

AQUATOOLS



POINT-OF-USE FILTERS

FOR LEGIONELLA & OTHER WATERBORNE BACTERIA

ASSOCIATED PRODUCTS FOR WATER HYGIENE



AQUATOOLS, COMPREHENSIVE WATER EXPERTISE SERVING HEALTH AND HYGIENE.

AQUATOOLS, expert in water hygiene at the point-of-use, is a French company founded in 2006. The company specialises in the manufacture of point-of-use filters for *Legionella* and other waterborne pathogens* for healthcare facilities and non-medical public buildings (hotels, schools, prisons, campsites, etc.).

Thanks to sustained investment in Research and Development, and close collaboration with scientific experts, AQUATOOLS has quickly established itself as a key player in the point-of-use filtration sector.

The exceptional quality and performance of our filters position us, today, as a market leader in France and a leading player on the international scene, with subsidiaries opening in the United States in 2017, in the United Kingdom in 2023, and in Germany in 2024.

*Other waterborne pathogens include *Legionella pneumophila* and *Pseudomonas aeruginosa*.

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2006



AQUATOOLS
COMPANY
FOUNDED IN
FRANCE

2008



R&D DEPARTMENT
CREATED,
SPECIALISING IN
POINT-OF-USE WATER
FILTRATION

2011



1ST GENERATION
OF FILT'RAY
POINT-OF-
USE FILTERS
LAUNCHED

2016



AQUATOOLS
HEADQUARTERS
ESTABLISHED IN
POISSY, FRANCE
AND 2ND GENERATION
OF FILT'RAYPOINT-
OF-USE FILTERS
LAUNCHED

2017



AQUATOOLS INC.
CREATED
IN BOSTON,
USA

2021



LAUNCH OF THE
"ESSENTIALS" RANGE
FOR POINT-OF-USE
WATER HYGIENE
AND THE FILT'RAY
COMPACT RANGE

2022



AQUATOOLS
HEAD OFFICE
MOVES TO
FRIVILLE,
FRANCE

2023



AQUATOOLS UK LTD
SUBSIDIARY OPENED
IN WALLINGFORD,
UNITED KINGDOM

2024



AQUATOOLS GMBH
SUBSIDIARY OPENED
IN DORTMUND,
GERMANY

QUALITY & OUR ENVIRONMENTAL POLICY

BECAUSE QUALITY AND THE ENVIRONMENT ARE DEEPLY EMBEDDED IN OUR DNA, AQUATOOLS IS ENGAGED IN VARIOUS CERTIFICATION PROCESSES.

For us, a commitment to the environment and to quality are part of an inseparable whole which is evidenced through our various activities, and the continuous pursuit of those activities over time.

OUR CERTIFICATION:

ECOVADIS



In February 2026, AQUATOOLS was awarded the EcoVadis Gold medal, with a score of 83/100, as a testament to its CSR commitment. This is the fourth EcoVadis assessment for AQUATOOLS, recognising the company's efforts in relation to the 7 core subjects of ISO 26000. This assessment demonstrates the company's commitment and outstanding performance in the areas of environment, social and human rights, and ethics.



Social responsibility: the 7 core questions

UNITED NATIONS GLOBAL COMPACT

As part of our commitment to sustainable and responsible business practices, AQUATOOLS has integrated the Ten Principles of the United Nations Global Compact into its strategies and operations, and has committed to respecting human rights and international labour standards, protecting the environment and fighting corruption in all its forms.

ISO 14001



The team at AQUATOOLS, men and women alike, has been following an environmental and social responsibility strategy for several years. The achievement and subsequent renewal of ISO 14001:2015 certification is proof of this. This certification is a source of pride for AQUATOOLS and all those who are working to ensure consistently high quality on a daily basis.

ISO 9001



AQUATOOLS' management system complies with the requirements of standard 9001:2015; the company has followed this approach since 2016 to continuously provide products and services that meet the requirements of stakeholders.

ISO 13485



The AQUATOOLS quality management system complies with the requirements of the international standard EN ISO 13485:2016 for the design, production and sale of sterile and non-sterile membrane microfiltration devices for the reduction of waterborne pathogenic infections.

THEY TRUST US

AQUATOOLS has established itself as a trusted partner for numerous healthcare facilities. Thanks to its expertise and the quality of its solutions, the company is now listed by the leading healthcare purchasing groups. It has also become a key brand in Public & Commercial Places.

Our UK Partners

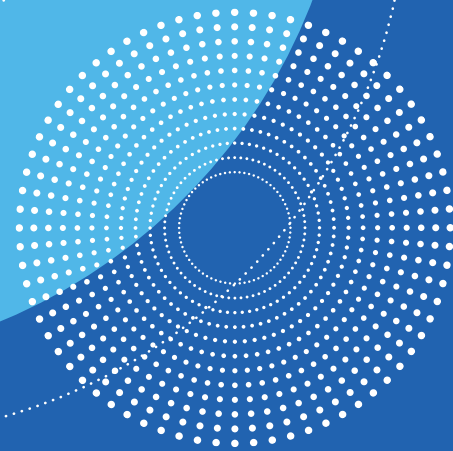
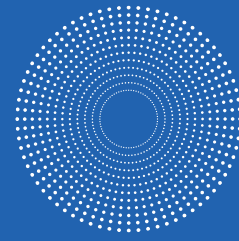


Our International partners



This is a non-exhaustive list. Please visit our website to discover our international partners.

HYGIENE & PREVENTION OF WATERBORNE INFECTIONS



MANAGING WATER-RELATED HEALTH RISKS



Monitoring *Legionella* in domestic hot water systems applies to all buildings open to the public and not just healthcare facilities, as is widely believed.

Water, an essential element particularly for hygiene, can become a vector of infection if its quality is not controlled. The proliferation of bacteria (*Legionella spp.*, *Pseudomonas aeruginosa*, etc.) in water distribution systems and taps can be the cause of serious infections, especially for the most vulnerable people.



Monitoring *Legionella* in domestic hot water systems applies to all buildings open to the public (hotels, tourist accommodation, campsites, prisons, etc.) and not just healthcare facilities, as is widely believed.

Preventing the health risks associated with waterborne pathogenic bacteria is a major concern for any building open to the public, and healthcare facilities in particular.

Controlling the water quality in public buildings is based on a comprehensive approach to risk management.

A thorough knowledge of the water distribution network, and the ability to identify the causes of deterioration of the microbiological quality of water, are essential to implementing this approach.

Both ageing water systems and new systems can be affected, so the health risk must be managed.



MANAGING AN INTERNAL WATER SYSTEM

A building's internal water distribution system, whether for tertiary or residential use, is usually supplied by the public water supply. Managing the water correctly within the building will ensure its microbiological quality.



The Health and Safety at Work Act and COSHH (Control of Substances Hazardous to Health) outline the legal requirements of duty holders for managing water quality in UK public buildings. Various documents including the Approved Code of Practice ACOP L8, Health and Safety Guidance HSG 274, Health Technical Memorandum HTM 04-01 and Health Technical Bulletin HTB 2024/03 provide guidance for the control of pathogens in domestic water distribution systems. The quality of the distributed water is not just the sole responsibility of the water supplier, but also that of the building's owner and managers.

The design and the procedure for monitoring the water network must minimise the risk to health. If the microbiological quality of the water deteriorates, *Legionella*, *Pseudomonas* or even atypical mycobacteria may

develop, all bacteria which are considered opportunistic pathogens for humans. In public and commercial buildings in the UK, and throughout Europe, the water provided for users is of a good quality.

However, it is not possible to deliver water free from all microbial risk, due to:

- the complexity and inconsistencies in the potable water distribution system,
- successive changes to the original water system inside a building,
- new water distribution systems and materials specified,
- the emergence of new bacteria.

**AQUATOOLS POINT-OF-USE FILTERS:
THE SOLUTION TO GUARANTEE
WATER QUALITY AND PROTECT THE
USER'S HEALTH.**





POINTS-OF-USE AT RISK & THE PEOPLE WHO NEED PROTECTING

The points-of-use that pose the highest risk to users are those that are most likely to expose patients or residents to aerosols and microdroplets smaller than 5µm; in particular, showers and taps.

The people most at risk are those that are potentially vulnerable to opportunistic pathogens (e.g. *Legionella*) due to their state of health. Most at risk are those suffering from chronic disease, elderly people, people receiving long term corticosteroid treatment, immuno-compromised people, etc.

In 2024, 472 cases of legionellosis were declared in the United Kingdom.

Only 4.5% of legionellosis cases were linked to healthcare facilities.

However, 43.8% of cases were based in the community.

UK Health Security Agency

CURRENT REGULATIONS & GUIDANCE

The buildings that are subject to this guidance are those with a centralised water distribution system which exposes the public to water points-of-use which emit aerosols that can disperse *Legionella*. Hotels, tourist accommodation, campsites, healthcare facilities, retirement homes, colleges, universities, schools, public swimming pools... are all Public Buildings which are affected by the regulations.

