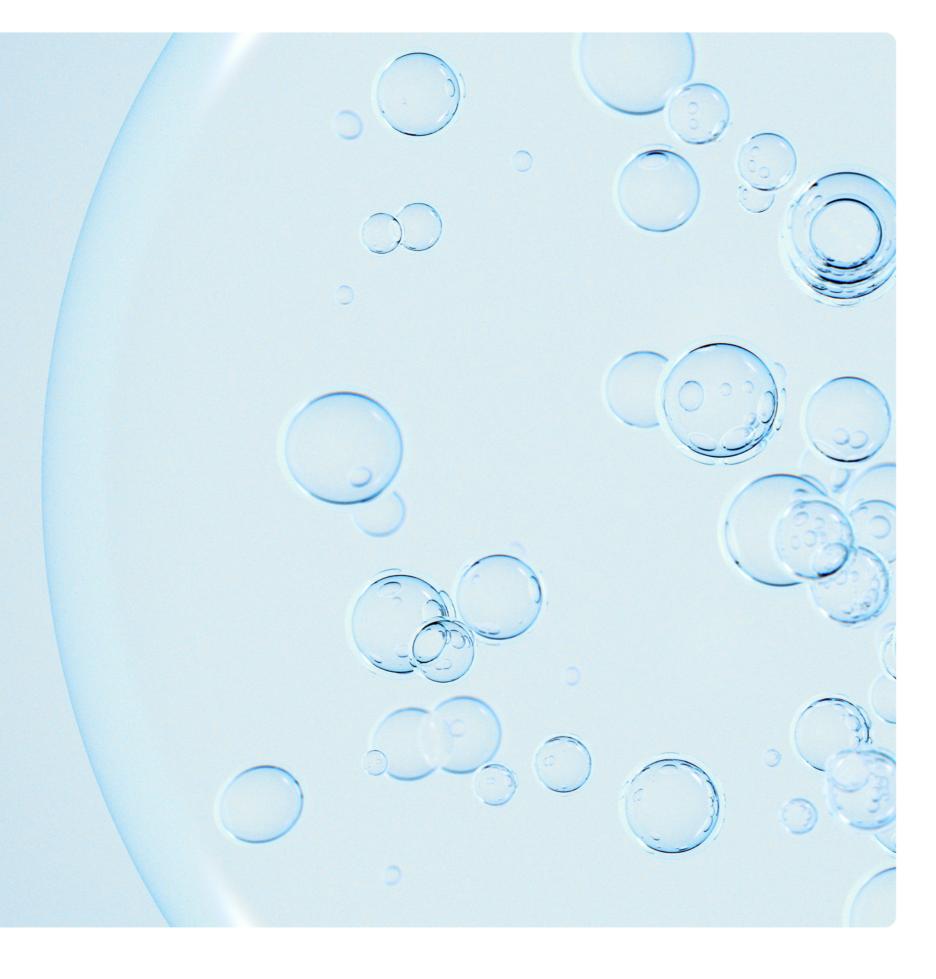
# Product Catalogue

Point-of-Use Water Filters









# **Contents**

What We Do	04
Who We Are	06
How We Work	08
Medical Water Filtration	10
Delivering Safe Water	12
Certified for Healthcare	14
Product Overview	16
Medical Tap Filter Fixed Position	18
Medical Tap Filter Side Mount	20
Tap Adapters	22
Medical Shower Filter	24
Medical In-line Filter	26
Order Information	28
Pro Water Filtration	30
Product Overview	32
Chrome Hand Shower Filter	34
Easy-Fix Shower Filter	36
Chrome Wall Shower Filter	38
Chrome In-Line Filter	40
Kitchen Spray Filter	42
Order Information	44
T-safe Technology	46
T-safe Approvals & Validation	48
5 Reasons to Choose T-safe	50



# What We Do

At T-safe, we believe everyone should be safe when using a shower or washing their hands. Our mission is to prevent infections caused by waterborne pathogens in healthcare, commercial, and public settings.

With 75+ years of expertise, we continue to lead the way by delivering safe water through our innovative filtration solutions.

We offer a diverse range of point-of-use water filters, including a medical line specifically designed to cater to the unique needs of hospitals and healthcare facilities and a professional line for commercial and public use. Both product lines provide the highest protection against bacteria in water.

By preventing infections – especially among vulnerable groups such as the elderly, young children, pregnant women, and people with weakened immune systems – we aim to reduce the global disease burden and promote public health.

# Who We Are

Founded in 1946, T-safe is a third-generation family-owned business led by Anders Tandrup.

Inspired by his father and grandfather's pioneering work in innovative water solutions, Anders has embraced the company's entrepreneurial spirit and utilized it to solidify our strong market position. This includes our in-house manufacturing capabilities, which are second to none, with over 2.5 million units produced yearly.

