



**Sterile filters  
for infection prevention  
small - compact - effective**



## Medical sterile filters – a protective barrier

**Effective protection of hospital patients is becoming more and more important in light of the increase in multi-resistant germs. Medical sterile filters serve to prevent infections and reduce the risk of nosocomial infections in particular.**

The number of nosocomial infections caused by resistant Gram-negative germs has risen sharply in recent years. Medical sterile filters using the latest technologies are highly beneficial both in the acute control of outbreaks and in the prevention of nosocomial infections.

Sterile filters form a barrier between the patient and germ-contaminated drinking water, thus inhibiting any and all of the germs associated with water. The evidence regarding terminal sterile filters has been extensively documented by numerous scientists in recent years.<sup>1</sup>

Numerous years of experience in the field of life science filtration combined with the use of functional product materials make it possible for i3 Membrane, as a certified medical technology company, to make far-reaching contributions in the fight against infections.

The i3 sterile filters form a sustainable barrier against germs associated with water and interrupt the contamination pathways of resistant germs.

## i3 Membrane – Your companion in infection prevention

<sup>1</sup>See: i3 Membrane GmbH, „Bedeutung von Wasser und gramnegativen Keimen in der Hygiene“



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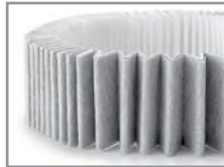


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## i3 ONE sterile filter



The i3 ONE point-of-use sterile filter is used in medical settings to prevent infections caused by bacteria such as *Legionella pneumophila*, *Pseudomonas aeruginosa* and mycobacteria. It is used on the water faucet for the sterile filtration of tap water. The water filter protects patients receiving medical treatment, for example in oncological, transplant and intensive care wards, and also neonates, from infections caused by waterborne pathogens.

### PROPERTIES

CE-marked Class I medical device

Microbial retention as per ASTM F838

Sterile filtration with a nominal pore size of 0.2  $\mu\text{m}$  (microfiltration)

Duration of use: 50 days (7 weeks)

High, stable flow rate throughout the period of use

Protection due to the bacteriostatic properties of the filter housing in accordance with ISO 22196

Proven biocompatibility to protect the user

Filter surface can be disinfected by wiping

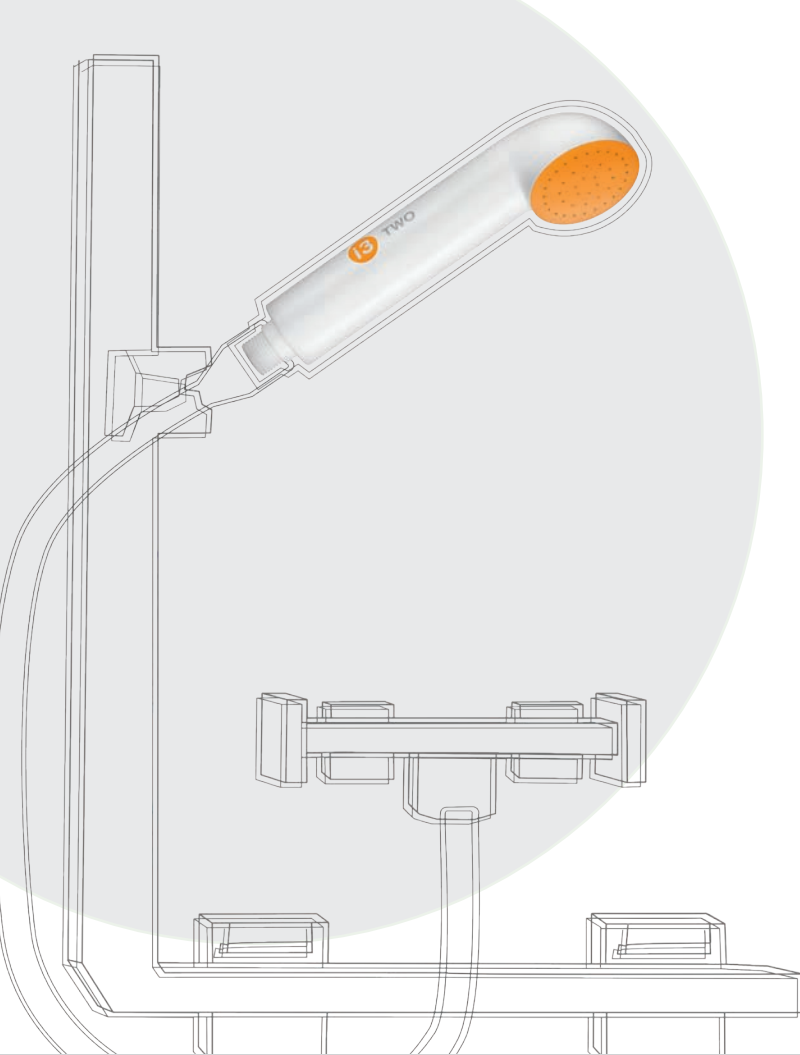
Compact design means use of the faucet is not limited

