

### Baclyser® TL (1M) and TR (1M)



#### Hollow fibre end membrane filter for tap fittings

Prevention of bacterial nosocomial infectious diseases caused by *Pseudomonas aeruginosa*, *Legionella pneumophila*, *Stenotrophomonas maltophilia* or *Staphylococcus aureus* in immunosuppressed and immunocompromised patients. The effect is achieved by interrupting the transmission path of these germs through filtration of the water and protection against retrograde contamination during the use of water taps through hygienic design and antimicrobial protection functions.

- CE-marked medical device
- Service life of up to 4 weeks
- Low installation height
- Can be swivelled for more flexibility
- Hygienic design
- MetalSkin Medical® - highly effective bactericidal coating<sup>1</sup> as well as antimicrobial additives in the housing to prevent infections from retrograde contamination



Baclyser® TL



Baclyser® TR

Find out more at  
[www.aqua-free.com](http://www.aqua-free.com)



<sup>1</sup>External laboratory validation according to ISO 22196 2011-08

## Baclyser® TL (1M) and TR (1M)



### Prevention through water hygiene

Water supply systems are a major source of nosocomial infections. With the help of terminal membrane filters, which are installed directly at the water outlet, it is possible to filter out pathogens contained in tap water. Terminal membrane filters have become established in the medical sector in particular and are currently the safest method of protecting immunocompromised patients from germs such as legionella and pseudomonads in tap water.

The Federal Environment Agency (UBA) recommends the use of terminal water filters in high-risk areas with a legionella value of  $\geq 1$  CFU/100 ml. For the water germ *Pseudomonas aeruginosa* a limit value of 0 CFU/100 ml is specified for hospitals and other medical facilities. In addition, the Robert Koch Institute (RKI) recommends the use of terminal water filters as a preventive measure in the care of immunocompromised patients and newborns.

### Baclyser® TL (1M) and TR (1M)

The Baclyser® TL/TR (1M) terminal hollow fibre tap filter is a CE-marked medical device. This disposable water filter is a terminal sterilising grade filter with a 0.2  $\mu\text{m}$  hollow fibre membrane, which has a retention of at least 7 log levels<sup>1</sup>. Thus, over a service life of up to 4 weeks, depending on the water quality, reliable protection of patients from infections by the critical germs *Pseudomonas aeruginosa*, *Legionella pneumophila*, *Stenotrophomonas maltophilia* and *Staphylococcus aureus* is ensured by interrupting the transmission path of these germs through filtration of the water. The chemical composition of the water is not changed in the process. The hygienic design and the use of antimicrobial additives or

bactericidal coatings at the filter outlet also prevent infections with *Pseudomonas aeruginosa*, *Legionella pneumophila*, *Stenotrophomonas maltophilia* or *Staphylococcus aureus* via retrograde contamination, e.g. via splash water, aerosols from the siphon or contact when using the water point. After the service life has expired, the filter used must be changed and disposed of in an environmentally friendly manner via the collection of recyclable materials. This filter change can be carried out very easily by installing the matching adapter arms. Individual product labelling on each filter ensures traceability and facilitates the documentation process in hospital hygiene routines.

<sup>1</sup> measured according to the international standard ASTM F838-15a – Standard Test Method for Determining Bacterial Retention of Membrane Filters Utilized for Liquid Filtration

### Specifications

- |                       |  |                                  |   |
|-----------------------|--|----------------------------------|---|
| ■ Dimensions:         | L 105 mm x $\varnothing$ 44 mm<br>H 51 mm (Baclyser® TL)<br>H 60 mm (Baclyser® TR) | ■ Resistance to chlorine**:      | $\leq 10$ ppm                                   |
| ■ Retention capacity: | 7 log levels <i>Brev. dim.</i>   | ■ Flow capacity:                 | 10 l/min. (5 bar, 30°C)                         |
| ■ Pore size:          | 0.2 $\mu\text{m}$  | ■ Maximum operating pressure***: | 5 bar   |
| ■ Service life*:      | up to 4 weeks  | ■ Maximum operating temperature: | 60°C (at 70°C $\leq$ 30 min. over service life) |
|                       |  | ■ Adaption:                      | Quick release                                   |

The tap filters are also available as gamma sterilised products **Baclyser® TL (1M) sterile** and **Baclyser® TR (1M) sterile**.

\* Dependent on water quality.

\*\* Continuous dosing of  $\leq 10$  ppm over the service life; short-term (1h) high dosing (400,000 ppm) for chemical disinfection.

\*\*\* Do not connect the Baclyser® TL/TR to low-pressure systems (e.g. boiler).

### About Aqua free

Aqua free GmbH was founded in 1999 and has established itself as one of the leading manufacturers of membrane filters in the medical environment. In addition to hollow fibre membrane filters, our engineers are continuously developing further innovative hygiene solutions for drinking water installations in the medical environment with a strong

focus on customer needs. Aqua free is a certified manufacturer of medical products according to EN ISO 13485. Our products are produced at our sites in Germany and Belgium. The filters are characterised by a simple and quick installation via quick-release adaption and offer immediate reliable protection against water-bound germs.