This high production capacity, combined with our presence in 10+ international locations, enables us to meet the demands of our customers efficiently and effectively while maintaining the highest standards of quality.

As we look towards the future, we remain committed to driving innovation and safe water solutions with a strong focus on R&D and sustainable solutions.





# **How We Work**

At the heart of our business is a group of highly curious and passionate people who care deeply about finding the best solution for our customers.

Our experienced sales team provides exceptional customer service by understanding complex customer challenges and offering tailored solutions.

We value trustworthiness, integrity, and long-term partnerships. And while our commitment to innovation and safe water solutions remains unwavering, we prioritize environmental sustainability by continuously reducing water usage and disposable plastics. We do this by innovating new products and features to support these goals while at the same time keeping our focus on reducing infections caused by waterborne pathogens and thus reducing the length of hospital stays and overall health deterioration caused by waterborne bacteria.

Across our global offices, we foster a diverse and inclusive work environment that encourages personal and intellectual growth. We embrace individuals with special needs, providing meaningful job opportunities and support for all.

Why? For us, collaboration and uplifting customers, coworkers, and partners are not just integral to our company culture. It is the essence of who we are and how we work.

Product Catalogue Medical Water Filtration

# Medical Water Filtration

The T-safe Medical Water Filtration range is designed to offer reliable protection against nosocomial infections stemming from waterborne pathogens within healthcare facilities.

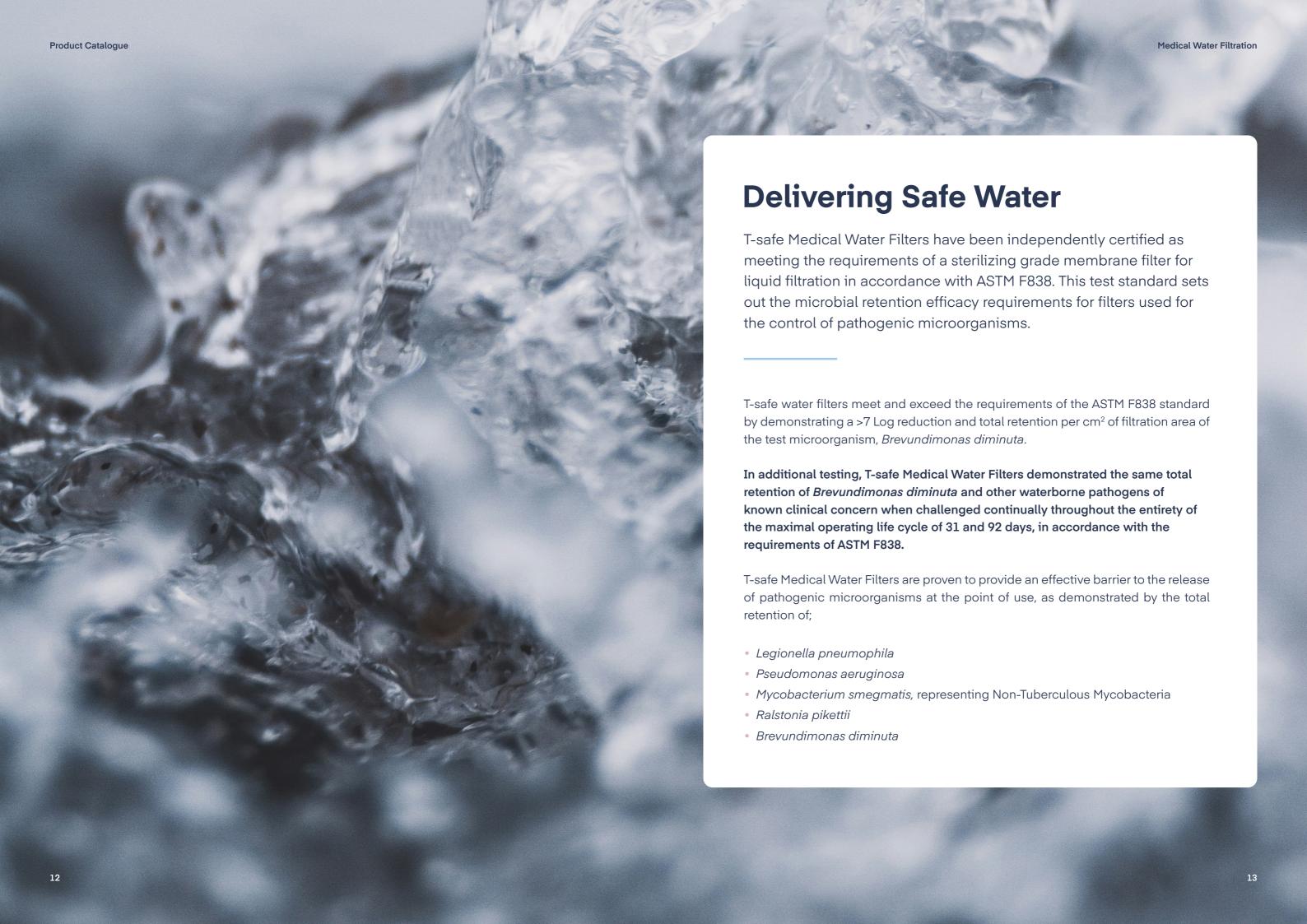
Each product within the range serves as an immediate safeguard at the point of use, effectively protecting against all waterborne microorganisms such as *Legionella pneumophila*, *Pseudomonas aeruginosa*, and Nontuberculous Mycobacteria (NTM).