Angled laminar water jet

Connected to water faucet by means of quick-release fastening

Unambiguous traceability





## i3 TWO (connect/direct) sterile filter



The i3TWO connect/direct point-of-use sterile filter is used in medical settings to prevent infections caused by bacteria such as *Legionella pneumophila*, *Pseudomonas aeruginosa* and mycobacteria. It is used as a shower head for the sterile filtration of tap water. The water filter is used in settings where aerosols are produced and protects immunocompromised and immunosuppressed patients receiving medical treatment in oncology, transplantation and intensive care wards, and also neonates, from infections caused by waterborne pathogens.

### PROPERTIES

CE-marked Class I  
medical device

Microbial retention  
as per ASTM F838

Sterile filtration with a nominal  
pore size of 0.2  $\mu\text{m}$  (microfiltration)

Duration of use: 50 days  
(7 weeks)

High, stable flow rate  
throughout the period of use

Protection due to the bacteriostatic  
properties of the filter housing in accordance  
with ISO 22196

Proven biocompatibility  
to protect the user

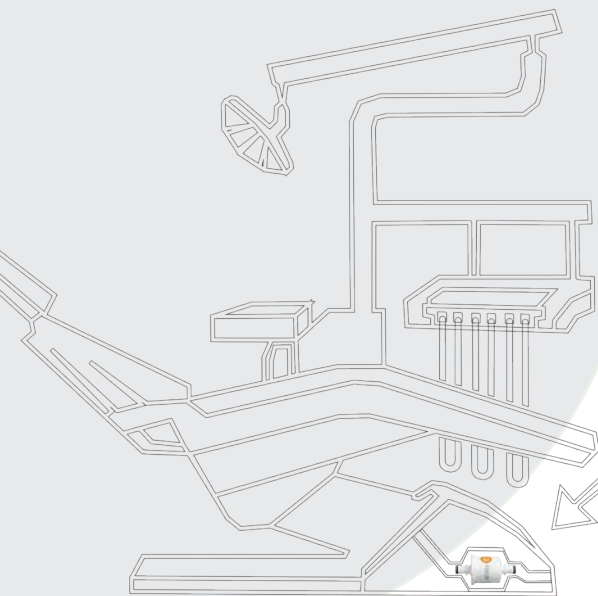
Filter surface can be disinfected  
by wiping

Irrigation of wounds (chronic and postoperative  
wounds, wounds of people with severe burns)

Connected to shower hose  
by means of quick-release fastening

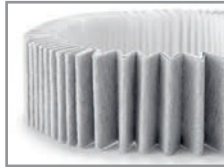
Unambiguous traceability







## i3 FOUR sterile filter



The i3 FOUR inline filter is used for the sterile filtration of tap water to prevent contamination due to waterborne bacteria such as *Legionella pneumophila*, *Pseudomonas aeruginosa* and mycobacteria. It is installed in the inflow pipes of devices and instruments. The areas of use of the i3 FOUR are varied and include many different situations. For example, it is used in medical settings for the reprocessing of devices (e.g. endoscopes) and in dental and ENT units. It provides reliable protection against waterborne pathogens in the provision of drinking water (drinking water fountains), air conditioning, laboratory equipment and other situations.