Technical Guidance HSG 274 Part 2: The control of legionella in hot and cold water systems (HSE 2024) provides practical advice on how to assess and control the risks due to legionella bacteria

General health and safety law requires dutyholders and those that manage buildings to ensure the health and safety of their employees and members of the public that use the building: "They must take suitable precautions to prevent or control the risk of exposure to legionella." They must understand or employ someone competent who knows how to identify the sources of risk, manage those risks, prevent and control them.

NHS Estates Technical Bulletin No. 2024/3 enhances Health Technical Memorandum 04-01: Safe water in Healthcare premises, providing guidance on how to protect patients at high risk of healthcare associated infections (NHS England 2024)

In healthcare facilities all water distribution systems should be designed to keep cold water below 20°C and to distribute hot water so that it reaches the outlets at 55°C within 15 seconds (50°C in all other public buildings). If installed and managed correctly, point-of-use filters with 0.2µm absolute sterilising-grade filtration can minimise the risk of infection: "The use of POU filtration has been shown to be successful at significantly reducing the numbers of NTM* from outlets (Norton, Williams, Falkinham, & Honda, 2020)..."

*NTM: Non-tuberculous mycobacteria

Microbiological monitoring of domestic hot and cold water supplied from the mains is not usually required unless the risk assessment or system checks indicate there is a problem

Monitoring is required:

- Where water is stored at reduced temperature in systems treated with biocides
- Where control levels e.g. temperature or disinfectant concentrations are not consistently achieved
- High-risk areas e.g. healthcare facilities and care homes
- An outbreak of legionellosis is suspected or identified

Alert levels:

Legionella spp < 100 CFU/L*

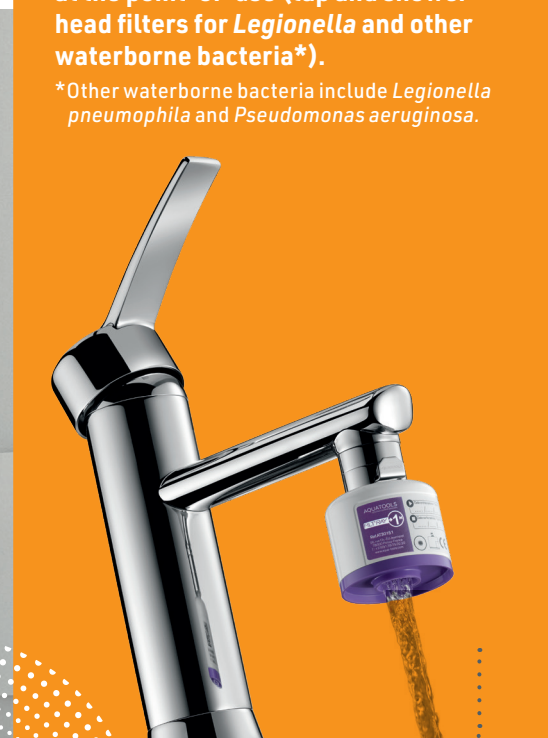
P. aeruginosa < 1 CFU/L

* CFU/L: Colony forming units/Litre

AQUATOOLS FILTRATION DEVICES

They meet the requirements of current guidance and are a means of restoring the bacteriological quality of water at the point-of-use (tap and shower head filters for *Legionella* and other waterborne bacteria*).

*Other waterborne bacteria include *Legionella pneumophila* and *Pseudomonas aeruginosa*.



OUR FILTRATION SOLUTIONS FOR LEGIONELLA AND OTHER WATERBORNE BACTERIA*

AQUATOOLS offers two complementary ranges of single-use point-of-use filters for *Legionella* and other waterborne bacteria*, in sterile and non-sterile versions:



FILT'RAY:
Tap and wall-mounted shower filters, shower head filters and inline filters (p. 18).



FILT'RAY COMPACT:
Spout filter, tap and wall-mounted shower filters, and shower head filters (p. 24).



These filters are designed to deliver **bacteriologically controlled water** at the point-of-use. These devices retain waterborne opportunistic pathogenic micro-organisms such as *Legionella* spp., *Legionella pneumophila* and *Pseudomonas aeruginosa* among others, thanks to a hollow fibre microfiltration membrane with a nominal porosity rating of 0.1µm.

This microfiltration technology ensures a bacteriological quality superior to that of the drinking water system, without changing the chemical composition of the water.

AQUATOOLS filters are designed to **secure the water quality at the point-of-use**. They are recommended for **managing and preventing so-called healthcare-associated infections**.

PROTECTING VULNERABLE PEOPLE

AQUATOOLS 1, 2, 3 and 4-month point-of-use filters provide a physical barrier against *Legionella* and other waterborne bacteria*. Immuno-compromised and vulnerable people are protected thanks to the microfiltration membrane.

The filters are necessary for the care of **immuno-compromised** patients hospitalised in high-risk areas such as bone marrow and organ transplant units, oncology departments, intensive care units, resuscitation units, neonatal units, and any other care setting for this type of patient. They also provide protection against the risk of *Legionella* in public buildings (leisure or sports centres, hotels, etc.), **ensuring compliance with regulations**.

*Other waterborne bacteria include *Legionella pneumophila* and *Pseudomonas aeruginosa*.

BACTERIAL CHALLENGE

AQUATOOLS filters are approved using the ASTM F838* method. This test confirms the effective retention power of the filters used for the decontamination of liquids. The microbial challenges carried out on AQUATOOLS filters in laboratories using the species *Brevundimonas diminuta*, *Legionella pneumophila* and *Pseudomonas aeruginosa* demonstrate a retention efficiency of log 7 for all waterborne micro-organisms which are larger than the filter pores which have a nominal porosity rating of 0.1µm and absolute porosity rating of 0.2µm. When subjected to this test, all AQUATOOLS filters delivered an effluent free from bacteria, so they have a sterilising grade of 0.1µm nominal-rated.

* Standard Test Method for Determining Retention of Membrane Filters Utilized for Liquid Filtration.

LIFESPAN

AQUATOOLS filters for *Legionella* and other waterborne bacteria* can be used for up to 4 months after initial installation (depending on the model installed). After the time period marked on the filter (1, 2, 3 or 4 months), AQUATOOLS recommends changing the filter to avoid any risk of retro-contamination from the bacteria concentrated in the filter especially in at-risk areas.

TOTAL CONTROL OF THE MANUFACTURING PROCESS

The fibre quality and porosity are continuously monitored during the manufacturing process.

COMPONENT DISPOSAL STRATEGY

AQUATOOLS filters are classified as household waste. The outer packaging is made from recycled cardboard which is also fully recyclable.

PRE-FILTRATION IS RECOMMENDED!

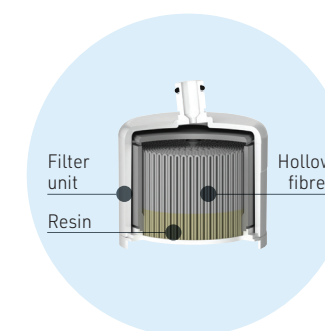
Domestic water systems carry varying amounts of impurities. Filters can therefore become clogged more or less quickly than expected. If clogging occurs prematurely, it is necessary to replace the filter. Pre-filtration upstream, at different points in the system, is recommended to remove suspended solids and/or colloids. There is significantly less bacterial growth in a pre-filtered system, and the lifespan of all equipment is greatly increased.



Bacteriologically controlled water



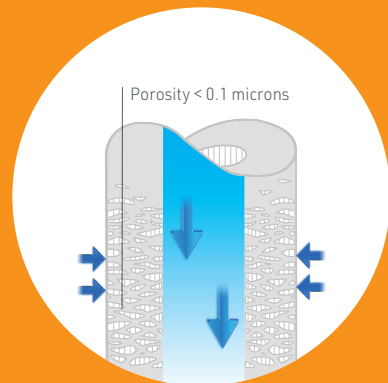
Maximum lifespan



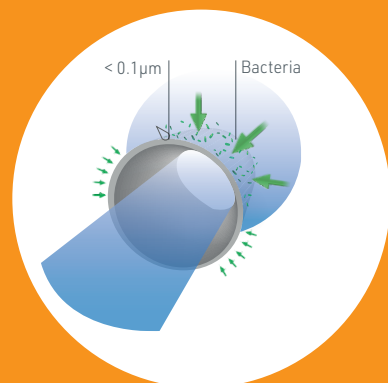
Cross-section of the AQUATOOLS tap filter



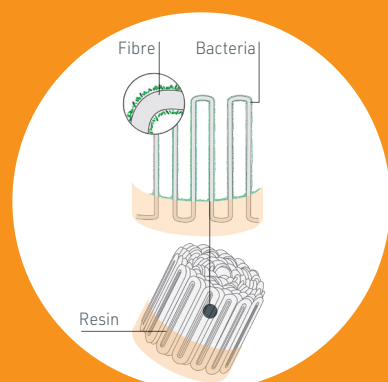
Hollow fibre membrane



Microporous structure



External/internal frontal filtration

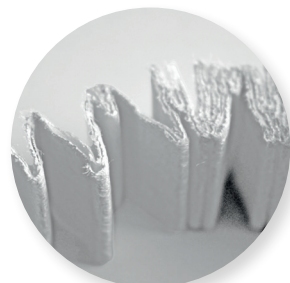


Large filtration area
Optimised bacteria storage

TECHNOLOGY AT THE SERVICE OF FILTRATION

HOLLOW FIBRE FILTERS

There are two main types of membrane used in point-of-use micro-filtration: flat membrane or tubular membrane.