In situations of heightened risk due to water contamination incidents, the T-safe water filters can be swiftly deployed as a temporary control measure, ensuring rapid response and containment.

Moreover, the filters serve as a reliable long-term solution in augmented care environments, acting as a proactive supplementary measure to protect vulnerable individuals, including the immunocompromised, from the risks of waterborne infections.

Tailored specifically for use in high-risk healthcare settings, the Medical Water Filtration range integrates cutting-edge technology and innovative features to prioritize patient safety.





Product Catalogue Medical Water Filtration

# **Certified for Healthcare**

T-safe Medical Water Filters are specifically designed and validated for use as an infection control measure in high-risk healthcare settings as a reliable barrier to the release of opportunistic waterborne pathogens.



Independently certified sterilizing grade membrane filtration in accordance with ASTM F838.



Compliant with EU Drinking Water Directive, BS 6920, WRAS approved and KIWA approved.



Microbial retention and operational performance are independently tested and validated under strict field evaluation and laboratory conditions over the entire life cycle.



Antimicrobial additive technology has been proven to reduce *Pseudomonas aeruginosa* surface bacteria growth by 99.9%, independently certified in accordance with ISO 22196.



Compatible with all healthcare-centric taps and complementary to water treatment and cleaning practices.



Traceability and tracking through a unique GS1-compliant DataMatrix identification system.



Developed and produced in accordance with ISO 9001 and ISO 13485 quality management systems.

Product Catalogue

Medical Water Filtration



# Product Overview



Medical Tap Filter Fixed Position 31 & 92 Day



Medical Tap Filter Side Mount 31 & 92 Day



**Tap Adapters** 



Medical Shower Filter 31 & 92 Day



**Medical In-Line Filter** 92 Day

# Medical Tap Filter Fixed Position

31 & 92 Day

The Medical Tap Filter Fixed Position is specifically designed for healthcare tap outlets including wall-mounted taps, swan neck taps, and surgical scrub sink stations. With careful consideration for space dynamics, this filter seamlessly integrates with clinical wash basins, ensuring an unobtrusive and safe handwashing practice.

# **Ideal for**

- Patient, staff, and visitor hand washing
- Clinical wash basins
- Wall-mounted and swan neck taps
- Surgical scrub sinks
- Cleaners sluice/sink outlets
- Drinking water, water for ice preparation, and fill/rinse water for medical equipment

# **Features**

- 0.2 µm rated sterilizing grade membrane filter
- Laminar flow outlet reduces splashing
- Constant flow technology ensures optimal flow performance over life cycle
- Antimicrobial additive protection reduces the risk of retrograde contamination
- Integral check valve prevents backflow contamination and spillage during exchange
- Traceability with GS1 Data Matrix, enabling electronic tracking of filters

**Product Catalogue** 

# Medical Tap Filter Side Mount

31 & 92 Day

The T-safe Medical Tap Filter Side Mount boasts a distinctive design that addresses tap compatibility issues commonly associated with traditional filters. With its unique side mount and adjustable outlet position, it allows the precise direction of water flow away from the drain point, maximizing the usable activity space for unique handwashing whilst simultaneously maintaining an air gap to prevent back contamination and minimize the risk of retrograde contamination.

# **Ideal for**

- Patient, staff, and visitor hand washing
- Clinical wash basins
- Deck-mounted taps
- Shallow wash basins
- Wall- and deck-mounted sensor taps
- Cleaners sluice/sink outlets
- Basins incorporating a vertical drain point
- Drinking water, water for ice preparation, and fill/rinse water for medical equipment

### **Features**

- 0.2 µm rated sterilizing grade membrane filter
- Optimized activity space, maintains air gap, and reduces retrograde contamination
- Laminar flow outlet reduces splashing
- Constant flow technology ensures optimal flow performance over life cycle
- Antimicrobial additive protection reduces the risk of retrograde contamination
- Integral check valve prevents backflow contamination and spillage during exchange
- Traceability with GS1 Data Matrix, enabling electronic tracking of filters

**Product Catalogue** 



# **Tap Adapters**

The T-safe Tap Adapter system is designed to facilitate the seamless installation of T-safe Medical Tap Filters onto a diverse array of taps commonly utilized within the healthcare sector.