### PROPERTIES

Microbial retention as per ASTM F838

Sterile filtration with a nominal pore size of 0.2  $\mu\text{m}$  (microfiltration)

Duration of use: 50 days (7 weeks)

High, stable flow rate throughout the period of use

Varied range of uses (e.g. in the reprocessing of medical devices; in ENT and dental units)

Authorized for use with drinking water

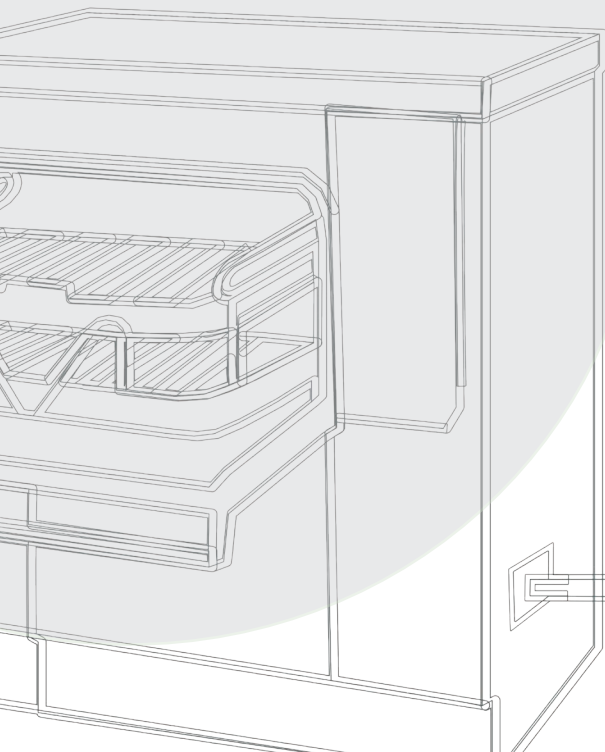
Compact design for use in devices and instruments

Connection in the water system by means of quick-release fastening

Unambiguous traceability

Proven medical technology





## i3 FIVE sterile filter



The i3 FIVE inline sterile filter is used for the sterile filtration of tap water. It is installed in the inflow pipes of devices and instruments to prevent contamination due to waterborne bacteria such as *Legionella pneumophila*, *Pseudomonas aeruginosa* and mycobacteria. The i3 FIVE filter is used for reliable microfiltration to exclude waterborne pathogens in situations involving high levels of water flow. The bacterial filter is used in settings such as medical device reprocessing (e.g. AERs) and the filling of birth pools.

### PROPERTIES

Microbial retention as per ASTM F838

Sterile filtration with a nominal pore size of 0.2  $\mu\text{m}$  (microfiltration)

Duration of use: 50 days (7 weeks)

High, stable flow rate throughout the period of use

Varied range of uses (e.g. in the reprocessing of medical devices; in ENT and dental units)

Authorized for use with drinking water

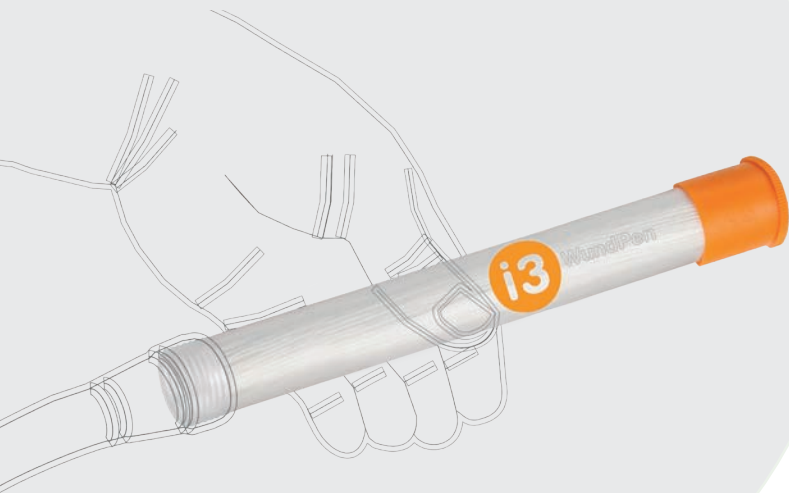
Compact design for use in devices and instruments

Connection in the water system by means of quick-release fastening

Unambiguous traceability

Proven medical technology





## i3 WundPen sterile filter



The i3 WundPen is a point-of-use water filter for the cleansing of wounds with sterile filtered water. It is used in ambulatory and in-patient care. The sterile filter is used for the targeted cleansing of hard-to-clean chronic and postoperative wounds (e.g. Pilonidal sinus, Acne inversa and Leg ulcers). The shower jet is made up of individual fine jets and ensures almost pain-free cleansing of the wound.