Flat membrane



Tubular membrane

AQUATOOLS chose to use hollow fibre tubular membrane filtration technology.

AQUATOOLS filters are made up of a collection of polyethylene hollow fibres grouped together into a unit. The fibres are extremely fine and flexible, with an outer diameter of 0.6mm and a thickness of several tens of microns.

The fibres are hollow and shaped like a straw (tubular).

MICROPOROUS STRUCTURE

The hollow fibre membranes have multiple pores which vary in size from 0.01 - 0.1 microns. Each membrane consists of several surfaces with microporous structures (micro slits).

Bacteria and any particles in suspension that are larger than 0.1µm are trapped by these structures and are retained permanently on the external surface of the membrane.

EXTERNAL/INTERNAL FRONTAL FILTRATION

AQUATOOLS uses a frontal filtration system. The water requiring treatment flows at right angles to the filter surface and passes through the membrane due to the pressure difference on either side of the membrane.

The water flows from the external to the internal surface of the fibre.

Bacteria and other microparticles that cannot pass through the slits in the membrane structure are retained on the outer surface and therefore do not penetrate the membrane.

FILTRATION AREA/STORAGE OF BACTERIA

The filter's large hollow fibre filtration surface area makes it possible to filter a larger volume of water.

Consequently, the storage capacity for bacteria and impurities trapped inside the filter is much greater.

HOLLOW FIBRE: NUMEROUS ADVANTAGES



SPACE SAVING

- **The hollow fibre membrane is very compact**

It allows low-volume devices to contain a large filtration surface area. AQUATOOLS filters are suitable for use with any mixer or tap, even those with a low drop height.

The reduced size of the filters, particularly their height, considerably reduces the risk of bacterial retro-contamination on the spout of the mixer or tap.

- **Less plastic**

Hollow fibre technology allows for a more compact filter design, reducing the amount of plastic used in the manufacture of the filter bodies. This translates into savings in the amount of plastic used on the product body compared to technologies using flat membranes.



SUPERIOR PERFORMANCE

- **A very large filtration area**

The high density of the fibre results in the filtration of a larger volume of water.

- **Good tolerance to clogging**

Any material in suspension remains on the surface of the tubular membrane, which reduces clogging and extends the filter lifespan.

- **High bacterial retention capacity for an extended lifespan**

AQUATOOLS point-of-use filters have a lifespan of up to 4 months.



NO CHEMICAL PRODUCTS

Unlike certain filter manufacturers on the market, who use chemicals to create the microporosity of their hollow membranes, AQUATOOLS has chosen a more health and environmentally friendly approach.

AQUATOOLS point-of-use filters' manufacturing processes are completely free of additives.

*Other waterborne bacteria include *Legionella pneumophila* and *Pseudomonas aeruginosa*.

RESISTANT TO DIFFERENT WATER SYSTEM TREATMENTS

AQUATOOLS filters will withstand thermal and chemical shocks. During chemical or thermal shocks, impurities become trapped in the filter and reduce its lifespan. AQUATOOLS, therefore, recommends **changing the filter after any treatment**.

RESISTANCE TO THERMAL SHOCKS:

Temperatures of 70°C for a cumulative period of 30 minutes during its lifetime.

RESISTANCE TO CHEMICAL SHOCKS:

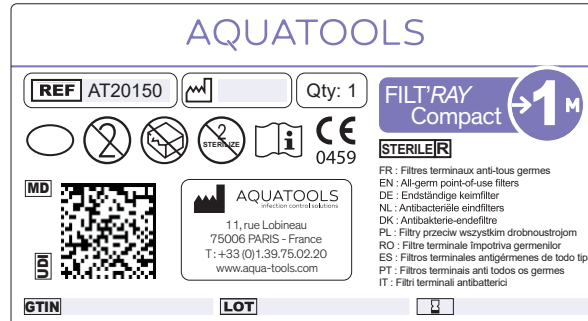
Chlorine levels for 1-month filters: 1 hour at 100ppm; 2-month filters: 2 hours at 100ppm; 3-month filters: 3 hours at 100ppm; and 4-month filters: 4 hours at 100ppm.

OPTIMISED TRACEABILITY

To control the health risks associated with water, the whole process from the manufacture of the components to the use of the finished product must be completely traceable.

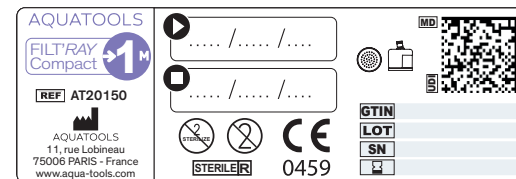
INDIVIDUAL PACKET LABEL

All AQUATOOLS filters have a unique batch number which can be easily traced back through the production process.



DOUBLE LABELLING ON THE FILTER

All filters are supplied with 2 waterproof labels which identify the product and ensure traceability when the filter is changed. One is positioned on the product, the other can be removed and transferred to the record log, ensuring traceability.



Find out about **FILT'RAY Scan** (page 39), our mobile App: an essential tool for traceability management and point-of-use filter replacement.

STERILISATION COMPLIES WITH EUROPEAN STANDARD EN ISO 11137

After manufacture, AQUATOOLS sterile filters are sterilised using gamma rays. After sterilisation, AQUATOOLS filters have a shelf life of 3 years. The product expiry date is marked on the label.

WRAS CERTIFICATION (UK)

AQUATOOLS filters comply with British Standard BS 6920, and are, therefore, certified WRAS.

ECO-DESIGN AT THE HEART OF OUR PRODUCT DEVELOPMENT



In an effort to reduce its environmental impact, AQUATOOLS has expanded its range of point-of-use filters, adopting less bulky models that require less plastic.

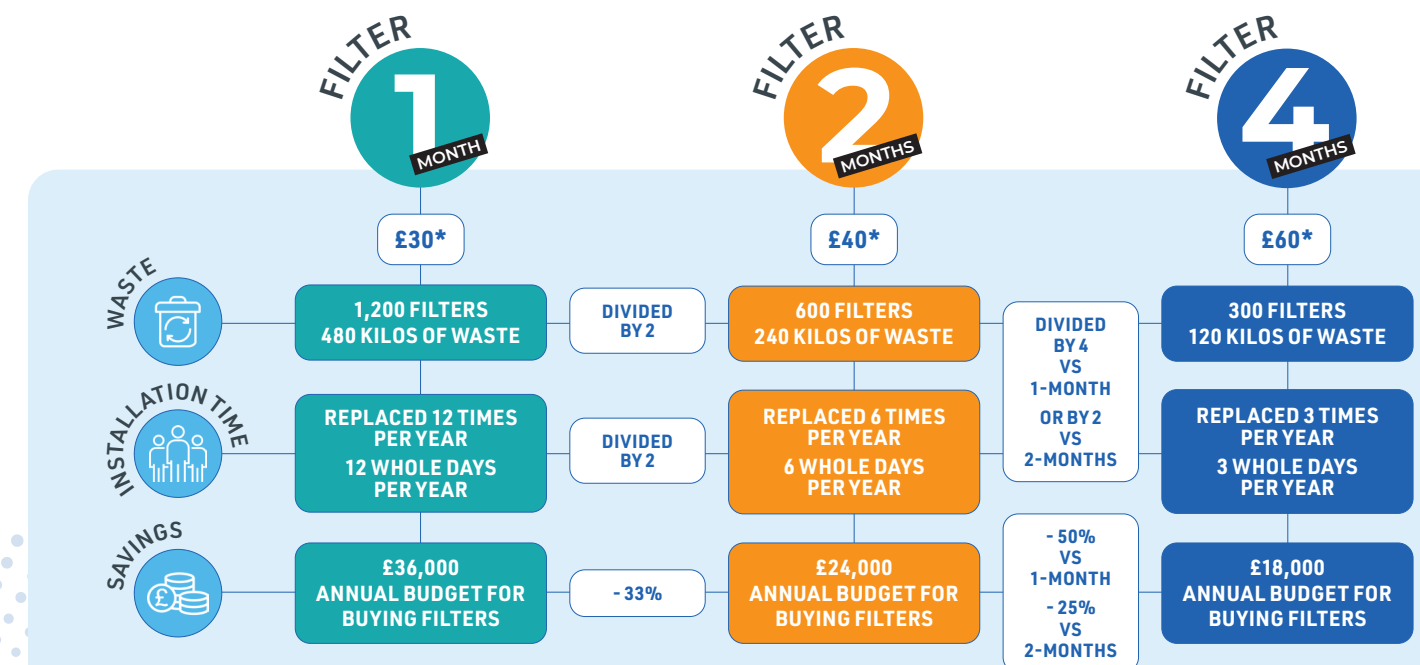
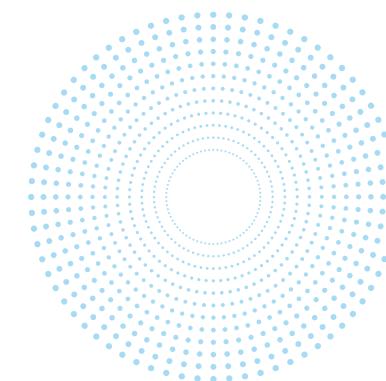
The expertise that we have gained during the design and manufacture of the point-of-use filters has made it possible to develop point-of-use filters with lifespans of 1, 2, 3 and 4 months. As a result, our products contribute to environmental preservation by limiting the use of precious resources, particularly water.

