

# Infection Control and Maintenance Guidelines



## for Bedfont Professional Smokerlyzer® Monitors and Testers



Bedfont's instrument cleansing wipes

### Infection Control

The **Micro**, **Mini**, **piCO** and **piCO-Io Smokerlyzer®** breath CO monitors use disposable cardboard mouthpieces that connect to the monitor via a T-piece. The T-piece contains two one-way valves that trap the breath sample and prevent patients from drawing air back from the monitor, reducing potential risks of cross infection.

Disposable cardboard mouthpieces are connected to the **piCO+** **Smokerlyzer®** via a unique breath sampling D-piece. The D-piece has a one-way valve and an innovative infection control filter which removes and traps >99.9% of airborne bacteria.<sup>1</sup>

The professional **COcompact™** breath CO tester uses single-use disposable mouthpieces that incorporate a one-way valve and connect directly onto the tester.

### Routine Maintenance

- Before using any of the above equipment the Operating Manual should be read and fully understood.
- All of Bedfont's mouthpieces are intended for single-use only. They must be changed between each patient and disposed of as soiled.
- Calibrate Micro, Mini, piCO or piCO-Io monitors with 50ppm carbon monoxide in air calibration gas and the piCO+ with 20ppm CO in air. Calibration should be carried out at least every six months (see Operating Manual), the date recorded and the next calibration date diarised. The COcompact™ does not require calibration.
- Replace batteries when indicated (see Operating Manual).
- Bedfont recommend that T-piece and D-piece breath sampling systems are replaced every month, if visibly soiled or after use with patients with known communicable

conditions. Record every time this is done and diarise the replacement date. They cannot be cleaned or sterilised.



Replace T-pieces and D-pieces every month

### Cleaning

Wipe the Smokerlyzer® and T-piece or D-piece external surfaces with a product specifically developed for this purpose. Bedfont provides an instrument cleansing wipe which contains 1% Cetrimide, a powerful antimicrobial detergent. This method of cleaning does not disinfect or sterilise.

**Never** use alcohol or cleaning products containing alcohol or other organic solvents as these vapours will damage the carbon monoxide sensor within the instrument.

Under no circumstances should the instrument be immersed in or splashed with liquid.

### Breath Sampling

- Washing hands before and after testing is highly recommended by both operator and user as part of a sensible infection control regime.
- It is preferable that the user attaches their own mouthpiece to the T-piece or D-piece 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 exit end of the T-piece or the exhaust port of the piCO+ (see Operating Manual).



Bedfont's instrument cleansing wipes have been specifically developed for cleaning breath CO and H<sub>2</sub> monitors

### Contact Bedfont Scientific Ltd or your local distributor for replacement:

20Ltr 50ppm CO in air calibration gas kit	020-08-04010K-V
Replacement 20Ltr 50ppm CO calibration gas canister	020-08-04010-V
20Ltr 20ppm CO in air calibration gas	020-08-02511K-V
Replacement 20Ltr 20ppm CO calibration gas canister	020-08-02511-V
T-pieces	EC50-piCO-T/P-V
D-pieces	PICO+DP
Single-use disposable cardboard mouthpieces	E50-MP/200-V
Single-use disposable COcompact™ mouthpieces	Compact-MP-V
Instrument cleansing wipes	WIPE-V

<sup>1</sup> Health Protection Agency (HPA), Porton Down, Report No 43/06, pp.10-11



# Infection Control and Maintenance Guidelines

## for Bedfont ToxCO<sup>+</sup>™ and Gastrolyzer™ CO and H<sub>2</sub> Monitors

### Infection Control

The ToxCO<sup>+</sup>™ breath CO monitor and the Gastrolyzer™ breath H<sub>2</sub> monitor both use disposable cardboard mouthpieces that connect via a T-piece. The T-piece contains two one-way valves that trap the breath sample and prevent patients from drawing air back from the monitor, reducing potential risks of cross infection. When treating paediatric or unconscious patients it is possible instead to attach a face mask to the monitor via a Y-piece. Face masks are available from Bedfont in infant, child and adult sizes, and are supplied individually wrapped. The Y-piece also contains an inspiratory limb, allowing the treatment of patients unable to provide an end-tidal breath sample.

