

Infection Control and Maintenance Guidelines



For Bedfont® Smokerlyzer®, Gastrolyzer® and ToxCO® Devices

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 Smokerlyzer®, ToxCO®, and Gastro+™ devices are integrated with antimicrobial technology for improved infection control.

The devices can use either a SteriBreath™ Eco mouthpiece that connects to the device via a D-piece™ or a OneBreath™ mouthpiece that connects directly to the device. Both the SteriBreath™ Eco and OneBreath™ mouthpieces are single-use only as re-use can increase the risk of cross-infection.

The D-piece™ and OneBreath™ both contain a one-way valve to prevent patients drawing air back from the device. An integrated infection control filter removes and traps > 99% of airborne bacteria and > 97% of viruses¹.

Bedfont® recommends that the D-piece™ is replaced every 30 days or if visibly soiled. The D-piece™ cannot be sterilised as this process may affect the positioning of the valve. It is possible that saliva can build up inside the D-piece™ if they are not replaced regularly, which may over time affect the valve and efficacy of the filter material.

The OneBreath™ is a single-use bacterial filter mouthpiece and should be replaced after every patient. The OneBreath™ cannot be sterilised as this process may affect the positioning of the valve. Re-use of the OneBreath™ can increase the risk of cross-infection.

It is preferable that, where possible, the user attaches their own SteriBreath™ Eco mouthpiece to the D-piece™ before the breath test, and detaches and disposes of it once the test is complete. It is preferable that the user attaches their own OneBreath™ mouthpiece to the device before the breath test, and detaches and disposes of it once the test is complete. Whilst the user is exhaling, the operator should avoid positioning themselves in front of the exhaust port of the instrument.

Routine maintenance

See the Operating Manual for full maintenance instructions. The D-piece™ requires changing at least every 30 days or if visibly soiled. A reminder will appear on the Micro+™, piCO™, piCO^{baby}™, Gastro+™ and ToxCO® start-up screens. Batteries should be replaced when indicated. They should be removed if the device is not likely to be used for some time.



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Calibration

- The Micro⁺™, piCO™, piCO^{baby}™ do not require calibration.
- The Gastro⁺™ should be calibrated with 100 ppm H₂ in air once every 3 months; an onscreen reminder will display every 90 days.
- The ToxCO® should be calibrated with 50 ppm CO in air; an onscreen reminder will display every 6 months, however the ToxCO® should be calibrated at least once a year.
- 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-devices>.

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:

SteriBreath™ Eco single-use mouthpiece for use with the D-piece™
D-piece™ bacterial filter for use with the SteriBreath™ Eco mouthpiece
AA alkaline batteries

This document is for guidance only.

REFERENCES

1. Public Health England. An Evaluation of Filtration Efficiencies Against Bacterial and Viral Aerosol Challenges. London: Public Health England; 2017.

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



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