

Germlyser® G



Point-of-use hollow fibre membrane filter for manual rinsing of endoscopes

Effective membrane filtration protecting against waterborne bacteria in manual endoscope reprocessing

Preventing bacterial nosocomial infectious diseases caused by *Pseudomonas aeruginosa*, *Legionella pneumophila*, *Stenotrophomonas maltophilia* or *Staphylococcus aureus* among immunosuppressed and immunocompromised patients.

- Safe water hygiene
- Quick and easy installation
- CE-marked medical device
- Environmentally friendly and efficient reusable product



For more information visit

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Prevention through water hygiene

When reprocessing endoscopes, there is a risk that the water used to remove disinfectant residues might be contaminated with bacteria. For this reason, the final rinse in manual and automatic endoscope reprocessing can lead to recontamination in the already cleaned and disinfected canals of the endoscope. Since 2002, the Robert Koch-Institute (RKI) has recommended the use of water filtration to safely remove disinfectants without the risk of recontamination. The

Commission for Hospital Hygiene at RKI has published its recommendations in, "Demands on Hygiene in Reconditioning Flexible Endoscopes": *"For the final rinse, water should be used, which is of the same microbiological quality as drinking water and is free of facultative pathogenic microorganisms. Sterile water filters can be used to provide sufficient volumes of microbiologically pure water."*

Germylser® G

The Germylser® G point-of-use, hollow-fibre filter, which is specially used for manual final rinsing of endoscopes, is a CE-marked medical product. This reusable water filter is a point-of-use, sterile filter with a 0.2 µm hollow-fibre membrane which displays retention of at least 7 log units¹ in accordance with the FDA standard², thereby offering reliable protection of patients from infections by all critical water-borne germs such as legionella, pseudomonas, staphylococci or stenotrophomonas over a service life of up to 4 weeks and depending on the respective water quality. The chemical

composition of the water is not altered. The hygienic design and the use of bacteriostatic material in the housing and bactericidal material at the filter outlet prevent retrograde contamination incurred by splash water or physical contact. On expiry of the service life, the respective filter must be changed and returned for reprocessing. This filter change is easy to complete thanks to installation of the appropriate quick-release coupling. An individual product marking on each filter guarantees traceability and facilitates the documentation process within the framework of hospital hygiene procedures.

¹ Measured in accordance with the international ASTM F838-15a standard - Standard Test Method for Determining Bacterial Retention of Membrane Filters Utilized for Liquid Filtration

² Source: FDA - Guidance for industry-sterile drug products - September 2004

Technical data

■ Size:	L 77 mm x Ø 55 mm	■ Flow rate:	Adjustable up to 6 l/min at 5 bar, at 25°C
■ Retention:	7 log steps <i>Brev. dim.</i>	■ Max. operating pressure***:	5 bar at 60°C
■ Pore size:	0.2 µm	■ Max. operating temperature:	60°C (at 70°C < 10 min. over operating time)
■ Operating time*:	1 month	■ Connection:	Quick-release coupling
■ Chlorine resistance**:	≤ 10 ppm		

* The operating time can be increased up to 2 month if sufficient hygienic measures exist and an adequate hygiene plan is carried out. We recommend monitoring by appropriate clinical microbiological testing.

** Continuous dosage of ≤ 10 ppm over operating time; short-term (1h) high dosage (400,000 ppm) for chemical disinfection.

*** The Germylser® G is not suitable for connection to low-pressure systems (e.g. boilers).

As the operating time increases, the water quality can impact on the maximum available flow rate.

Reprocessing and delivery service

The Aqua free Germylser reusable filter system offers customers a safe, environmentally friendly and efficient alternative to single-use filters. Aqua free manage the logistics of delivery and return of filters – which is included in the rental rate of the filters – reducing inventory costs and administration. All filters are reprocessed by Aqua free using a validated

process and following strict quality standards. Quick-release couplings allow filters to be safely changed in seconds and bar-codes, identifying filter and location, ensure simple logging and documentation of the whole change process. Aqua free reusable filters deliver a significant reduction in waste and carbon footprint compared to single-use filters.