

new



FILT'RAY (R)evolution



POINT-OF-USE FILTERS

Taps, wall showers and shower heads
All-germ & anti-Legionella, pseudomonas

TECHNOLOGICAL INNOVATION

→ SPACE SAVING SUITABLE FOR TAPS WITH A LOW DROP HEIGHT

- 1-month: H. 38mm - Ø 46mm
- 2-month: H. 44mm - Ø 56mm
- 3-month: H. 50mm - Ø 56mm
- 4-month: H. 63mm - Ø 56mm

→ SUPERIOR PERFORMANCE

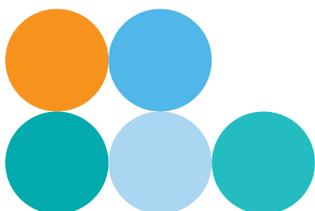
- Tubular membrane microfiltration
- Very high filtration capacity
- Completely effective and reliable with potable water of any quality¹
- Filter lifespan up to 4 months

→ RETRO-CONTAMINATION IS CAREFULLY CONTROLLED

- Point-of-use filtration
- Protective skirt
- Position optimised thanks to the tilted connector

→ RAPID CONNECTION FOR IMMEDIATE PROTECTION

- Shower head filter: screws onto all standard shower hoses
- Tap filter: simply connect to the outlet requiring treatment, no tools required³





AQUATOOLS, expert in water hygiene at the point-of-use in Public Buildings.

New **FILT'RAY tap, wall shower and shower head** filtration devices. These filters are available in **non-sterile versions** with lifespans of **1, 2, 3 & 4 months**.

AQUATOOLS is ISO 14001, 9001:2015 and ISO 13485:2016 certified.

Technological innovation - FILT'RAY filter

FILT'RAY all-germ point-of-use filters provide a physical barrier to reduce the risk of infection related to waterborne microorganisms such as bacteria (*Legionella pneumophila*, *Pseudomonas aeruginosa* and other Gram-negative bacilli, non-tuberculous Mycobacteria), fungi (*Aspergillus sp*, *Fusarium sp*), protozoa and particles from the water distribution network.



FILT'RAY 1, 2, 3 & 4-month filters are designed to protect immunocompromised patients and vulnerable people. Point-of-use filters are needed for the care of hospitalised immunocompromised patients in areas of increased risk such as bone and organ transplant units, oncology wards, intensive care, neonatal services and any other area that cares for this type of patient.

General Information

- Instantaneous microbial challenge at DO, 1, 2, 3 & 4 months, in accordance with the ASTM F838 standard:
 - with ***Brevundimonas diminuta*** at 10^7 CFU/cm² for the effective filtration area; > log₇ retention. The membrane is deemed to be sterilising grade².
 - with ***Legionella pneumophila*** and ***Pseudomonas aeruginosa*** retention at 10^7 CFU/cm² for the effective filtration area; > log₇ retention.
- Continuous and individual checks of the filtration membrane and the finished product.
- Class I Medical Devices compliant with European Regulation UE 2017/745. CE marked: year 2021.
- International potable water certification (ACS - France, KTW - Germany, WRAS - United Kingdom).
- Material specification meets the requirements of the European Pharmacopoeia.

FILT'RAY TECHNICAL FEATURES

Device material	ABS
Membrane type	Tubular microfiltration
Membrane material	Polyethylene
Cut-off threshold	0,1µm nominal-rated & 0,2µm absolute-rated
Operating range	1-5 bars; 5 -42°C (at 5 bar); up to 60° C (at 2 bar)
Thermal shock resistance	70°C for 30 minutes
Chemical shock resistance	100ppm active chlorine for 1 hour total cumulative period (1-month filter) 100ppm active chlorine for 2 hours total cumulative period (2-month filter) 100ppm active chlorine for 3 hours total cumulative period (3-month filter) 100ppm active chlorine for 4 hours total cumulative period (4-month filter)

FILTRATION FLOW-RATE*	FILT'RAY TAP / SHOWER	FILT'RAY SHOWER HEAD
1-month	2.7 lpm at 1 bar 5.1 lpm at 3 bar 7 lpm at 5 bar	6 lpm at 1 bar 11.2 lpm at 3 bar 13 lpm at 5 bar
2-month	3 lpm at 1 bar 5.5 lpm at 3 bar 7.4 lpm at 5 bar	
3-month	4.6 lpm at 1 bar 7.6 lpm at 3 bar 9.4 lpm at 5 bar	6.2 lpm at 1 bar 11.2 lpm at 3 bar 13.2 lpm at 5 bar
4-month		6.5 lpm at 1 bar 11.8 lpm at 3 bar 14.2 lpm at 5 bar

Notes :

- Filter may clog prematurely if work is undertaken on the water distribution network.
- Filter sterilising grade is defined in the "American Standard Test Method ASTM F838-20 and in FDA - Guidance for Industry - Sterile Drug Products Produced by Aseptic Processing - Current Good Manufacturing Practice" as a retention efficiency of 10^7 CFU per cm² for a bacterial challenge of *Brevundimonas diminuta* for the effective filtration surface.
- A list of connectors is available on request.

* Wall-mounted fixed shower filter flow rate: contact us for more information.



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→ COMPONENT RECOVERY POLICY

- Filters are comparable to household waste
- Outer packaging made from recycled and recyclable cardboard. Paper installation guide can be recycled.

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