

Infection Control and Maintenance Guidelines



For Bedfont® GastroCH₄ECK® Gastrolyzer®

Before using any of the above equipment, the Operating Manual should be read and fully understood.

Infection Control

Washing hands before and after testing is highly recommended for both operator and user as part of a sensible infection control regime.

The monitors can use either a GastroCH₄ECK® Gastrolyzer® mouthpiece that connects to the monitor via a sampling line, or a breath sample can be obtained via a sample breath bag. GastroCH₄ECK® Gastrolyzer® mouthpieces and breath bags are single-use only as re-use can increase the risk of cross-infection.

The GastroCH₄ECK® Gastrolyzer® direct breath sample mouthpieces enable patients to exhale directly into the monitor with instant results. The mouthpiece itself is specifically designed with the latest bacterial filtration to remove >99% of airborne bacteria and viruses, further removing any moisture from the patient's breath. The GastroCH₄ECK® Gastrolyzer® breath bags have been specifically developed to capture as much of the end-tidal sample as possible. Breath samples can also be stored in these bags for up to one month, with no loss of concentration, making them ideal for remote testing and analysing at a later date. One-way breath bag mouthpieces are supplied to ensure no loss of sample and increased infection control.

The GastroCH₄ECK® Gastrolyzer® device comes with a bacterial and viral filter which can be attached to the sample bag and sampling port to remove filter out bacteria (at a rate of 94.44%) and viruses (at a rate of 97.31%). These filters have been rigorously tested by Public Health England (PHE) giving the patient and health care professional peace of mind. The filter should be changed monthly to ensure optimal infection control. The filter will gradually change colour from orange (dry) to dark green (saturated), indicating that replacement is required. Unlike some, Bedfont® use only non-carcinogenic drying methods for optimum safety. Please note that these have a three month shelf life and will last for approximately 150 samples.

Routine maintenance

See the operating manual for full maintenance instructions. The GastroCH₄ECK® Gastrolyzer® should be switched off once every 24 hours. The device must be calibrated once every 4 weeks. The monitor will provide daily reminders via the reminder screen after turning on the GastroCH₄ECK® Gastrolyzer® for 1 month leading up to the sensor change due date. Once this date has elapsed the date will turn red to indicate that sensor replacement is overdue:

- The H₂ sensor should be replaced every 2 years;
- The O₂ sensor should be replaced every 2 years;
- The CH₄ sensor should be replaced every 5 years.



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Calibration

The GastroCH₄ECK® Gastrolyzer® should be calibrated with 100ppm H₂ & CH₄ once a month. It is recommended that only Bedfont® calibration gas is used; the unit may give false readings if not calibrated.

Cleaning

Wipe the external surfaces of the instrument with a product specifically developed for this purpose. The device should be cleaned for initial use and after each patient use. Bedfont® recommends wiping the instrument and D-piece™ external surfaces between each patient with an alcohol-free wipe specifically designed for this purpose. A list of approved wipes can be found here: <https://www.bedfont.com/cleaning-bedfont-monitors>.

NEVER use alcohol or cleaning products containing alcohol or other organic solvents as these vapours will damage the sensor within the instrument. Under no circumstances should the instrument be immersed in or splashed with liquid.

Contact Bedfont® or your local distributor for replacements:

GastroCH₄ECK® Gastrolyzer® mouthpieces

Breath bags

Sampling line

Moisture removal filter

This document is for guidance only.

Visit www.bedfont.com/resources to view this document in other languages.



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