# **How It Works**

The T-safe Tap Adapter system ensures a safe connection between the T-safe Medical Tap Filters and all tap outlets prevalent in healthcare environments, employing a user-friendly push-fit mechanism. Our range encompasses a variety of tap adapters and tap connectors, available in adaptable configurations and thread diameters, with a universal connector catering to non-threaded tap outlets.

For expert assistance in selecting the appropriate tap adapter, the dedicated T-safe team is readily available to provide guidance. Reach out to your local sales representative for personalized support in navigating the selection process.



# **Medical Shower Filter**

31 & 92 Day

The T-safe Medical Shower Filter is a modern, ergonomic, and lightweight high-capacity point-of-use shower filter designed to provide an exceptional showering experience even in low pressure water systems. With a standard 1/2-inch female BSP threaded connection, it can be easily installed on existing standard hoses for use in patient showering, assisted bathing, and wound care.

# **Ideal for**

- Patient and staff showering
- Assisted bathing
- Wound care

### **Features**

- 0.2 µm rated sterilizing grade membrane filter
- Modern, ergonomic lightweight design
- Constant flow technology ensures optimal flow performance over life cycle
- Antimicrobial additive protection reduces the risk of retrograde contamination
- Integral check valve prevents backflow contamination and spillage during exchange
- Traceability with GS1 Data Matrix, enabling electronic tracking of filters



# **Medical In-Line Filter**

# 92 Day

Compact and ergonomic, the Medical In-Line Filter offers a high-capacity, long-lifecycle filtration solution in applications where a tap- or shower filter cannot be installed. It serves as a versatile retrofit option for a wide range of water system installations, such as heater-cooler units, ice machines, drinking water dispensers, and endoscopic washers.

# **Ideal for**

- Concealed supply to tap and shower outlets
- Ice-making machines
- Water dispensers
- Heater cooler units fill water
- Endoscopic washer rinse water

### **Features**

- 0.2 µm rated sterilizing grade membrane filter
- Compact design enables installation in areas with restricted space
- Constant flow technology ensures optimal flow performance over life cycle
- Antimicrobial additive protection reduces the risk of retrograde contamination
- Integral check valve prevents backflow contamination upstream
- Traceability with GS1 Data Matrix, enabling electronic tracking of filters



Product Catalogue Medical Water Filtration

# **Order Information**

# **Medical Water Filtration Products**

Item	Code
Medical Tap Filter Fixed Position 31 Day Laminar Flow	02-831401
Medical Tap Filter Fixed Position 31 Day Laminar Flow (sterile packed)	02-831402
Medical Tap Filter Fixed Position 31 Day Spray Flow	02-831411
Medical Tap Filter Fixed Position 31 Day Spray Flow (sterile packed)	02-831412
Medical Tap Filter Fixed Position 92 Day Laminar Flow	02-831405
Medical Tap Filter Fixed Position 92 Day Laminar Flow (sterile packed)	02-831406
Medical Tap Filter Fixed Position 92 Day Spray Flow	02-831415
Medical Tap Filter Fixed Position 92 Day Spray Flow (sterile packed)	02-831416
Medical Tap Filter Side Mount 31 Day Laminar Flow	02-831203
Medical Tap Filter Side Mount 31 Day Laminar Flow (sterile packed)	02-831207
Medical Tap Filter Side Mount 31 Day Spray Flow	02-831202
Medical Tap Filter Side Mount 31 Day Spray Flow (sterile packed)	02-831206
Medical Tap Filter Side Mount 92 Day Laminar Flow	02-831201
Medical Tap Filter Side Mount 92 Day Laminar Flow (sterile packed)	02-831205
Medical Tap Filter Side Mount 92 Day Spray Flow	02-831200
Medical Tap Filter Side Mount 92 Day Spray Flow (sterile packed)	02-831204
Medical Shower Filter 31 Day	02-803310
Medical Shower Filter 31 Day (sterile packed)	02-803311
Medical Shower Filter 92 Day	02-803330
Medical Shower Filter 92 Day (sterile packed)	02-803331
Medical In-line Filter 92 Day	02-803231
Medical In-line Filter 92 Day (sterile packed)	02-803235

