air phase on all commonly known groups of odorants.

The ester, the ketone, the acid, and the cineole are used as preservatives, disinfectants, and help to discourage the growth of bacteria in the tank. These are all FDA and EPA approved for skin contact and inhalation and are used in many medicinal and cosmetic products and applications. They have been selected to avoid the commonly used products such as alkyl ammonium chloride and other quaternary ammonium compounds typically found in deodorizers.

The amino sucroate components are all either cosmetic, food, or medicinal grade and are also approved. Each amino sucroate is chosen based on the general molecular shape, stability, and reactivity of the specific amino/carbohydrate combination. Because of their specific shapes they are able to act as catalysts in the breakdown of odorous compounds much as enzymes do, but with none of the concerns or problems associated with the use of actual enzymes found in misting technologies.



Effective Odour Management

Chemical Dosing Systems



Ferrous Dosing for Targeted H₂S Removal

Get rid of up to 95% of odours with CleanaWater chemical dosing systems

Features and Benefits

- ☞ H₂S and VOC Reduction
- ☞ Proven Technology
- ☞ Corrosion Reduction
- ☞ Asset Protection
- ☞ Custom Design
- ☞ Maintenance Programs
- ☞ Simple Process
- ☞ Cost Effective
- ☞ Versatile Odour Control
- ☞ Scada Compatible

CleanaWater is Australia's industry leader in comprehensive odour control and management, with a variety of chemical dosing systems available. The double benefit of reducing toxic gas emissions as well as corrosion to wastewater facilities makes chemical dosing a popular option for odour management.

We supply, install and maintain Ferrogard dosing systems. Liquid dosing is a proven and effective way to control H₂S to reduce odour and corrosion. Ferrous Chloride works to break down sewage odour by reducing the formation of H₂S gas. Our dosing systems are tailored to customer needs.

Application

Precision targeting of ferrous dosing for odour and corrosion control is well proven. Ferrogard dosing system facilitates efficient application. Automated dosing units range from 500L to 25,000L managing single pump stations or entire catchments.

How can Ferrogard dosing be introduced into my system?

Ferrogard dosing can be introduced to your system in a variety of ways. Controls can be designed to suit customer requirements. The most effective way of introducing Ferrogard dosing into a sewer system is by dosing directly into the rising main. Rising main dosing allows for the dose rate to be regulated by the sewer flow.

Dosing mechanisms can be controlled by either a direct connection between the CleanaWater dosing pump controls and the sewer pump or by utilising an in-line flow meter to communicate to the CleanaWater dosing controls (commonly used for pressure sewer systems).

How does Ferrogard dosing work?

Most sewer odour problems are caused by the presence of hydrogen sulphide (H₂S) gas. This is formed by the anaerobic breakdown of sulphates in solution to form sulphides. These sulphides then become available to bond with hydrogen to become H₂S gas.

Ferrous Chloride (Fe²⁺) reduces sewage odour by reducing the formation of H₂S gas. As sulphides are released into solution the Iron (Fe²⁺) in the ferrous chloride solution immediately binds to the sulphide and removes it from solution by forming an insoluble precipitate. This reaction is irreversible and dramatically reduces the formation of odorous sulphur based compounds.

System inclusions

- ☞ Dosing Pump
- ☞ Programmable PLC Control
- ☞ High/low Pressure Cut Out
- ☞ SMS Alarm
- ☞ Anti-siphoning Protection
- ☞ Calibration Cylinder
- ☞ Safety Shower and Eye Wash
- ☞ Chemical Proof Tank and Bund

Benefits to clients

Unlike capture and treat strategies, our Ferrogard® ferrous dosing units prevent the formation of odours, thereby properly treating the cause of the problem for a sustainable long-term solution.

Our ferrous dosing systems don't just control odours by up to 95%, they also play a crucial part in wastewater system maintenance, by preventing H₂S corrosion of infrastructure, while also keeping your workers safe from gases and complying with Workplace Health and Safety (WHS) Regulations.

Chemical Supply Logistics

Ferrous Chloride, Ferric Chloride, and Micro-nutrient treatment is available.

Two dedicated delivery vehicles can supply chemicals ranging from 6,000L capacity to 12,500L capacity. Our knowledgeable chemical delivery drivers cover all the logistics, OHS and environmental compliance.

Media / Odour Neutralisers / Additives Supply

CleanaWater have access to a wide range of GAC (granular activated carbon) and chemical additives to treat a variety of odorous compounds to suit an assortment of applications. We source only the best quality Activated Carbons and can assist with the removal and disposal of old spent media with replacement by our qualified technicians. Our activated carbons can be packaged to suit our clients needs in either 20-25kg bags for easy handling or bulk bags of 500kg can be supplied for larger applications.

CleanaWater also specialise in liquid and air phase odour treatment and control and with our experience and expertise can recommend a solution to effectively treat and neutralise odours in the liquid or vapour state.

- ☞ Activated Carbon packaged 20-25kg bags
- ☞ Activated Carbon 500kg Bulk bags
- ☞ QuikAir 0900 (broad spectrum odour neutraliser)
- ☞ BioStreme 201 Micro Nutrient Additives
- ☞ QuikAir 0900V (Vapourising solution to be used in conjunction with CleanaWater VapourGard Systems)
- ☞ Bektra 830F (foaming contact deodoriser)



How do they work?

