HIGH MOTIVE

Sterilisation Solutions

Stabalised Aqueous Ozone

Stabilised Aqueous Ozone is a powerful, natural sanitised cleaning solution which can be used for any surface or area and is more powerful than chlorine. Yet if it is spilt on clothes or skin there are no adverse effects.

The Lotus® Pro is a permanent fixture that is mounted onto the wall and connected to your power and water supply, enabling you to create Stabilised Aqueous Ozone whenever you need.

At the push of a button, cold water is automatically added to the stabilisation module compartment, which changes the mineral composition of the water. It is this process that allows the aqueous ozone to stay stabilised for longer. The water is then passed through to the main Lotus® Pro unit, where Oxygen and volts of electricity is added, converting O_2 into O_3. This creates Stabilised Aqueous Ozone.

The unit then dispenses the Stabilised Aqueous Ozone into mop buckets, floor scrubbers or spray bottles, providing you with a powerful sanitiser and cleaner for 4 or 24 hours, depending on your cartridge type. For the 4 hour cartridge type, it can produce 3000 litres of Stabilised Aqueous Ozone and for the 24 hour cartridge, it can produce 6000 litres.

While in this stabilised form the composition becomes highly effective, clinging to dirt, grime and bacteria, killing up to 99.999% of harmful contaminants. While it works to kill harmful contaminants on contact, unlike Steri-7 XTRA, Stabilised Aqueous Ozone does not provide any barrier to contamination after the Ozone has worked to sterilise the surface. So, if someone contacts the surface after the fact, it will not be deemed sterilised and will need to have Stabilised Aqueous Ozone reapplied.

Once the 4 or 24 hours are up, **it simply reverts to normal tap water**, and you can pour it away without any harm at all to the environment.

Sterilisation Solutions

Stabalised Aqueous Ozone

How You Use It

The Lotus® Pro SAO™ dispenser is simple to use and allows you to clean entire buildings using just one batch. No more storing, mixing, or disposing of traditional chemicals, you can create Stabilised Aqueous Ozone at the push of a button.

Switch on

Turn on the cold water source and push the 'on' button on the unit. Wait until 'System ready' green light is showing.

Fill up

You can now fill up spray bottles, buckets and floor scrubbers with SAO™ dispensed from the unit.

Clean

The SAO™ can be used for cleaning and sanitisation for between 4 and 24 hours, after which it returns to normal water and can be safely poured away.

Sterilisation Solutions

Stabalised Aqueous Ozone

Benefits of the Tersano Lotus® Pro

Environmentally sustainable

- SAO™ uses just tap water, electricity and oxygen, significantly reducing the number of chemicals entering our rivers, streams and groundwaters.
- As a reusable product, it reduces the amount of single-use plastic packaging likely to end up in our oceans.
- Fewer deliveries are required as you only need a cartridge replacement a few times per year.

Safe and harmless to people

- Safe for staff – non-toxic environment.
- Safe for clients, little exposure to chemicals (SDS 0-0-0).
- Converts safely back to o2.
- You do not have to store toxic chemicals onsite for industries such as schools or care homes.

Save thousands in cleaning costs

- Eliminates need to purchase multiple chemical products.
- As a reusable product, it only requires a replacement cartridge a few times per year (depending on how much it is used) so is extremely cost-effective.
- Between 50-80% in cost savings is normal for most businesses.

Kills 99.999% of harmful bacteria

- It has been proven in laboratories to be a highly powerful cleaner and sanitiser.
- Eliminates germs, odours, stains, mould and mildew.
- Quickly kills 99.999% of harmful viruses and bacteria including E. coli, Salmonella, *SARS*-CoV, COVID-19 and MRSA.

Practical and easy to implement

- Instant, on-demand production.
- Reduces need for cleaning product storage.
- As a non-toxic, non-hazardous product, no COSHH training is required.

Sterilisation Solutions

Steri-7 XTRA

Steri-7Xtra High Level Surface Disinfectant Cleaner has a reactive barrier technology to give protection between cleans. Kills 99.99% of Pathogens within seconds!

This reactive barrier technology means that unlike Ozone, it works continuously for 30 hours, meaning that if a person enters after the area has been cleaned then it will continue to provide sterilisation protection to the surface.

