

Spotlight

Safety & Hazard Containment

Micro-GC as a Portable Monitor for Dump Gases

The targets of dump monitoring are twofold: O₂, CO₂ and CH₄ to maximise the production of CH₄ and amines, mercaptanes, aldehydes, acids to keep the smell under control. The most common instruments are optical or electrochemical: compact, quick and easy to use, but they are poorly selective and subject to interferences. Microgaschromatographs separate the air sample reducing interferences, can measure a wide range of compounds and are quick enough thank to micro instrumental components.

The micro-GCs are often big, as they require battery, gas canister and a laptop PC and their software can be used only by a trained technician. The Vega-GC by Pollution SpA is engineered for the field. It is compact, lightweight and ergonomic, and it incorporates gas canister, battery and PC with a touch-screen as user interface.

The software is so user-friendly that any worker can use it, and it identifies any strange result, so that the user can repeat the measure or call the technician. The latter is required only to setup the analytical method (instrumental parameters, calibration and alarm thresholds) and maybe review the automatically stored data. Vega-GC gives very accurate results (determining many components with no interference) and reduced costs (requiring no specialised personnel to perform the analysis).



Circle no. 159

New Disinfection & Sanitisation Kit for Downstream Processing Equipment and Lab Instruments

Alfa Wassermann Separation Technologies is pleased to announce the launch of its new kit for the disinfection and sanitisation, designed to simplify treatment of downstream processing equipment and laboratory instruments. AlfaSIP-50D produces a solution of chlorine dioxide gas dissolved in enough water to carry out eight to ten disinfection cycles on an Alfa Wassermann continuous flow ultracentrifuge.

A package containing a membrane envelope is opened and the envelope is immersed in water. Once produced, the solution remains at active strength for a minimum of two weeks, ready for immediate use. The concentration can be checked using simple test strips. The patented, membrane-based micro-reactor envelope technology ensures that only the pure gas is diffused into the water and the equipment. The production system ensures that no free chlorine can be created.

AlfaSIP is time saving. Ten to twenty minutes after filling the equipment to be disinfected, the solution can be rinsed out with a small volume of water and the eradication of the chlorine dioxide checked by test strips. There is no heating nor cooling cycle.

Just 100 ppm of chlorine dioxide is produced with the AlfaSIP-50D kit. The activated gas attacks S-S bonds in biological structures and nothing else, so only a minute quantity is required compared to that necessary with other sanitising / disinfecting agents.

Circle no. 160

Surfex 100M Parts Cleanliness Testing Station



The Surfex 100M tabletop monitor is a compact, integrated particle extraction system for monitoring and qualifying part cleanliness. By combining ultrasonic extraction, particle measurement, and high purity fluidics, the Surfex 100M increases testing throughput up to ten-fold over traditional methods, saving time and money.

The system is specially designed to count particles on small complex devices, irregular shaped parts, consumables, and components typical of the pharmaceutical, medical device, disk drive, and automotive industries. Particle counting is performed and archived with SamplerSight software.

Available SamplerSight software meets all current USP, EP, and JP requirements. The accompanying data collection and reporting software is engineered for 21 CFR Part 11 requirements.

Circle no. 161

The Spotlight
could be on you!

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No Frills Autoclaving

With the international launch of their new OPAL range of laboratory autoclaves Priorclave aim to provide a low-cost alternative to the increasingly sophisticated and complex equipment generally available in the market.

This entry-level, four option range starts with a 35L Bench-top model and includes 55L and 95L top loading models. A 125L Bench-top model with optional mounting stand completes the range.

They have been specifically designed to perform everyday laboratory autoclaving functions such as growth media preparation and laboratory waste sterilisation. It is intended to enable laboratories, with a more basic need, to perform these operations within their own laboratory to specific requirements, without unnecessary expenditure on additional functions and control systems often fitted as standard on today's autoclaves, for more exacting procedures.

All autoclaves in the range feature automatic free steaming and a thermal safety lock and are managed by a slimmed down version of Priorclave's tried and tested TACTROL microprocessor control system. They will operate up to 138°C – 2.4 Bar.

The models are based around Priorclave's existing product range and so are fully compliant and CE marked in accordance with the European Pressure Equipment Directive (97/23/EC) and other relevant directives and standards.

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