But the benefits don't stop there: they also help to reduce the amount of plastic used, reduce the transportation burden, and also reduce the frequency of replacement.

We recommend that our clients choose the appropriate filter lifespan based on various factors (water quality, the level of infection risk in the hospital area, etc.).

One-month filters are only necessary in very high-risk areas (e.g. where surgical instruments are decontaminated, burns units, surgical sinks, etc.).

So, instead of using one-month filters, we recommend installing filters with a longer lifespan (two months, or even three or four months).



REUSING FILTERS: A BAD IDEA

AQUATOOLS has researched the possibility of a solution where filters are cleaned to give them a second life. However, we found several disadvantages:

- **CARBON IMPACT DUE TO TRANSPORTATION**

This is due to the need to remove the filters, pack them in airtight containers and return them to the manufacturing site.

- **A SIGNIFICANT ADDITIONAL INVESTMENT, WITH HIGH-CARBON IMPACT THAT IS DANGEROUS FOR STAFF**

This investment relates to the need for secure handling required to reprocess the filters. Cleaning the filters releases aerosols which contain pathogenic bacteria and requires a controlled environment, personal protective equipment (PPE) for staff, and various handling operations.

- **CLEANING IS ONLY EFFECTIVE FOR PART OF THE FILTRATION SURFACE AREA**

It is impossible to clean thousands of hollow fibres where the largest porosity is less than 0.2 microns.

For these reasons, AQUATOOLS decided not to take this option, but to recommend filters with longer lifespans to clients.

AQUATOOLS
recommends filters
with longer lifespans
to its clients.



POINT-OF-USE FILTERS

FILT'RAY & FILT'RAY COMPACT:
2 COMPLEMENTARY RANGES TO COMBAT
THE RISK OF INFECTION





FILT'RAY RANGE

This range showcases the excellence of AQUATOOLS' technology:

- **Superior performance.** Tubular membrane microfiltration provides a very high filtration capacity.
- **Rapid connection.** Shower head filters screw onto all standard shower hoses, and the tap filters have a simple push-fit connector which screws directly onto the tap outlet, so no tools are required.
- **Retro-contamination is carefully controlled.** Point-of-use filtration at the outlet and the protective skirt reduce the risk of retro-contamination.



BUBL'AIR WASH

TECHNOLOGY
AT THE SERVICE
OF FILTRATION



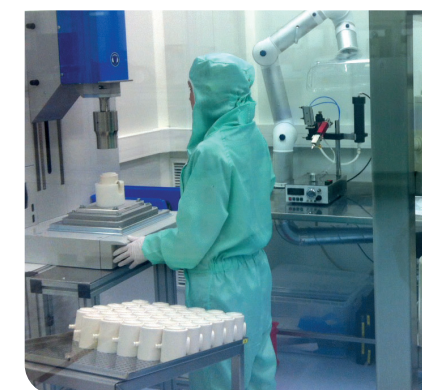
Bubl'air Wash is a mechanism which extends the lifespan of filters by introducing turbulent flow during filtration to keep particulates from becoming fully trapped on the membrane.

FILTERS CHANGING WITH THE TIMES!



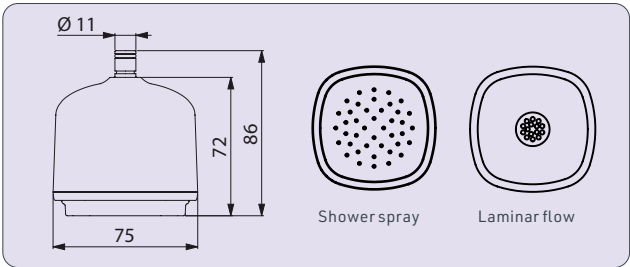
- **Up to 4 months' lifespan.** Reduced use of plastic, reduced servicing and money saving!
- **No chemicals** used during manufacture.
- **Component recovery policy:** filters are categorised as household waste.
- **The outer packaging** is made from recycled cardboard which can be recycled. The installation guide is made from paper and can be recycled.

MADE IN FRANCE



FILT'RAY filters are made and assembled in France using plastic materials also developed and moulded in France. Production meets the most stringent hygiene and quality certifications (ISO 9001 and ISO 13485). All stages of the assembly process are carried out in an ISO 7 class cleanroom.

FILT'RAY TAP FILTER
FOR *LEGIONELLA* & OTHER WATERBORNE BACTERIA*



- Single use tap filter with a sterilising grade of **0.1µm nominal-rated**, 0.2µm absolute-rated.
- Hydrophilic polyethylene hollow fibres (no chemical additives).
- External casing material: ABS.
- Maximum lifespan: **1, 2, 3 or 4 months** after installation depending on the model installed.
- Filtration flow rate: 6.3 lpm* at 3 bar and 2.2 lpm at 1 bar (filter only, excludes any flow rate restrictor in the tap).
- Maximum upstream pressure at the point-of-use: 5 bar.
- Compatible with and resistant to chemical and thermal shocks.
- Careful management of retro-contamination: **protective skirt**.
- Available in two versions:
 - Sterile filters, individually wrapped in a sterile sachet and packaged in boxes of 10.
 - Non-sterile filters, individually wrapped in a non-sterile sachet and packaged in boxes of 10.

*Average flow rate over the product's lifespan.

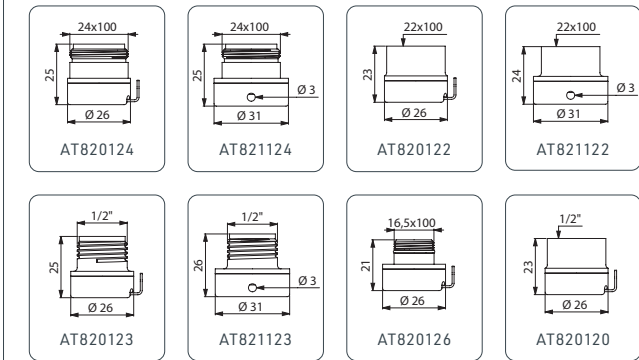
FILT'RAY TAP FILTER				
Lifespan	1 MONTH	Sterile, shower spray	AT030718	Lifespan
		Sterile, laminar flow	AT030717	
		Non-sterile, shower spray	AT030728	
		Non-sterile, laminar flow	AT030727	
Lifespan	2 MONTHS	Sterile, shower spray	AT030720	Lifespan
		Sterile, laminar flow	AT030719	
		Non-sterile, shower spray	AT030722	
		Non sterile, laminar flow	AT030721	
Lifespan	3 MONTHS	Sterile, shower spray	AT030748	Lifespan
		Sterile, laminar flow	AT030747	
		Non-sterile, shower spray	AT030739	
		Non-sterile, laminar flow	AT030729	
Lifespan	4 MONTHS	Sterile, shower spray	AT030750*	Lifespan
		Sterile, laminar flow	AT030749*	
		Non-sterile, shower spray	AT030740	
		Non-sterile, laminar flow	AT030730	

Reference is for a single unit. Can only be ordered in multiples of 10 (packaged in boxes of 10).

* Not WRAS approved.

PUSH-FIT CONNECTOR FOR TAP FILTERS

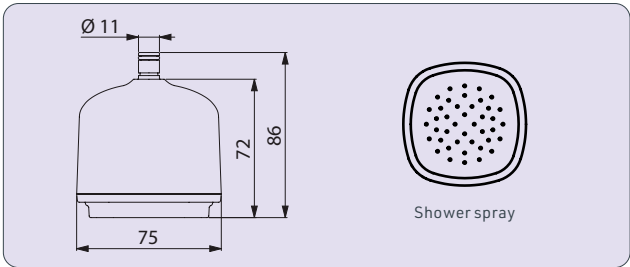
- Simple to connect to the point-of-use requiring treatment, no tools required.
- Standard or vandal-resistant versions available.



PUSH-FIT CONNECTOR	
M24x100	AT820124
M24x100, vandal-resistant version	AT821124
F22x100	AT820122
F22x100, vandal-resistant version	AT821122
M1/2"	AT820123
M1/2", vandal-resistant version	AT821123
M16.5x100	AT820126
F 1/2"	AT820120

*Other waterborne bacteria include *Legionella pneumophila* and *Pseudomonas aeruginosa*.