### Routine Maintenance

- Before using any of the above equipment the Operating Manual should be read and fully understood.
- Bedfont's cardboard mouthpieces are intended for single use only. They must be changed between each patient and disposed of as soiled. Bedfont also recommend that face masks and Y-pieces are single-patient use only.
- Calibrate the ToxCO<sup>+</sup>™ with 50ppm carbon monoxide in air calibration gas at least every six months. Calibrate the Gastrolyzer™ with 200ppm hydrogen in air calibration gas at least once every month.
- Replace batteries when indicated (see Operating Manual).
- Bedfont recommend that T-piece breath sampling systems are replaced every month, if visibly soiled or after use with patients with known communicable conditions. Record every time this is done and diarise the replacement date. They cannot be cleaned or sterilised.

### Cleaning

The instrument and T-piece external surfaces should be wiped with a product specifically developed for this purpose. Bedfont provide an instrument cleansing wipe which contains 1% Cetrimide, a powerful antimicrobial detergent. This method of cleaning does not disinfect or sterilise.

**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.

### Breath Sampling

- Washing hands before and after testing is highly recommended by both operator and user as part of a sensible infection control regime.
- It is preferable that the user attaches their own mouthpiece to the T-piece 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 exit end of the T-piece or Y-piece (see Operating Manual).

FRANÇAIS: Pour télécharger les principes relatifs à l'entretien et au contrôle des infections en Français, veuillez consulter [www.bedfont.com](http://www.bedfont.com)  
DEUTSCH: Um Richtlinien zur Infektionskontrolle und Wartung auf Deutsch herunterzuladen besuchen Sie bitte die Homepage [www.bedfont.com](http://www.bedfont.com)  
ESPAÑOL: Para descargar las Directrices de Control de Infecciones y Mantenimiento en español, visite [www.bedfont.com](http://www.bedfont.com)  
ITALIANO: Per scaricare le guida per il controllo delle infezioni e la manutenzione in italiano, visitare il sito [www.bedfont.com](http://www.bedfont.com)  
NEDERLANDS: Ga naar [www.bedfont.com](http://www.bedfont.com) om de richtlijnen voor infectiebestrijding en onderhoud te downloaden in het Nederlands

Distributed by

### Contact Bedfont Scientific Ltd or your local distributor for replacement:

20Ltr 50ppm CO in air calibration gas kit	020-08-04010K
Replacement 20Ltr 50ppm CO calibration gas canister	020-08-04010-V
20Ltr 200ppm H <sub>2</sub> in air calibration gas kit	020-14-13010K-V
Replacement 20Ltr 200ppm H <sub>2</sub> calibration gas canister	020-14-13010-V
T-pieces	EC50-piCO-T/P-V
Single-use disposable cardboard mouthpieces	EC50-MP/200-V
Y-piece face mask connector	EC60-ISS-V
Infant facemask	EC60-IM-V
Medium facemask	EC60-MM-V
Adult facemask	EC60-AM-V
Instrument cleansing wipes	WIPE-V

### Bedfont Scientific Ltd

105 Laker Road  
Rochester Airport Industrial Estate  
Rochester Kent ME1 3QX England  
Tel: +44 (0)1634 673720  
Fax: +44 (0)1634 673721  
E-mail: [ask@bedfont.com](mailto:ask@bedfont.com)  
[www.bedfont.com](http://www.bedfont.com)  
**European office: Salzburg, Austria**  
Tel: +43 (0)664 387 45 17  
Fax: +43 (0)662 63 50 50 50  
Email: [office-salzburg@bedfont.com](mailto:office-salzburg@bedfont.com)

Registered in: England and Wales.  
Registered No: 1289798