A bio-chemical reaction occurring in sewers produces Hydrogen Sulphide (H₂S), the gas responsible for "bad egg" odours. Dosing with ferrous chloride reduces odour by initialising a different chemical reaction. The ferrous chloride binds with sulphides in the wastewater to form a stable, insoluble precipitate.

Surface Odour Control

Bektra 830F



CleanaWater's Topical Odour Control, Bektra 830F, tackles odour at the source by combining several effective approaches for maximum performance in a convenient and environmentally responsible formulation.

Bektra 830F Foaming Odour Neutraliser Concentrate provides a convenient solution to manage surfaces where noxious odours are generated. It is applied with a foaming applicator to visibly coat problem surfaces. The penetrating foam soaks into garbage room floors, bins and other problem surfaces, allowing the micro-nutrients to direct the microbiology of the decomposing organic matter.

This topical formulation is an elegantly simple solution to odour problems originating from tipping floors, storage bins, and plant equipment surfaces. The foaming micro-nutrient blend can also provide effective visible coverage of lagoons and solid waste working faces.

Technical Profile

This product attacks odour in three ways. The foaming application visibly blankets the surface ensuring even distribution, the Bektra 830F micro-nutrient blend manages the odour-producing biological processes at their source, and a powerful contact deodoriser provides immediate odour relief for long term treatment.

Bektra 830F is a micro-nutrient formulation which employs a natural non-toxic and biodegradable blend of amino acids, essential oils, vitamins, minerals, purines, pyrimidines, and complex organic extracts that aid in organic decomposition without producing odorous by-products. It is completely safe to handle and use, and employs no enzymes, bacteria or hazardous chemicals.



Usage Instructions

Topical Spray Application	Apply directly to problem surfaces or waste materials using a foaming applicator gun
Application Rate	1 part concentrate to 33 parts water

Guidelines for calculating chemical usage are estimates only. Actual usage is affected by odour concentration, environmental temperature, particulate levels etc. Contact your CleanaWater representative to discuss your application.

Application Sites

- ☞ Landfill Sites
- ☞ Transfer Stations
- ☞ Compost Operations
- ☞ Recycling Centers
- ☞ Wastewater Facilities
- ☞ Commercial Properties
- ☞ Apartments and Hotels

Application Areas

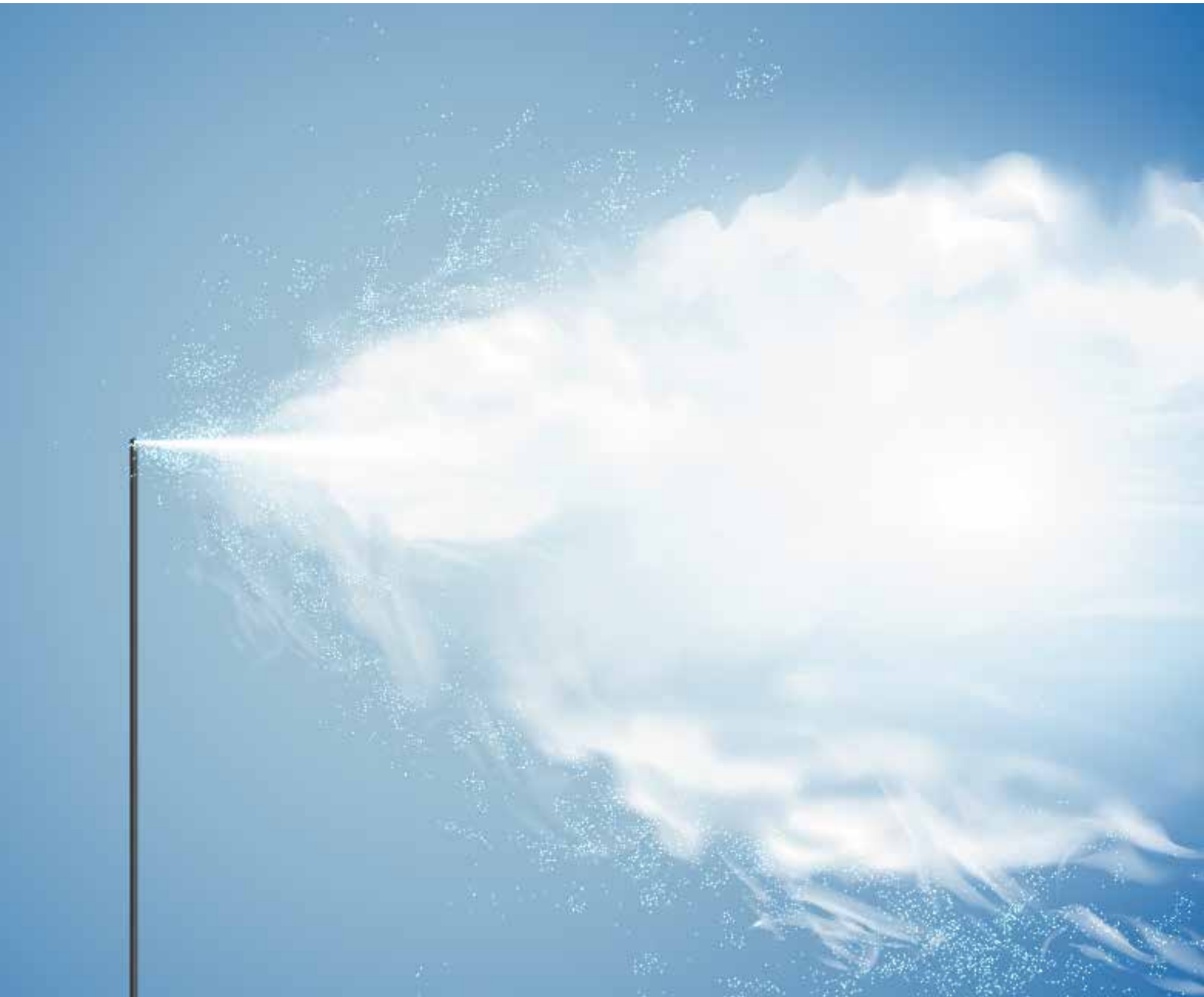
- ☞ Tipping floors and pits
- ☞ Weigh scales
- ☞ Tip faces
- ☞ Spoil piles
- ☞ Driveways and loading areas
- ☞ Garbage and compactor rooms
- ☞ Haulage vehicles
- ☞ Ponds/lagoons

