

How to disinfect the Incheck Inspiratory Flow Meter

Introduction

As the In-Check meter is designed for inspiratory flow measurement the risk of cross infection is greatly reduced when compared to an expiratory flow meter because clean air is being sucked in. However, the meter can become compromised if a patient accidentally blows into the device.

In an effort to reduce the risk of cross contamination to it's lowest possible level we recommend the use of inspiratory one-way-valve mouthpieces or Spirometry type bacterial/viral filters.

Frequency of disinfection

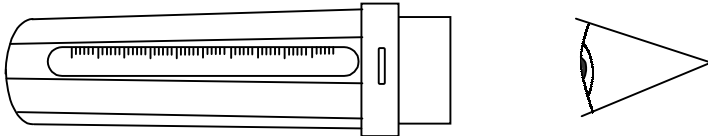
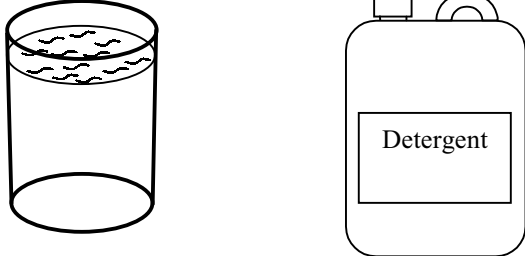

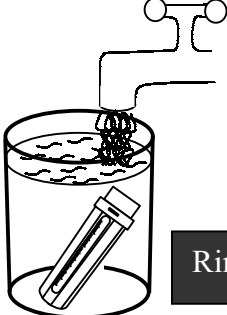

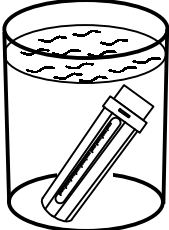
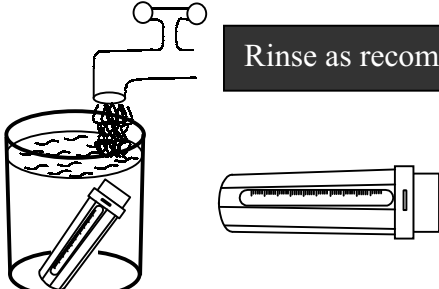
The following recommendations for disinfection frequencies are presented as a guide only. In practice, the person responsible for the clinical wellbeing of the patient should consider the specific circumstances of the next patient and the risk posed by cross-infection.

Mouthpiece Type	Disposable One-Way cardboard mouthpieces	Disposable bacterial filters	Disposable cardboard mouthpieces	Sterilizable plastic mouthpieces
Frequency	WEEKLY	WEEKLY	Between Patients	Between Patients

Reprocessing - Sterilizable Plastic Mouthpiece

- Clean using an automatic dishwasher (2 min pre-wash, 3 min detergent wash, dry)
- Autoclave in saturated steam (max. 134°C - 137°C) for 3 minutes (refer to autoclave manufacturers instructions for details of cycles available).
- Alternatively, the method below can be used to disinfect the mouthpiece.

Cleaning & Disinfection

1		<p>Inspect the unit for signs of damage or wear, if any is evident replace meter.</p>
2		<p>Prepare a solution of detergent in accordance with the manufacturer instructions in a container large enough for the Meter(s) to be totally submerged.</p>
3	 <p>Leave in solution for recommend time</p>	<p>Agitate the meter whilst in the solution to ensure any trapped air is expelled. Do not use any mechanical aids such as brushes or cloths.</p>
4	 <p>Rinse as recommended</p>	<p>Rinse and dry as recommended.</p>
5		<p>Pour a quantity of the chosen disinfectant into suitable container.</p>
6	 <p>Leave in solution for recommend time</p>	<p>Immerse the Meter(s), again agitate the meter(s) to ensure air is expelled and leave it in the solution for the recommended time</p>
7	 <p>Rinse as recommended</p> <p>Dry naturally</p>	<p>Rinse as stated, shake gently to remove any excess water and allow to dry naturally, do use hot air or a drying cupboard.</p>

Detergents

The following detergents have been tested for compatibility with Clement Clarke Int. Ltd's, Peak Flow Meters.

Name	Solution strength	Comments
Lancerzyme	40 ml in 5 litres of water	Enzymatic cleaner
Cidezyme		Enzymatic cleaner
Hospec		

Disinfectants

The following disinfectants have been tested for compatibility with Clement Clarke Int. Ltd, Peak Flow Meters at the stated concentrations only.

Chemical type	Examples	Solution strength	Comments
Chlorine dioxide generator	Tristel one day	20ml in 1 litre of water	Safety data sheet and further information available from www.tristel.com
<i>ortho</i> -phthalaldehyde	Cidex OPA	Undiluted	
Sodium hypochlorite (NaOCL)	Milton,	1000 ppm	Ensure thorough rinsing, as corrosion of the metal parts will occur if exposed to chlorine for long periods.
Sodium dichloroisocyanurate (NaDCC)	Presept, Actichlor Sanichlor, Haz-Tab	1000 ppm	
Hydrogen peroxide and peroxygen compounds	Pera Safe,	1.62% w/volume	Under evaluation

- Clement Clarke Int. Ltd accepts no liability for damage caused to products if the above procedure and recommended solutions are not used.
- It is the users responsibility to choose which of the recommended solutions are used within their establishment or hospital and we stress that the infection control nurse/department should be consulted when making the choice.
- It is the responsibility of the user to keep themselves current with the latest information from the relevant disinfectant manufacturer concerning instructions, effects, concentrations, and immersion times.
- If your preferred cleaner/disinfectant is not on the recommended list please contact our customer service advisors on 01279 414969 or Fax 01279 456 304 or Email resp@clement-clarke.com.

References: Chemical disinfection in hospitals – PHLS,
Sterilization, disinfection and cleaning of medical device equipment (MAC Manual) – MHRA