Item	Code
Adapters for T-safe Medical Tap Filter Fixed Position	
Fixed Position Adapter M24m/M22f, 6LFR	90-001862
Fixed Position Adapter M24m/M22f, FS, 6LFR	90-001863
Adapters for T-safe Medical Tap Filter Side mount	
Side Mount Tap Filter Adapter M24m / M22f, FS, 6LFR	90-001801
Side Mount Tap Filter Adapter M24m / M22f, CV, 6LFR	90-001804
Side Mount Tap Filter Adapter M24m / M22f, Long CV, 6LFR, FS	90-001806
Adapter Connectors	
Adapter Connector 1/2"f to M24f	90-001010
Adapter Connector 1/2"m to M24f	01-990248
Adaptor Connector M16m to M24f – O-ring	01-990265
Adapter Connector M18m to M24f	01-990247
Adaptor Connector M20m to M24f	01-990267
Adapter Connector M21.5mm m to M24f	01-990198
Adapter Connector M22 to M24f	90-001089
Adapter Connector M24m O-ring seal to M24f	01-990246
Adapter Connector M28m to M24f	90-001092
Universal Adapter Connector 15-29mm	90-001851

Key: (m) male (f) female CV: Check Valve FR: Flow Regulator FS: Flow Stop

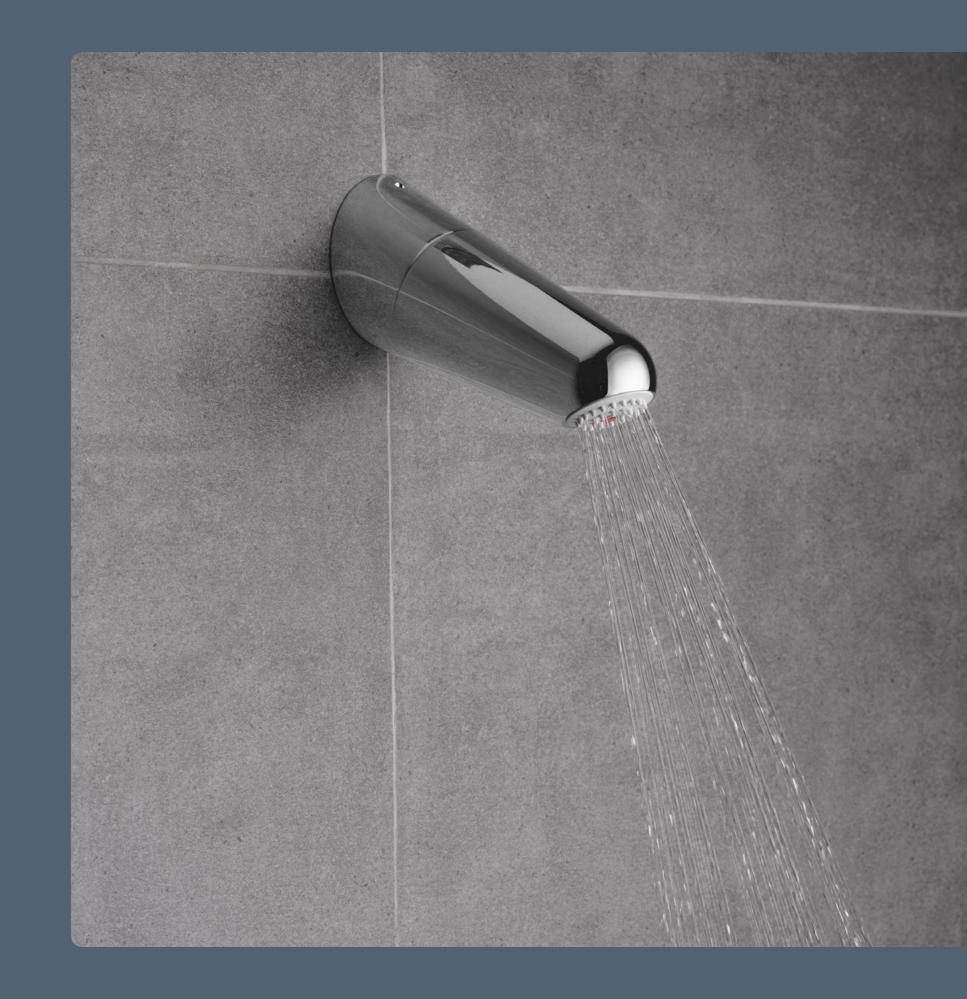
Product Catalogue Product Catalogue

# Pro Water Filtration

The T-safe Pro Water Filtration range offers a professional and secure showering solution tailored for commercial environments dealing with water systems contaminated by Legionella and other harmful waterborne bacteria.

T-safe integrates sterilizing grade filtration technology, effectively preventing the dissemination of harmful waterborne pathogens such as Legionella bacteria. This ensures uninterrupted operation and business continuity, providing peace of mind to users while remedial actions are taken to eliminate the contamination source.

With T-safe, managing water safety becomes flexible, discreet, and efficient. Our solution seamlessly balances aesthetics, flow performance, and functionality while prioritizing end-user protection, delivering a comprehensive approach to water management in commercial settings.