Advantages

- ☞ Eliminates soaked-in odour sources
- ☞ Controls noxious odours
- ☞ Reduces clean-up time and costs
- ☞ Effective and long lasting
- ☞ Natural and biodegradable
- ☞ Safe and non toxic

Don't Just Cover Up Odours, Eliminate Them

Misting Systems



CleanaWater's misting systems effectively neutralise odours at the source - ideal where the source is diffuse. Essential oils and organic plant compounds convert odour molecules into non-volatile compounds - eradicating the chemical cause of odours.

Our range of odour neutralising systems combines state-of-the-art pneumatic and hydraulic delivery systems with odour neutralising products. These products have been developed over the past thirty years to reflect changes in industry needs. The delivery systems are durable, economical, performance driven, fully automated and offer exceptional quality.

The odour neutralising products are made from a complex blend of essential oils and odoriferous organic compounds found in plants. The odour removal process works through a variety of absorption and decomposition processes, converting odour molecules into non-volatile compounds. This process helps to reduce both the odour concentration and its intensity. All CleanaWater's AMS products are designed to be sprayed safely into the air. They are non-corrosive and non-toxic, making them ideal for a wide range of applications.

Our proprietary solutions designed to eliminate airborne and surface odours. All of our products are formulated using all natural organic compounds and essential oils, making them environmentally friendly and completely safe to use. Unlike simple masking agents, our misting odour neutralisers contain powerful odour neutralisers made from essential oils, surfactants and aromatics. Airborne droplets attract and neutralise odours through active chemical processes. These highly concentrated and widely versatile formulations are water soluble and non-toxic, making them ideal for use both indoors and out.



Types of Odours Treated

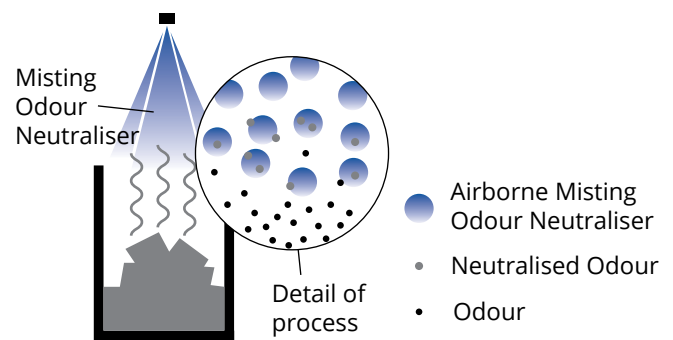
- ☞ Organic Sewage Odours
- ☞ Mercaptans
- ☞ Amine Compounds
- ☞ Phenol Odours
- ☞ Organic Acid Odours
- ☞ Grease Odours
- ☞ Low Level H₂S (open areas)

Average Feed Rate Guideline

Topical	Dilute RTU solution 100:1
Fogging Treatment	9ml to 15ml of RTU per nozzle per hour
In-duct Treatment	30ml of RTU per 43-85 m ³ per minute airflow per hour
Misting Treatment	1 x 20L drum of concentrate makes 2000L RTU

Product Specifications

QuikAir 0900 Counteractant is a complex blend of essential oils, odoriferous organic compounds found in plants. QuikAir 0900 works through the process of odour counteraction to reduce odour complaints. QuikAir 0900 is optimised to eliminate the odours created by wastewater treatment and collection systems and is a broad spectrum odour neutraliser.



CleanaWater®

HEAD OFFICE:

4 Channel Rd, Mayfield West NSW 2304

Free Call: 1800 353 788

Fax: 02 4952 8575

info@CleanaWater.com.au

CleanaWater.com.au