### PROPERTIES

Microbial retention as per ASTM F838

Sterile filtration with a nominal pore size of 0.2  $\mu\text{m}$  (microfiltration)

Duration of use: 50 days (7 weeks)

High, stable flow rate throughout the period of use

Cleansing of wounds (chronic and postoperative wounds, wounds of people with severe burns)

Ergonomic form allows optimal cleansing of the wound

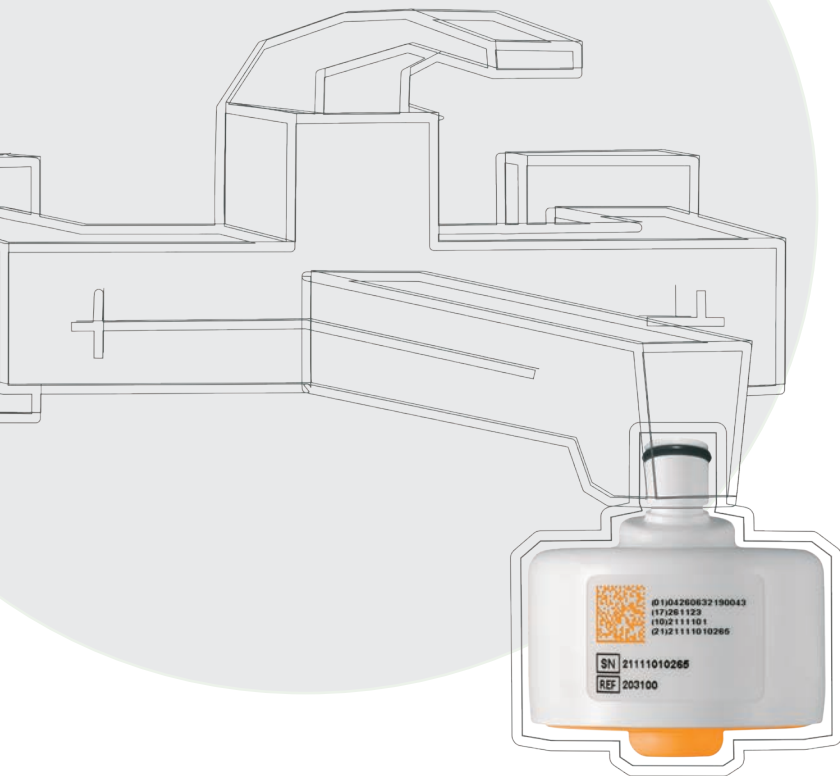
Focused shower pattern ensures that wound irrigation is almost pain free

Connected to the shower hose by means of screw thread

Reliable hygienic sealing for transportation (management of discharge from hospital)

Proven medical technology





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## i3 trackApp Filter change



The i3 trackApp is the software solution for safe, efficient and simple filter changes. Planning, implementation and documentation of the filter change is organized and carried out quickly, safely, in a structured manner and paperless. Directions, the number of filters required, and deadlines are recorded in full and presented in clear and reliable fashion. Changes that have already been made are stored in a reliable archive. User-friendly operation with a smartphone or tablet makes it possible to completely document each and every water point.

### **BENEFITS**

Enhanced capacity by conserving human resources

Control scan function, team mode and reminder function

Cloud-based, simple solution

Individual service packages optionally available

Clear planning and preparation on the PC

Operation via smartphone or tablet - even without an Internet connection

Secure, simplified and paperless documentation process

Data is protected, secure and digitally stored

Automatic directions and reporting





Your Companion  
Life Science Filtration



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Certification of quality  
management system as per  
DIN EN ISO 13485:2016