Product Catalogue

Pro Water Filtration



# Product Overview



**Chrome Hand Shower Filter** 



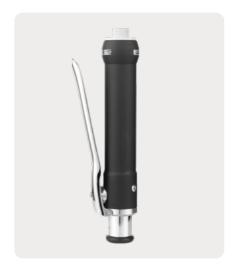
**Easy-Fix Shower Filter** 



**Chrome Wall Shower Filter** 



**Chrome In-Line Filter** 



**Kitchen Spray Filter** 

# **Chrome Hand Shower Filter**

The Chrome Hand Shower Filter provides a compact, high-capacity filter that integrates seamlessly into existing shower installations, serving as a discreet point-of-use water filtration solution. The user-friendly replacement filter cartridge system allows for effortless filter exchanges, reducing overall costs where long-term use is required.

# **Ideal for**

- Hotels and leisure facilities
- Public institutions
- Washrooms

# **Features**

- 0.2 µm rated sterilizing grade membrane filter
- High-capacity filter with up to 92-day life cycle
- Constant flow technology ensures optimal flow performance over life cycle
- Replacement filter cartridge system extends use and reduces overall cost
- Integral check valve prevents backflow contamination and spillage during exchange



# **Easy-Fix Shower Filter**

The Easy-Fix Shower Filter's unique design allows for versatile installation, catering to various pipework arrangements. With a standard 1/2-inch female BSP threaded connection, it seamlessly integrates into existing installations, including shower arms and wall-mounted panel showers. Additionally, it can be paired with a T-safe Chrome Shower Arm, offering both surface-mounted and back pipework connection options.

# Ideal for

- Hotels and leisure facilities
- Public institutions
- Washrooms

### **Features**

- High-capacity filter with up to 92-day life cycle
- Constant flow technology ensures optimal flow performance over life cycle
- Replacement filter cartridge system extends use and reduces overall cost
- Flexible installation, compatible with multiple pipework arrangements
- Version available for Rada shower heads: VR105, VR106, VR115, VR125 and VR145
- Integral check valve prevents backflow contamination and spillage during exchange

**Product Catalogue** 

# **Chrome Wall Shower Filter**

The Chrome Wall Shower Filter is a premium offering from T-safe, featuring an anti-vandal design combined with a replacement filter cartridge system and dual functionality. With a quick and easy installation process, featuring a standard ½-inch female BSP threaded connection and mounting plate, the filter can be effortlessly fitted to wall or panel showers.

**Pro Water Filtration** 

# **Ideal for**

- Hotels and leisure facilities
- Public institutions
- Washrooms

# **Features**

- 0.2 μm rated sterilizing grade membrane filter
- High-capacity filter with up to 92-day life cycle
- Constant flow technology ensures optimal flow performance over life cycle
- Replacement filter cartridge system extends use and reduces overall cost
- Dual functionality enables operation with or without a filter installed
- Anti-vandal design, suitable for use in public facilities
- Integral check valve prevents backflow contamination and spillage during exchange

# **Chrome In-line Filter**

The T-safe Chrome In-Line Filter is designed for commercial settings, offering a high-capacity, long life cycle filtration solution in applications where a tap- or shower filter cannot be installed. It serves as a versatile retrofit option for a wide range of water system installations, such as drinking water dispensers and supply pipework, to ligature-resistant tap and shower outlets.

# **Ideal for**

- Drinking water dispensers and vending machines
- Ice machines
- Supply pipework to ligature-resistant tap and shower outlets

# **Features**

- 0.2 µm rated sterilizing grade membrane filter
- High-capacity filter with up to 92-day life cycle
- Compact design enables installation in areas with restricted space
- Constant flow technology ensures optimal flow performance over life cycle
- Replacement filter cartridge system extends use and reduces overall cost
- Integral check valve prevents backflow contamination upstream

**Product Catalogue** 

# Kitchen Spray Filter

Designed specifically for use in commercial kitchen settings, the unique T-safe Kitchen Spray Filter boasts a range of features that guarantee end-user protection from waterborne bacteria without sacrificing flow performance or functionality. The Kitchen Spray Filter features a replacement filter cartridge system and dual functionality, offering cost savings and flexibility in use.