FILT'RAY WALL-MOUNTED SHOWER FILTER
FOR *LEGIONELLA* & OTHER WATERBORNE BACTERIA*



- Single use filter for wall-mounted showers (shower panels) with a sterilising grade of **0.1µm nominal-rated**, 0.2µm absolute-rated.
- Hydrophilic polyethylene hollow fibres (no chemical additives).
- External casing material: ABS.
- Maximum lifespan: **1, 2, 3 or 4 months** after installation depending on the model installed.
- Filtration flow rate: 13.1 lpm* at 3 bar and 3.9 lpm at 1 bar (filter only, excludes any flow rate restrictor in the shower head).
- Maximum upstream pressure at the point-of-use: 5 bar.
- Compatible with and resistant to chemical and thermal shocks.
- Careful management of retro-contamination: **protective skirt**.
- Non-sterile filters, individually wrapped in a non-sterile sachet and packaged in boxes of 10.

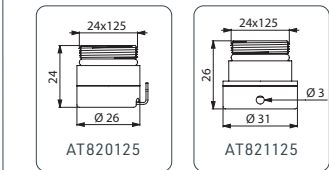
*Average flow rate over the product's lifespan.

FILT'RAY WALL-MOUNTED SHOWER FILTER				
Lifespan	1 MONTH	Non-sterile, shower spray	AT030767	Lifespan
		Non-sterile, shower spray	AT030741	
Lifespan	2 MONTHS	Non-sterile, shower spray	AT030768	Lifespan
		Non-sterile, shower spray	AT030742	
Lifespan	3 MONTHS	Non-sterile, shower spray	AT030767	Lifespan
		Non-sterile, shower spray	AT030741	
Lifespan	4 MONTHS	Non-sterile, shower spray	AT030768	Lifespan
		Non-sterile, shower spray	AT030742	

Reference is for a single unit. Can only be ordered in multiples of 10 (packaged in boxes of 10).

PUSH-FIT CONNECTOR FOR WALL-MOUNTED SHOWER FILTERS

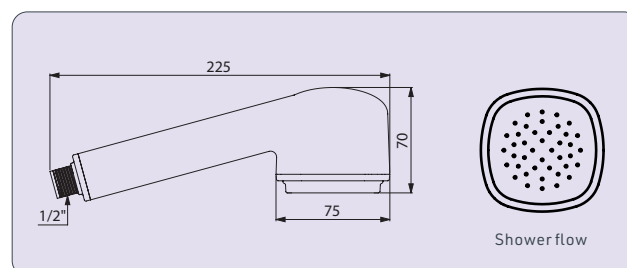
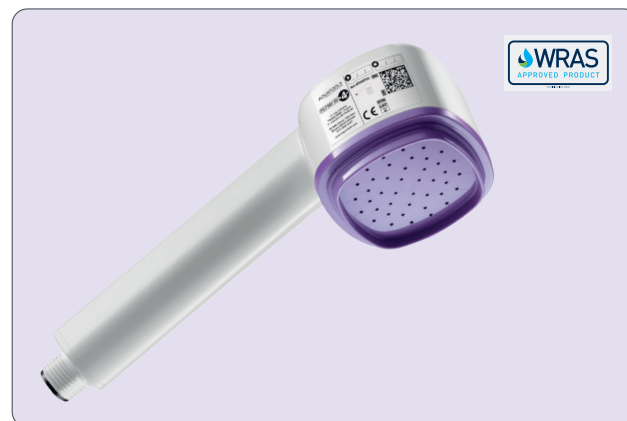
- Simple to connect to the point-of-use requiring treatment, no tools required.
- Standard or vandal-resistant versions available (see opposite).



PUSH-FIT CONNECTOR	
M24x125	AT820125
M24x125, vandal-resistant version	AT821125

*Other waterborne bacteria include *Legionella pneumophila* and *Pseudomonas aeruginosa*.

SHOWER HEAD FILTER FOR *LEGIONELLA* & OTHER WATERBORNE BACTERIA*



- Single use shower head filter with a sterilising grade of **0.1µm nominal-rated**, 0.2µm absolute-rated.
- Quick to install: screws onto all standard shower hoses.
- Hydrophilic polyethylene hollow fibres (no chemical additives).
- External casing material: ABS.
- Maximum lifespan: **1, 2, 3 or 4 months** after installation depending on the model installed.
- Filtration flow rate: 11.9 lpm* at 3 bar and 4.5 lpm at 1 bar (filter only, excludes any flow rate restrictor in the tap).
- Maximum upstream pressure: 5 bar.
- Compatible with and resistant to chemical and thermal shocks.
- Careful management of retro-contamination: protective skirt.
- Available in two versions:
 - Sterile filters, individually wrapped in a sterile sachet and packaged in boxes of 10.
 - Non-sterile filters, individually wrapped in a non-sterile sachet and packaged in boxes of 10.

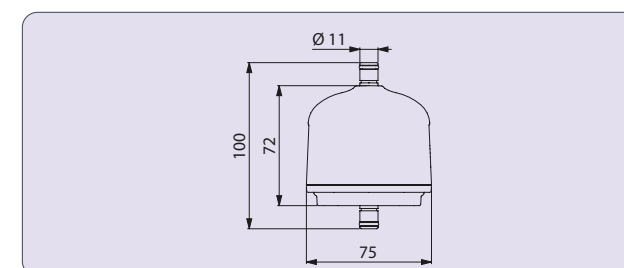
*Average flow rate during the product lifespan.

FILT'RAY SHOWER HEAD FILTER		
Lifespan	1 MONTH	Sterile AT030711
		Non-sterile AT030723
Lifespan	2 MONTHS	Sterile AT030713
		Non-sterile AT030715
Lifespan	3 MONTHS	Sterile AT030714
		Non-sterile AT030724
Lifespan	4 MONTHS	Sterile AT030716*
		Non-sterile AT030725
Reference is for a single unit. Can only be ordered in multiples of 10 (packaged in boxes of 10).		

* Not WRAS approved.

*Other waterborne bacteria include *Legionella pneumophila* and *Pseudomonas aeruginosa*.

FILTER FOR RINSING MEDICAL DEVICES FOR *LEGIONELLA* & OTHER WATERBORNE BACTERIA*



- Single use filters to deliver bacteriologically-controlled water and to rinse medical devices, sterilising grade **0.1µm nominal-rated**, 0.2µm absolute-rated.
- Hydrophilic polyethylene hollow fibres (no chemical additives).
- External casing material: ABS.
- Maximum lifespan: **2 months** after installation.
- Filtration flow rate: 6.3 lpm* at 3 bar and 2.2 lpm at 1 bar (filter only, excludes any flow rate restrictor in the tap).
- Maximum upstream pressure: 5 bar.
- Compatible with and resistant to chemical and thermal shocks.
- Sterile filters, individually wrapped in a sterile sachet and packaged in boxes of 10.

*Average flow rate during the product lifespan.

FILT'RAY WALL-MOUNTED SHOWER FILTER		
Lifespan	2 MONTHS	Sterile AT030734*
Reference is for a single unit. Can only be ordered in multiples of 10 (packaged in boxes of 10).		

* Not WRAS approved.

*Other waterborne bacteria include *Legionella pneumophila* and *Pseudomonas aeruginosa*.



FILT'RAY COMPACT RANGE

This range showcases the excellence of AQUATOOLS' technology:

- **Superior performance**
Tubular membrane microfiltration provides a very high filtration capacity.
- **Rapid connection**
The shower head filters screw directly onto all standard shower hoses, while the tap filters have a simple push-fit connector which screws directly onto the tap outlet, so no tools are required.
- **Retro-contamination is carefully controlled**
Point-of-use filtration at the outlet, protective skirt, and tilted connector to optimise the filter position, all reduce the risk of retro-contamination.



SIZE MATTERS

THE RANGE IS VERY COMPACT, REQUIRING MINIMAL SPACE
IDEAL FOR TAPS WITH A LOW DROP HEIGHT:



1-month: H. 38mm - Ø 46mm



2 months: H. 44mm - Ø 56mm



3 months: H. 50mm - Ø 56mm

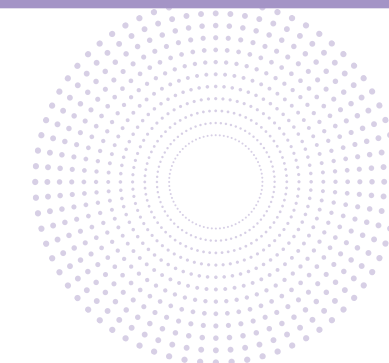


4 months: H. 63mm - Ø 56mm

ECO-DESIGNED FILTERS WITH A LIFESPAN ADJUSTED TO THEIR USE



- **Lifespans up to 4 months.** Reduced use of plastic, reduced servicing and money saving!
- **No chemicals used** during manufacture.
- **Component recovery policy:** filters are categorised as household waste.
- **The outer packaging** is made from recycled cardboard which can be recycled. The installation guide is made from paper and can be recycled.



