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INFECTION CONTROL BROCHURE CONTENT

BIOGEN DUO – BIO DECONTAMINATION SYSTEM

<https://howorthgroup.com/products-and-services/healthcare/infection-control/>

NEXT GENERATION VHP-U

BioGen DUO is a fully self-contained mobile decontamination system that disperses VHP (vapourised hydrogen peroxide) ultrasonically and then degases via an associated de-aeration unit.

The BioGen system will provide a fully validated decontamination achieving a 6-log sporicidal reduction, making it ideal for use in operating theatres, hospital bedrooms and isolation units.

Unlike earlier generation models, where H₂O₂ is vapourised on a hotplate, the next generation BioGen design achieves this by ultrasonication, negating the requirement for system conditioning and with much faster dosage rates.

A simple switchover from gassing to aeration then allows the catalyst to draw the VHP from the room and break it down into water and oxygen. There is no need to dehumidify the room either as this system can operate at up to 65% RH.

The whole process is fully controlled via a Wi-Fi tablet and validation is achieved using [Protak – Enzyme Indicators](#)

Features

- Compact fully self-contained system with associated de-aeration units
- Remote operation via Wi-Fi tablet so operators can remain outside the room
- 2-minute set-up time
- Rapid cycle time – as low as 1 hour
- Immediate validated 6-log reduction using EI (Enzyme Indicators)
- Safe and easy operating
- Open source

Wi-Fi Tablet

- Robust, thin and lightweight
 - Water resistant
 - Compatible with all cleaning agents to eliminate cross-contamination
 - Barcode reader to validate decontamination cycles including operation reports
 - Lockable docking station
 - Replaced within 24 hours if faulty or damaged
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PROTAK – ENZYME INDICATORS

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The conventional 7-day wait for Biological Indicator (BI) decontamination results is over. Working with Protak Scientific, we are pioneering an alternative way to really measure and validate decontamination performance instantly.

Enzyme Indicators (EI) are an industry-changing advance in measuring decontamination performance. No longer will the healthcare and pharmaceutical industries suffer financial losses, wasted man hours and the burden of high risks. Enzyme Indicators offer a fast, cost-effective, accurate and risk-free alternative.

Unlike the traditional Biological Indicator process which involves a wait of 7 days before a result is known, every cycle using EI can be validate immediately and decontamination performance assured.

Instant results

Instant results mean instant action. And instant action is what's needed to reduce waste, improve productivity and ultimately, save lives.

Accurate data capture

EI readers provide quantifiable, linear readings that give users substantially more information than the current BI. Enzyme Indicators can act as early warning systems – allowing performance monitoring, threshold release and automatic data capture.

Simple to use

Protak EI tests are simple to perform and so can be done regularly by medical and pharmaceutical users. A simple test strip is used alongside a bespoke luminometer, which reads and delivers results instantly.

Satisfies the audit process

EI and tAK validation provide the information needed to satisfy the audit process quickly and easily – and satisfy the regulators scrutiny.

Performance assurance

EI are manufactured to eliminate rogue results and include an optional onsite self-validation process.



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GENANO – AIR DECONTAMINATION

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Genano's expertise in air decontamination is used in various areas where ultrapure air is needed, for example in hospitals, laboratories, dental laboratories, industrial complexes and buildings suffering from so-called sick building syndrome.

The unique Genano Technology decontaminates air from particles, down to nanosize. The patented technology also eliminates microbes such as viruses, bacteria and mould from the air, and removes gases and odours.

In hospitals the focus is on airborne infection isolation and protective environment rooms. Genano can also protect critical areas, such as ORs and ICUs, from airborne pathogens.

Positive pressure isolation

Positive pressure isolation is used to protect patients with weakened immune systems from airborne contaminants in the hospital environment. These immunocompromised patients include cancer, burn, leukemia and AIDS patients and those who have recently gone through bone marrow or organ transplantation.

How it Works

With Genano, all the air entering the room is decontaminated with the Genano unit. Genano Technology effectively collects airborne microbes and eliminates them inside the unit. The unit can simultaneously be used to create positive air pressure inside the room. This prevents non-hygienic air from other premises from entering the room.

Negative pressure isolation

Negative pressure isolation is required for patients with serious and infectious diseases, such as tuberculosis, MERS, SARS, Ebola, chickenpox, etc.

How it Works

Genano solution is a rapid and cost-effective way to build isolation rooms. With Genano air decontamination units, existing rooms can be converted to isolation rooms and new ones can be built quickly and efficiently.

As in the picture, a Genano unit is used to decontaminate the air exiting the room. Genano Technology effectively collects airborne microbes and eliminates them inside the unit.

Genano simultaneously creates negative air pressure in the room, preventing airborne decontamination from entering other premises.