# Ideal for

- Pot washers
- Fruit and vegetable rinsing
- Commercial kitchens
- Hospital kitchens

# **Features**

- 0.2 μm rated sterilizing grade membrane filter
- High-capacity filter with up to 92-day life cycle
- Constant flow technology ensures optimal flow performance over life cycle
- Intelligent spray nozzle design ensures high-velocity water delivery
- Replacement filter cartridge system extends use and reduces overall cost
- Dual functionality enables operation with or without a filter installed
- Integral check valve prevents backflow contamination upstream

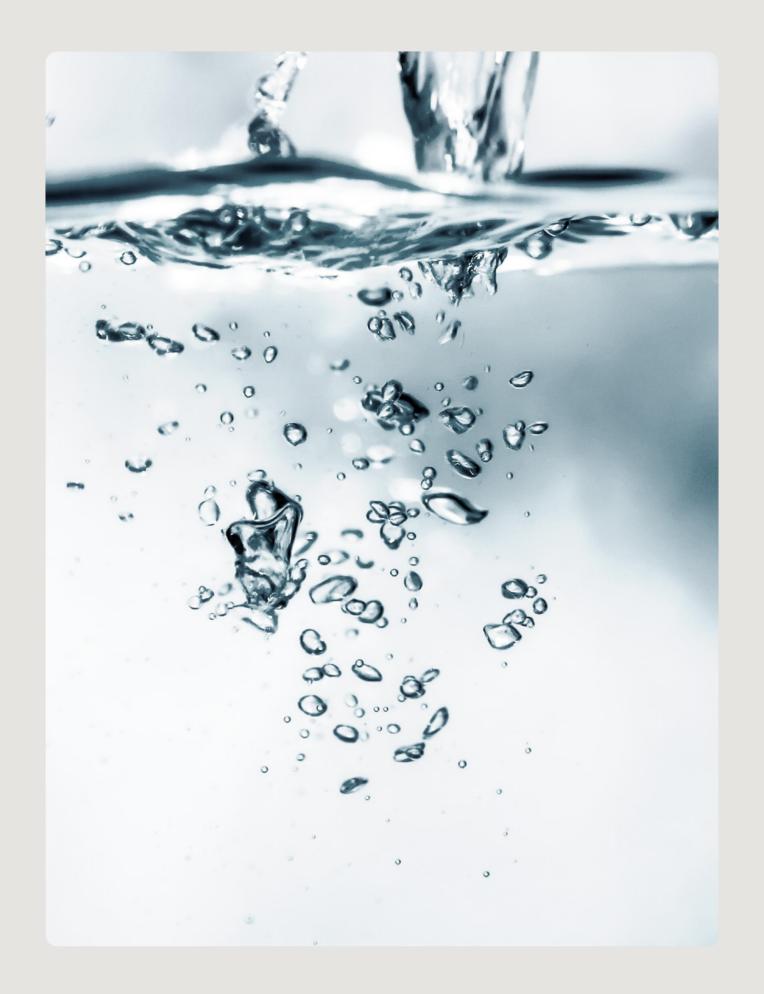


Product Catalogue Pro Water Filtration

# **Order Information**

# **Pro Water Filtration Products**

Item	Code
Chrome Hand Shower Filter	02-803102
Replacement Filter	02-000077
Easy-Fix Shower Filter	02-092031
Replacement Filter	02-000200
Replacement Filter w. Housing	02-000201
Chrome Wall Arm w. Back Pipework Connection	02-009613
Chrome Wall Arm w. External Pipework Connection	02-009612
Chrome Wall Shower Filter	02-803150
Replacement Filter	02-000143
Dummy Cartridge	02-000145
Chrome In-Line Filter	02-803236
Replacement Filter	02-000242
Kitchen Spray Filter	02-803200
Replacement Filter	02-000153
Dummy Cartridge	02-000092



Product Catalogue

T-safe Technology

# T-safe Technology

Setting a new standard in filter performance



# **Antimicrobial Additive**

T-safe Medical Water Filters feature 'built-in' antimicrobial additive technology that reduces the risk of retrograde contamination, improving infection prevention and control in high-risk healthcare environments. Added to the base plastic material during manufacturing, the non-leaching antimicrobial additive technology provides continuous 24/7 protection against surface bacteria growth.



# **Check Valve**

All T-safe water filters have a built-in check valve mechanism designed to prevent backflow contamination upstream to local pipework installations during use. This also ensures the protection of end users from exposure to water spillages from the filter that may contain potentially high concentrations of pathogenic microorganisms during filter exchange or unauthorized filter removal.



# **Constant Flow**

With high-capacity membrane media, T-safe offers protection for up to 31 and 92 days from installation, delivering the longest validated life cycle on the market without compromising flow performance or end-user comfort.



# **Electronic Tracking**

The GS1-compliant DataMatrix identification system featured on all T-safe medical products enables electronic tracking and management of filter deployment.



# **Sterilizing Grade Membrane**

All T-safe water filters are validated as a 0.2 µm sterilizing grade membrane filter that provides an effective barrier to the release and total retention of clinical waterborne pathogens at the point of use. This has been proven through exhaustive laboratory tests in accordance with ASTM F838 and through independent field evaluations conducted at major UK hospitals. A high surface area to volume ratio enables a large membrane surface area to be housed within a compact filter design, supporting long life cycle filter applications.