EASY TO INSTALL

- Tap and wall-mounted shower filters: simply connect to the outlet requiring treatment using a push-fit connector, no tools required
- Shower head filters: screw onto all standard shower hoses

TILTED CONNECTOR

Filter position is optimised: reduces the risk of retro-contamination

SPACE SAVING

- Suitable for taps with a low drop height
- Reduces the risk of retro-contamination

PROTECTIVE SKIRT

Filter outlet is protected against any manually transmitted contamination

SUPERIOR PERFORMANCE

- Very large filtration area: filters a larger volume of water compared to a flat filter
- Completely effective and reliable with potable water of any quality
- Reduced risk of premature clogging: large capacity for storing bacteria inside the filter
- Filter lifespan up to 4 months

TOTAL PROTECTION

Bacteriologically controlled water: hollow fibre membrane with a sterilising grade 0.1µm nominal-rated and 0.2µm absolute-rated

TAP & WALL-MOUNTED FILTER FOR *LEGIONELLA* & OTHER WATERBORNE BACTERIA*

1 MONTH



Ø 11

38

54

Ø 46

AT20150 / AT20151, AT30150 / AT30151

2 MONTHS



Ø 11

44

60

Ø 56

AT20250 / AT20251, AT30250 / AT30251

3 MONTHS



Ø 11

50

66

Ø 56

AT20350 / AT20351, AT30350 / AT30351

4 MONTHS



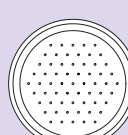
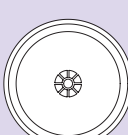
Ø 11

63

79

Ø 56

AT20450 / AT20451, AT30450 / AT30451

 Shower flow
  Laminar flow

- Single use tap and wall-mounted shower filters, sterilising grade **0.1µm nominal-rated**, 0.2µm absolute-rated.
- Space saving, suitable for mixers and taps with a low drop height.
- Retro-contamination is carefully controlled: protective skirt and tilted connector to optimise the filter position.
- Hydrophilic polyethylene hollow fibres (no chemical additives).
- External casing material: ABS.
- Maximum lifespan: **1, 2, 3 or 4 months** after installation depending on the model installed.
- Filtration flow rate: 5.1 lpm* at 3 bar for 1-month models, 5.5 lpm* at 3 bar for 2-month models, 7.6 lpm* for 3 and 4-month models (filter only, excludes any flow rate restrictor in the tap or shower head).
- Maximum upstream pressure at the point-of-use: 5 bar.
- Compatible with and resistant to chemical and thermal shocks.
- Available in two versions:
 - Sterile filters, individually wrapped in a sterile sachet and packaged in boxes of 10.
 - Non-sterile filters, individually wrapped in a non-sterile sachet and packaged in boxes of 10.

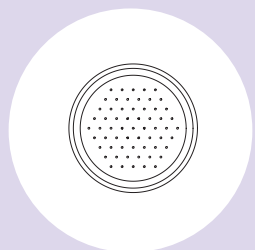
*Average flow rate during the product lifespan.

FILT'RAY COMPACT TAP & SHOWER FILTER				
Lifespan	1 MONTH	Sterile, shower flow	AT20150	Lifespan
		Sterile, laminar flow	AT20151	
		Non-sterile, shower flow	AT30150	
		Non-sterile, laminar flow	AT30151	
Lifespan	2 MONTHS	Sterile, shower flow	AT20250	Lifespan
		Sterile, laminar flow	AT20251	
		Non-sterile, shower flow	AT30250	
		Non-sterile, laminar flow	AT30251	
Lifespan	3 MONTHS	Sterile, shower flow	AT20350	Lifespan
		Sterile, laminar flow	AT20351	
		Non-sterile, shower flow	AT30350	
		Non-sterile, laminar flow	AT30351	
Lifespan	4 MONTHS	Sterile, shower flow	AT20450	Lifespan
		Sterile, laminar flow	AT20451	
		Non-sterile, shower flow	AT30450	
		Non-sterile, laminar flow	AT30451	

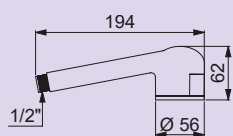
Reference is for a single unit. Can only be ordered in multiples of 10 (packaged in boxes of 10).

The push-fit connectors available on page 19 are also compatible with the FILT'RAY Compact range.

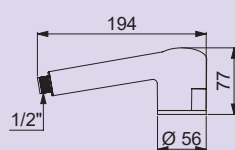
*Other waterborne bacteria include *Legionella pneumophila* and *Pseudomonas aeruginosa*.



Shower flow



AT20161
AT30161
AT20261
AT30261



AT20361
AT30361
AT20461
AT30461

SHOWER HEAD FILTER FOR *LEGIONELLA* & OTHER WATERBORNE BACTERIA*

- Single use shower head filters, sterilising grade **0.1µm nominal-rated**, 0.2µm absolute-rated.
- Quick to install: screws onto all standard shower hoses.
- Hydrophilic polyethylene hollow fibres (no chemical additives).
- External casing material: ABS.
- Maximum lifespan: **1, 2, 3 or 4 months** after installation depending on the model installed.
- Filtration flow rate: 11.2 - 11.8 lpm* at 3 bar (filter only, excludes any flow rate restriction in the shower valve).
- Maximum upstream pressure at the point-of-use: 5 bar.
- Compatible with and resistant to chemical and thermal shocks.
- Retro-contamination is carefully controlled: protective skirt.
- Available in two versions:
 - Sterile filters, individually wrapped in sterile sachets and packaged in boxes of 10.
 - Non-sterile filters, individually wrapped in non-sterile sachets and packaged in boxes of 10.
- Very light shower head:
 - 1 & 2-month models:
 - Empty filter: 105g
 - Filter full of water: 186g.
 - 3 & 4-month models:
 - Empty filter: 133g
 - Filter full of water: 253g.

* Average flow rate during the product lifespan.

FILT'RAY COMPACT SHOWER HEAD FILTER

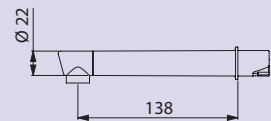
Lifespan		Sterile	AT20161	Lifespan		Sterile	AT20361
		Non-sterile	AT30161			Non-sterile	AT30361
Lifespan		Sterile	AT20261	Lifespan		Sterile	AT20461
		Non-sterile	AT30261			Non-sterile	AT30461

Reference is for a single unit. Can only be ordered in multiples of 10 (packaged in boxes of 10).

*Other waterborne bacteria include *Legionella pneumophila* and *Pseudomonas aeruginosa*.



FILT'RAY COMPACT SPOUT FILTER FOR *LEGIONELLA* & OTHER WATERBORNE BACTERIA*



AT30240

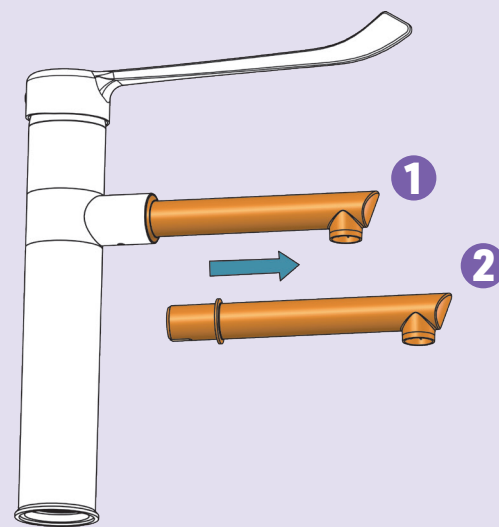
- Single use spout filters, sterilising grade **0.1µm nominal-rated**, 0.2µm absolute-rated.
- Can be installed instead of DELABIE's removable BIOCLIP spouts (no need for any tools or to shut off the water supply).
- Hydrophilic polyethylene hollow fibres (no chemical additives).
- External casing material: ABS.
- Maximum lifespan: **2 months** after installation.
- Filtration flow rate: 6 lpm* at 3 bar (filter only, excludes any flow rate restriction in the mixer/tap).
- Maximum upstream pressure at the point-of-use: 5 bar.
- Compatible with and resistant to thermal and chemical shocks.
- Non-sterile filter.
- Weight: 40g.

* Average flow rate during the product lifespan.

FILT'RAY COMPACT SPOUT FILTER

Lifespan	2 MONTHS	Non-sterile	AT30240
Reference is for a single unit. Can only be ordered in multiples of 10 (packaged in boxes of 10).			

QUICK AND EASY TO INSTALL



- 1 Pull the FILT'RAY spout towards you to remove it
- 2 Insert another spout filter in its place



SPOUT FILTER

- Space saving: drop height maintained
- Eliminates the spout surface as a potential source of contamination

EASY TO INSTALL

- Compatible with all BIOCLIP mixers or taps with removable spouts (no tools required)



Flow of water through the filter



COMPLEMENTARY PRODUCTS FOR WATER HYGIENE



OUR COMPLEMENTARY PRODUCTS GOING FURTHER FOR WATER HYGIENE



QUATOOLS also provides specialist equipment for water hygiene.
The washbasin waste without a water level, spout outlets, and disposable shower kits are a few examples.

HYGIENIC WASTE WITHOUT WATER LEVEL

Are you fed up with sink wastes that encourage the proliferation of bacteria in your healthcare facilities?

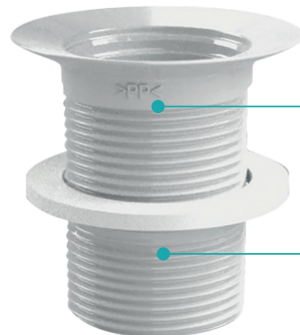
Are you looking for a simple, effective, and environmentally-friendly solution to ensure the hygiene and safety of your patients and staff?