- 7th generation liquid micro emulsion polymeric matrix disinfectant cleaner
- Reactive Barrier Technology
- One stage process
- Ease of use
- Multi surface treatment
- Perfect balance between safety and efficacy
- Broad spectrum
- Tested and proven in the real world
- Rapid kill rate up to 99.99% in seconds
- BPR compliant

NOTE: THE HANDLING AND USE OF STERI-7 XTRA DOES REQUIRE THE USE OF PPE BUT RPE IS NOT NESSASARILY NEEDED.

Sterilisation Solution Applicators

Mains Supplied ULV Generator

The Mains Supplied ULV Generator has a powerful spray with ultra low volume particles that ensures a higher efficiency of the spraying substance in the desired area. It can be used for cleaning the internal area of locations such as an office, factories, educational institutions, toilets, religious institutions, hotel rooms, kitchens etc.

Another advantage of this device is that it allows the application or spraying of different chemicals: insecticides, fresheners, durable and nutritional supplements, antibiotics, bactericide and so on in several ways, including instant hydration by using water based or oil based solutions.

Due to its ultra low volume technology it allows for wide area to be covered in a short period of time and also reduces the amount of the solution required. The device has a good practical use, with a simple chemical replacement, being able to provide multiple actions.

Technical Features

- Motor Power - 1250W
- Tank Capacity - 3 Litres
- Spray Distance of 5-10 meters
- Power Source - 110V/240V
- Weight- 3Kg
- Wire Length - 6m

Sterilisation Solution Applicators

Battery Powered ULV Generator

The Battery Powered ULV Generator works in a similar fashion to the Mains Supplied ULV Generator as it has a powerful spray with ultra low volume particles that ensures a higher efficiency of the spraying substance in the desired area. It can be used for cleaning the internal area of locations such as an office, factories, educational institutions, toilets, religious institutions, hotel rooms, kitchens etc.

The advantage of the unit over the Mains Supplied ULV Generator comes in the use of rechargeable Lithium-ion battery to power the motor as this means the unit is free to be used in locations where no mains power, either 110V or 240V, is available.

The recharge time of the battery to full capacity is 3.5 hours and the operating time varies depending on the mode of use, with a run time of at least 60 minutes at full throttle.

Due to its ultra low volume technology it allows for wide area to be covered in a short period of time and also reduces the amount of the solution required. The device has a good practical use, with a simple chemical replacement, being able to provide multiple actions.

Technical Features

- Motor Power - 480W
- Tank Capacity - 3.3 Litres
- Spray Distance of 6-8 meters
- Power Source - Rechargeable Lithium-ion battery
- Weight– 4.6Kg

HIGH MOTIVE

Sterilisation Solution Applicators

Mini Fogger

The Mini Fogger is an ultra micro particle sprayer, with the power for the micro air pump coming from a rechargeable battery.

When the high pressure air made by the pump goes through the nozzle, it will take the disinfectant and also transfer it to atomized particles. This product doesn't make any waste gas, doesn't pollute environment, makes little noise, conserves energy.

Its lightweight and ergonomic design means it is easy to handle and use for long or short periods.

The application scenarios for this product are the food industry, the catering industry, the medical industry, education institutes, the hotel industry, the automobile industry etc.

Technical Features

- Motor Power - 35W
- Working time - 40 minutes
- Tank Capacity - 1 Litres
- Spray Distance of 2 meters
- Power Source - Rechargeable Lithium-ion battery
- Weight - 1.6Kg

NOTE: STRONG CORROSIVE LIQUIDS AND HIGH VISCOSITY LIQUIDS SHOULD NOT BE USED WITH THIS PRODUCT.

Sterilisation Solution Applicators

iClean™ Mini

The **iClean™ mini** turns tap water into a safe, effective cleaner and sanitizer that works stronger than bleach and hydrogen peroxide – without the hazardous odours or toxic chemical residues that come with traditional cleaning chemicals.

Simply fill the iClean™ mini with tap water, press the power button, and the iClean™ mini converts the water into a powerful oxidizer for on-demand cleaning anywhere, anytime.