Immediate protection from waterborne pathogens

# -safe Approvals

# **Microbial Retention Efficacy**

T-safe water filters are proven to meet the requirements for sterilizing grade membrane filtration for the control of pathogenic microorganisms in healthcare settings.

The microbial retention efficacy of T-safe water filters has been subject to exhaustive independent testing and certification through a series of laboratory challenge tests, laboratory life cycle challenge tests, and field evaluations undertaken in major acute UK hospitals.

### Laboratory ASTM F838 Testing

T-safe water filters demonstrated total retention efficacy when challenged with >7 CFU per cm<sup>2</sup> filtration area of *B. diminuta* in independent laboratory tests undertaken in accordance with ASTM F838.

### Laboratory Life Cycle Testing ASTM F838 Testing

T-safe water filters demonstrated total retention efficacy when challenged with >7 CFU per cm<sup>2</sup> filtration area of *Brevundimonas diminuta*, *Legionella pneumophila*, *Pseudomonas aeruginosa*, *Mycobacterium smegmatis* (representing NTMs), and *Ralstonia picketti* in independent laboratory tests undertaken over the entire filter life cycle of 31 and 92 days.

### Field Studies Evaluation

T-safe water filters demonstrated total retention efficacy of both *Legionella spp.* and *Pseudomonas aeruginosa* during independent field evaluation studies conducted in significantly contaminated water systems at major acute UK hospitals.

### **Tolerance to Surface Disinfectants**

T-safe water filters are compatible with common surface disinfectants and cleaning agents. This has been validated after 270 exposures (simulating 3 daily exposures for 92 days) under frequent intermittent use of the following disinfectants:

- ca. 70% ethanol solution
- 1% chlorine solution
- ca. 2% chlorine dioxide solution
- ca. 7.5% hydrogen peroxide solution
- ca. 15% quaternary ammonium solution

# **Tolerance to Water System Disinfectants**

The T-safe water filters are compatible with common water system disinfectants. This has been validated by integrity testing the filters after exposure to the following disinfectants at the concentrations and contact time listed.

- 30 ppm chlorine dioxide combined with 200 mg/L suspended solids in continuous operation throughout the life cycle
- 30 ppm hydrogen peroxide in continuous operation throughout the life cycle
- 15 ppm free chlorine in continuous operation throughout the life cycle
- 10 ppm ozone in continuous operation throughout the life cycle
- 10 ppm chloramine in continuous operation throughout the life cycle
- 1000 ppm free chlorine through a 1-hour shock treatment
- 1000 ppm hydrogen peroxide through a 1-hour shock treatment
- An aqueous solution with pH 12 through a 1-hour shock treatment
- 1000 ppm peracetic acid at 60° C through a 2-hours shock treatment

# **EU Food and Drinking Water Directive**

The materials of construction used in T-safe water filters are compliant with EU Food Regulation 10/2011, respectively Regulation 1935/2004 and in compliance with Drinking Water Directive 2020/2184. This provides assurance that the materials are safe to use for contact with food and drinking water.

# **BS 6920 & WRAS Product Approval**

The materials of construction used in T-safe filter products have been independently proven to meet the requirements for extractable leaching and microbial growth tests in accordance with BS 6920:2014. T-safe filter products hold individual WRAS-approved product certification which is fully traceable by product item number and can be viewed via the WRAS Product Directory.

# ISO 22196 – Antimicrobial Reduction

T-safe Medical Water Filters contain a bacteriostatic additive in their housing material, that provides protection from surface bacteria growth that may be caused by environmental retrograde contamination. Independent testing in accordance with ISO 22196 T-safe filters demonstrated surface bacteria growth reduction of >99.9% after 24 hours against *Pseudomonas aeruginosa*, *Legionella pneumophila*, *Escherichia coli*, and *Methicillin-resistant Staphylococcus aureus* (MRSA).

# **5 Reasons to Choose T-safe**

There are many reasons why T-safe is chosen and trusted to protect the most vulnerable end-users from waterborne pathogen infection risk in high-risk healthcare facilities.

Here are just some that our customers say make us stand out as the best-inclass water filtration solution provider to the healthcare sector today.

1 Record

We have a proven track record and are trusted to deliver safe water to more than 1,000 hospitals across Europe.

Quality
Independent product performance validation, combined with certified quality management accreditations, is our promise that T-safe meets the highest standards.

3 Performance

Our products are designed to meet the specific requirements of healthcare, enhancing end-user experience, and exceeding the performance standards of what can be expected from a water filter.

4 Collaboration

We guide you through the product selection and implementation process, ensuring that our water filter solution delivers

successful water safety control.

We are your water filtration partner; we are open and transparent, and our top priority is helping healthcare institutions safeguard end users from waterborne pathogen infection.







Delivering Safe Water