Welcome to **AQUATOOLS' hygienic waste without a water level**, the revolutionary device that reduces the risk of microbial contamination from washbasin wastes.



THE CAP AND MEMBRANE CAN BE EASILY REMOVED
Easy to maintain

MEMBRANE PREVENTS BAD SMELLS
Maximum hygiene



36 LPM EVACUATION FLOW RATE
Complies with European standard EN 274

WASTE WITH SMOOTH INTERIOR
Maximum hygiene



SAVES SPACE BENEATH THE BASIN
Easy to install

WASTE CONNECTS DIRECTLY TO THE PIPEWORK
NO WATER STAGNATION
Maximum hygiene

NO WATER LEVEL
Controls bacterial proliferation

WASHBASIN WASTE HYGIENIC WASTE WITHOUT WATER LEVEL

- No water level: cap and cup with a membrane which can be removed from above.
- Water-free waste M1 1/4".
- Waste can be cut to size. The membrane - which can be cleaned and replaced - prevents bad smells.
- Cup and body made from polypropylene. Cap made from stainless steel or polypropylene depending on the model. Membrane made from silicone.
- Evacuation flow rate complies with European standard EN 274: 36 lpm.
- Not suitable for washbasins with an overflow.

HYGIENIC WASTE WITHOUT WATER LEVEL

White model	AT621W
Chrome-plated model	AT621

MEMBRANE ASSEMBLY FOR MAINTENANCE

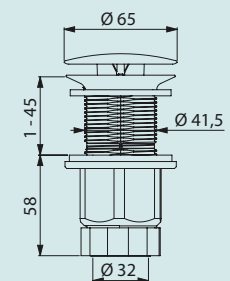
White model (2 pieces)	AT621001W.2P
Chrome-plated model (2 pieces)	AT621001.2P

HYGIENE+ WASTE

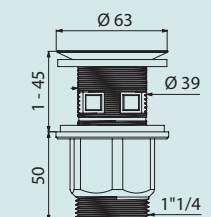
- Hygienic washbasin waste M1 1/4".
- Concave grid (no water retention).
- Free flow, with no central screw (avoids scale deposits and reduces bacterial development).
- Polished chrome-plated brass grid, chrome-plated ABS body.
- Can be tightened to a minimum of 1mm or maximum of 45mm. (pre-scored waste: snap-off sections can be removed for models with overflow).
- Complies with European standard EN 274-1.

HYGIENE+ WASTE

Chrome-plated model	AT611
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AT621W / AT621



AT611

SPOUT OUTLET FOR TAPS & MIXERS

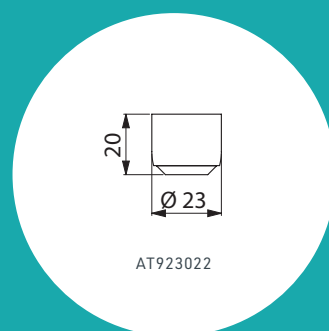
HYGIENE+ OUTLET

- Free flow outlet with no grid or partitions in contact with the water.
- Water cannot stagnate in the internal part.
- Internal part made from Hostaform (scale-resistant material).
- Chrome-plated brass collar.

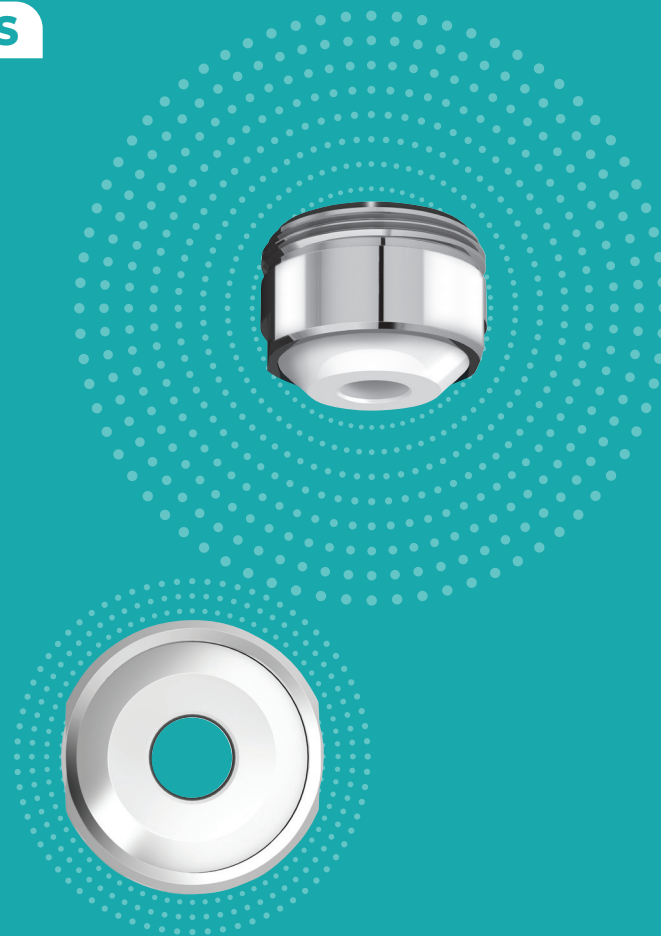
The HYGIENE+ outlet can only be installed on a mixer or tap with a restricted flow rate (5 lpm max.) to ensure a good flow with no splashing.



AT923024



AT923022

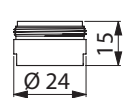


HYGIENE+ OUTLET

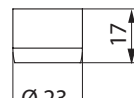
M24X100 (1 piece)	AT923024
M24X100 (50 pieces)	AT923024.50P
F22X100 (1 piece)	AT923022
F22X100 (50 pieces)	AT923022.50P

HYGIENIC FLOW STRAIGHTENER

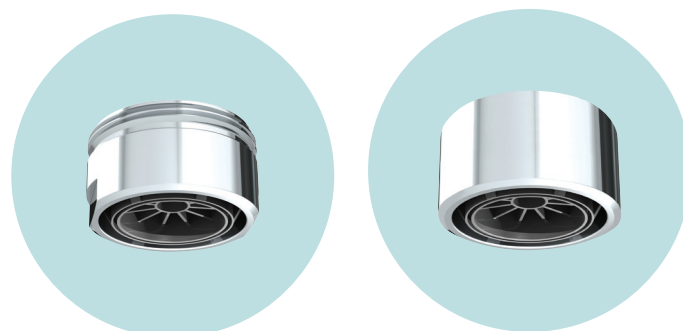
- Star-shaped flow straightener with no grid. Reduces bacterial development: no water retention or build-up of impurities.
- Chrome-plated brass collar.



AT921024.2P



AT921022.2P



HYGIENIC FLOW STRAIGHTENER

M24X100 (2 pieces)	AT921024.2P
M24X100 (50 pieces)	AT921024.50P
F22X100 (2 pieces)	AT921022.2P
F22X100 (50 pieces)	AT921022.50P

HYDROTHERAPY ACCESSORIES

DISPOSABLE SHOWER KIT

- Disposable shower kit includes:
 - 25 white PVC flexible hoses with coloured ABS conical unions: blue, yellow, green or purple.
 - 25 white shower heads, Ø 70mm, monojet: rain effect.

DISPOSABLE SHOWER KITS

FLEXIBLE SHOWER HOSES, L. 1.50m	
Yellow kits (25 pieces)	AT809Y.25P
Blue kits (25 pieces)	AT809B.25P
Green kits (25 pieces)	AT809G.25P
Purple kits (25 pieces)	AT809P.25P
FLEXIBLE SHOWER HOSES, L. 0.85m	
Yellow kits (25 pieces)	AT808Y.25P
Blue kits (25 pieces)	AT808B.25P

SPECIFICALLY FOR HEALTHCARE FACILITIES

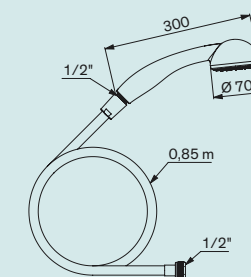
- Disposable kits: can be replaced regularly to improve safety.
- The inside and outside of the flexible hose are smooth: easy to maintain.
- Coloured conical unions provide clear visual indication and help to ensure correct shower kit replacement.

SILVER FLEXIBLE SHOWER HOSE

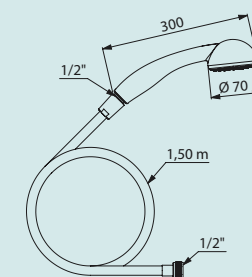
- Smooth food-grade, metal-effect, reinforced PVC shower hose.
- Will withstand strain up to 50kg, bending and twisting.