- Ideal for home, office, or any commercial or industrial environment
- Absolutely safe for people, pets, and the planet
- Cleans without poisons, toxins, residues, or fumes
- Protects people with allergies or sensitive skin from the harsh effects of chemicals
- Clean virtually any surface in any environment
- SDS Rating = 0-0-0

NOTE: CLINICAL TRIALS HAVE SHOWN THAT THE ICLEAN™ MINI IS ONLY 80% AS POWERFUL AS THE STABALISED AQUEOUS OZONE PRODUCED BY THE LOTUS® PRO.

Sterilisation Solution Applicators

White Backpack Pressure Sprayer

Backpack pressure sprayer with ergonomic design and easy to use on / off trigger. The design and rotation of the straps means it is suitable for either left or right-handed use.

- Plastic Tank - 12 litre capacity
- Plastic D-Handle
- Thumb Trigger
- 1 Year Guarantee
- Padded Straps

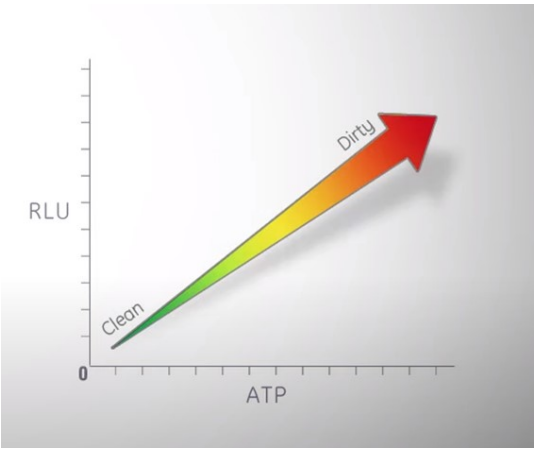
NOTE: THIS PRODUCT IS NOT SUITABLE FOR FLAMMABLE, CAUSTIC, CORROSIVE, ACID OR OXI-DISING CHEMICALS INCLUDING BLEACHES. PLEASE ENSURE ALL CONNECTIONS ARE TIGHT PRIOR TO EVERY USE.

Sterilisation Testers

Hygiena SystemSURE Plus

Adenosine Triphosphate, or ATP, is the energy molecule found in all living and once-living things, making it a perfect indicator when trying to determine if a surface is clean or not. With an ATP hygiene monitoring system, ATP is brought into contact with Hygiena's unique liquid-stable reagent in the test device. Light is then emitted in direct proportion to the amount of ATP present in the sample and read in the SystemSURE Plus, providing information on the level of contamination in seconds in Relative Light Units, or RLU.

The relationship between the amount of ATP on the sample and the RLU result reading on the luminometer is simple:



The RLU reading is directly proportional to the amount of ATP collected from the sample. A high RLU reading indicates a large amount of ATP at the test location. This in turn indicates improper cleaning and the presence of contaminants. Cleaning properly results in less ATP at the location. Less ATP results in less light output during the bioluminescent reaction and consequently, a lower RLU reading. **In layman's terms, a higher RLU number means more contamination and the dirtier the surface.**

Sterilisation Testers

Hygiena SystemSURE Plus

The Hygiena SystemSURE Plus and Ultrasnap ATP Sample Testing Device is quick and easy to use and uses a 4 step process of:

The Results from the test will indicate how clean a surface is with:

- Any indication lower than the lowest threshold will be designated as a pass and will be indicated by the tick marker on the display.
- A score between the pass and fail threshold is a caution and will be indicated by an exclamation mark on the display. Depending on internal procedures, this may require the surface to be cleaned and retested before production can continue.
- A score greater than the upper threshold is a fail and will be indicated with a cross symbol on the display. A fail result indicates the surface is dirty and will require cleaning and retesting to ensure a pass of caution result is achieved before production can continue.

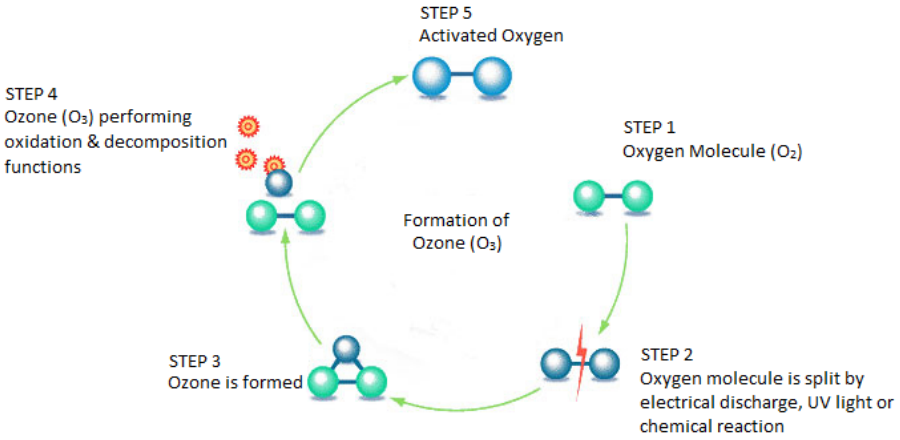
The meter, intended for food processing plants, comes with default thresholds of:

Pass is less than 10 RLU
Caution is between 10 and 30 RLU
Fail is greater than 30 RLU

Sterilisation Units

Ozone Sterilisation Units

Ozone is the most powerful oxidative agent that occurs naturally as it can be found during thunderstorms and in the Earth's atmosphere. With its extra free radical oxygen molecule, ozone can destroy germs, viruses, and microbes that may cause surface or air contaminations being non-carcinogenic, non-polluting, and does not leave any toxic residues after usage, which is why Ozone has been used for years as a drinking water disinfectant.



It is formed by either a bio-electrical reaction (electrical charge or UV light), photochemical reaction or a chemical reaction and then splits into two monatomic (O_1) molecules. The monatomic oxygen molecules then collide with O_2 molecules to form ozone, which is O_3.

Therefore, ozone consists of O_2 with a loosely bonded third oxygen atom that is readily available to attach to, and oxidize, other molecules. This additional oxygen atom makes ozone a powerful oxidant that destroys microorganisms but is highly unstable (i.e., half-life of 22 minutes at room temperature).

Sterilisation Units

Ozone Sterilisation Units

Our cutting-edge gaseous ozone sterilisation devices are combined with built in UV cleansing and filtering systems for the purpose to kill viruses, bacteria and germs. They are designed for a multi-tude of tasks in mind, from sterilising, deodorising and drying the fabric of your shoes and garments to extending and sustaining the life of your equipment, keeping it clean and fresh between uses.

Gaseous ozone has been proven to be effective at denaturing micro-organisms ranging from viruses to bacteria and germs; our machines use gaseous Ozone concentrations of around 1.5ppm with programs lasting from 10 to 180 minutes.

The single door Ozone Sterilisation Units allows clothing to be dried, deodorised and sterilised. The inclusion of high or low temperature settings means that electronic equipment can be placed inside and come out sterilised after a cycle.

The low power requirements means they are suitable for sites where power supply and capacity may be limited. Their small size means they are ideal for use in office environments where space may be an issue while still maintaining the same sterilising power of their larger counterparts. This means they are able to sterilise either one air fed helmet, two sets of SETCOM full duplex headsets or multiple radios and MyZone receivers per cycle.

They are the smallest of the units, with measurements of 320mmx380mmx454mm

Sterilisation Units

Ozone Sterilisation Units

The 24 door Ozone Sterilisation Unit is the one of the units that we personally use in-house in our workshop and have done for many years. It allows us to sterilise up to 48 SETCOM full duplex head-sets, or 24 pairs, when they are returned from being hired out. Before being rehired out, they are sterilised, cleaned and repaired if required issued out to our clients who are undertaking critical work on the rail and elsewhere around the country.

The unit has all the features of the Ozone Sterilisation Units, with the ability for high and low temperature settings to allow all manner of items to be placed inside safely, including electronics. The power output between these two temperature setting ranges from 1100W for high to 105W for low.

They measurements of the unit are 1053mmx450mmx1970mm

Sterilisation Units

Ozone Sterilisation Units

The large 2-door glass fronted Ozone Sterilisation Unit is the another one of the units that we personally use in-house in our workshop and have done for many years. It allows us to sterilise up to 32 air fed helmets in one cycle, with 8 removeable shelves on each side.

It does also come with optional rails which can be fitted at the top so garments or similar items can be hung while inside once some of shelves are removed.

The unit has all the features of the Ozone Sterilisation Units, with the ability for high and low temperature settings to allow all manner of items to be placed inside safely, including electronics. The power output between these two temperature setting ranges from 1850W for high to 65W for low.

They are the largest of the units, with measurements of 1225mmx575mmx1970mm