SILVER FLEXIBLE SHOWER HOSE

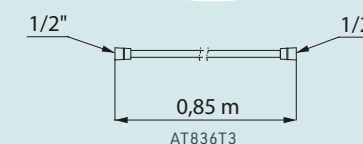
L. 0.85m	AT836T3
L. 1.50m	AT836T1



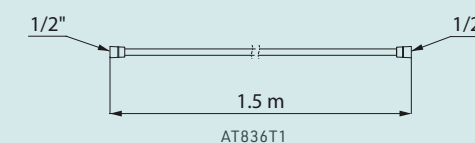
AT808Y.25P / AT808B.25P



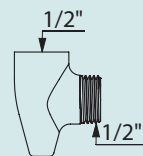
AT809Y.25P / AT809B.25P
AT809G.25P / AT809P.25P



AT836T3



AT836T1



AT880

AUTO-DRAINING DEVICE

- Automatically drains the shower head and flexible shower hose.
- Prevents water stagnation and reduces bacterial proliferation.
- Chrome-plated brass body with a downstream purge.
- Inlet F1/2" with filter to connect to the bottom outlet of the mixer.
- Outlet M1/2" to connect to the flexible hose.
- We recommend connecting the auto-draining device to a short flexible hose (see page 36).

AUTO-DRAINING DEVICE

AT880

SHOWER HEAD RETAINING COLLAR

- Shower hose retaining collar for shower riser rails Ø 25 to 35mm.
- Install in addition to the shower head holder, fixes to the shower hose.
- Retaining device: prevents the shower head from coming into direct contact with the floor or floor trap (source of bacterial contamination).

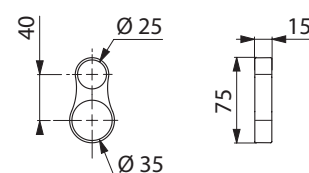
SHOWER HEAD RETAINING COLLAR

AT830



Overhead view

Side view



AT830



AQUATOOLS SERVICES

TAKE ADVANTAGE OF OUR SERVICES
TO ENHANCE THE EFFICIENCY OF YOUR
AQUATOOLS EQUIPMENT.



FILT'RAY SCAN MANAGE YOUR FILTERS QUICKLY AND EASILY!

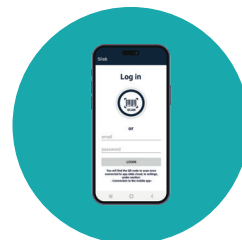
A SIMPLE SOLUTION TO ENSURE THAT AQUATOOLS FILTERS CAN BE TRACED

Secure management of points-of-use and rigorous traceability of maintenance actions are essential to control the risks in healthcare facilities. AQUATOOLS addresses these needs with its new **FILT'RAYScan App** for mobile phones.

Designed in partnership with **SILAB** for the management and maintenance of shower and tap point-of-use filters, this application facilitates the monitoring and replacement of **FILT'RAY** and **FILT'RAY Compact** filters. These filters, with lifespans that vary from **1 to 4 months**, must be replaced periodically. **FILT'RAYScan** ensures this happens efficiently.

Keeping track of all information relating to monitoring and maintenance activity is a key duty of the persons responsible for water distribution system in buildings open to the public. **FILT'RAYScan** compiles the relevant information for installations at risk of contamination from *Legionella* and ensures traceability for any actions carried out at these installations.

AVAILABLE FOR THE WEB & MOBILE PHONES



1

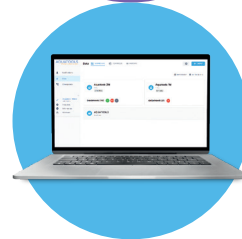
LOCATE

YOUR EQUIPMENT BY SCANNING THE QR CODE ON THE DOOR TO DESIGNATE THE FILTER LOCATION



2

SCAN YOUR FILTER



3

MONITOR

YOUR EQUIPMENT AND FILTER REPLACEMENT VIA THE DEDICATED WEBSITE



Complete filter traceability



Track expiry dates in real-time



Email alerts to replace filters



Data can be downloaded in real-time

KEY FEATURES OF THE APP



MANAGE EQUIPMENT

Import lists of control points for filter monitoring via an Excel file.



QR CODE GENERATOR

Each piece of equipment has a unique QR code.



QR CODE PRINTING

QR codes can be printed directly from the client interface or via our dedicated printing service.



SCANNING AQUATOOLS

Equipment identification using QR codes, filter tracking via scanning, manual entry or via a reader.



DATA TRANSFER

Data synchronises with the server (location, filter reference, date, time, user).



EXPORTING THE DATA

Data is available in real-time, and can be downloaded in Excel format.



MANAGING USERS

User profile and rights are managed via the client interface.



MOBILE APP

Compatible with Android and Apple devices; an input terminal is optional (contact us for more information).



OFFLINE MODE

It is possible to use the App offline. Data is synchronised automatically when the connection is restored.

ONE SERVICE, TWO OPTIONS

Discover the extent of our tailor-made services designed to meet your specific needs:

1

FILT'RAY SCAN OPTION

More than just a traceability service for your filters, it's a step towards effective management.

2

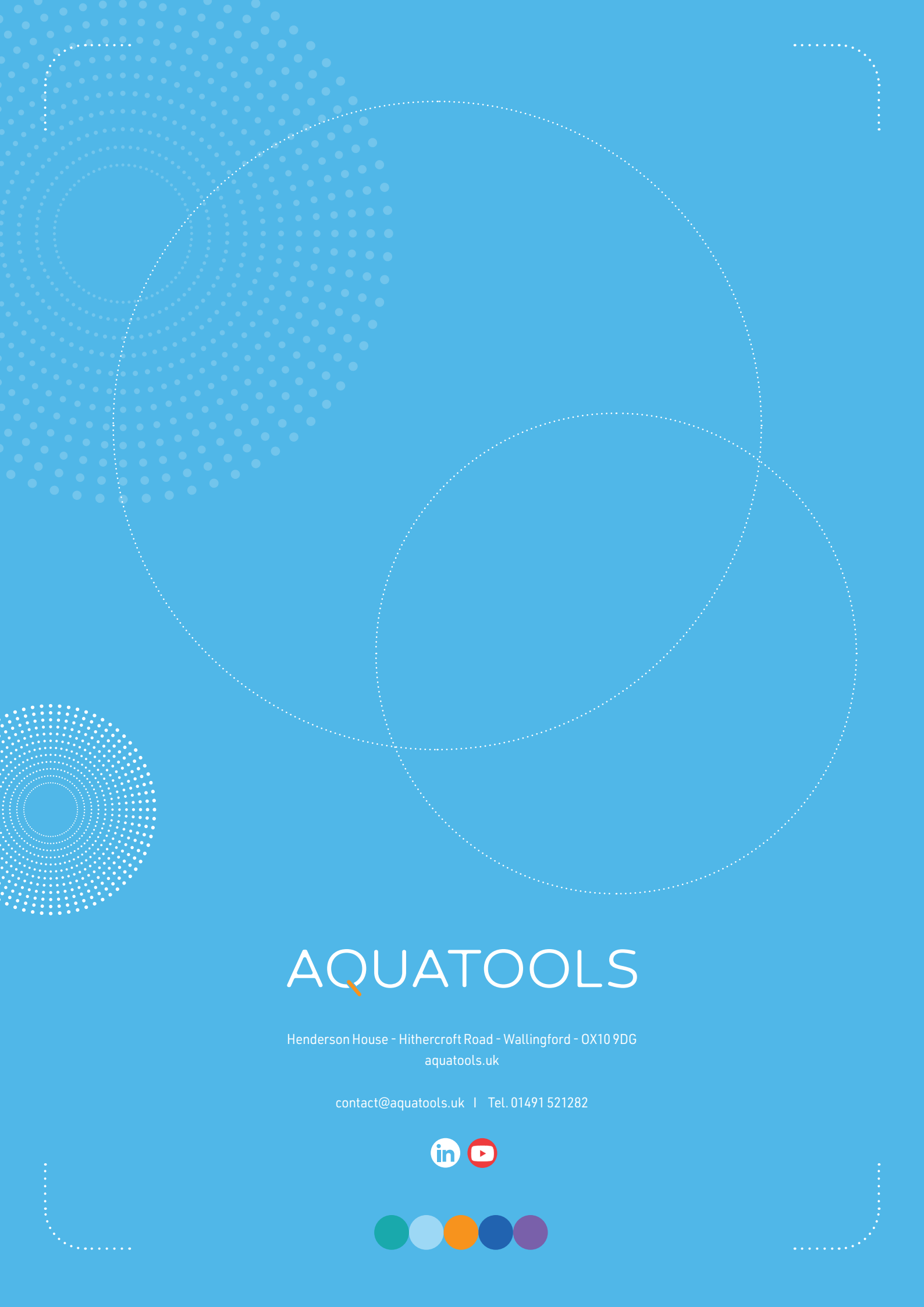
INFORMATION MANAGEMENT

Ask us for a quote. This option allows you to monitor up to 5 additional parameters, such as hot and cold water temperature monitoring, or changing flow straighteners, to manage your healthcare installations effectively.

Find the solution that suits your needs and transform your healthcare management with **FILT'RAY Scan**!

CENTRALISED RECORD KEEPING

In both public and private healthcare facilities, keeping track of all information relating to monitoring and maintenance activity is a key duty of the persons responsible for water distribution systems. With the **FILT'RAY Scan App**, everything is stored centrally and is available immediately, without any risk of data loss.



AQUATOOLS

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