

Showerheads and faucets

QUICK LEGIONELLA & PSEUDOMONAS CONTROL



TECHNOLOGICAL INNOVATION

Superior performance

- Bubl'air Wash: mechanism for extending filter lifespan
- High flow rate tubular membrane
- UltraResistant (UR)

Attractive appearance

- for real-world use
- Compact in size
- Soft, rounded edges

Retro-contamination is carefully controlled

- Point-of-use filtration
- Protective skirt

contact@aqua-tools.com www.aquatools.us

- Ecological footprint
- "Economic" flow rate



FILT'RAY ^{2G} Filters As part of risk management of your water networks

FILT'RAY²⁶ filters are recommended for managing biological risks and preventing digestive, respiratory and cutaneous infections, and constitute an immediate physical barrier against bacteria, fungi and parasites including all waterborne pathogenic microorganisms. This technology enables you to rapidly secure the Point-of-Use and ensures a high flow rate for greater user comfort. These filters prevent the discharge of waterborne pathogens including planktonic *Legionella sp.* and other Gram-negative bacteria, NTM (Non Tuberculus *Mycobacteria*), *Giardia* and *Cryptosporidium* from faucets and showers. They should be used either as a temporary measure in case of outbreaks and specific risks³ (work on the network) or for long term use for *Legionella* and other Gram-negative bacteria control.



FILT'*RAY*²⁶ filters have tolerance to early blockage due to **Bubl'air Wash**¹ and provide high quality filtration and a comfortable flow rate for users. The **UltraResistant tubular membrane** provides sterilizing-grade² microfiltration and preserves the water's sensory qualities.

General information

- > Instant microbial⁴ challenge at DO, 1, 2, & 3 months:
 - with *Brevundimonas diminuta* at 10⁷ CFU/cm² of effective filtration area; > log7 retention. The membrane is therefore considered to be of sterilizing-grade²
- with Legionella pneumophila and Pseudomonas aeruginosa at 10⁷ CFU/cm² of effective filtration area; > log7 retention
- with Aspergillus brasiliensis
- at 10^5 CFU/cm² of effective filtration area; > log5 retention (due to the size of the fungi) > Quality control: continuous complete monitoring of the filtration membrane
- > Materials selected in accordance with European and US Pharmacopeia and FDA requirements
- > The bacteriostatic agent reduces the external surface contamination by more than 99.9% for Pseudomonas aeruginosa, Escherichia coli, Staphylococcus aureus and Methicillin Resistant Staphylococcus aureus (MRSA).

Characteristics	FILT'RAY ^{2G}
Device material	MBS
Membrane type	tubular microfiltration
Membrane material	Polyethylene
Pore size	0.1 μm nominal and 0.2 μm absolute
Range of use	5 bars at 60° C / 72.5 PSI at 140° F
Resistance to thermal shock	70° C during 30 minutes / 158° F during 30 minutes
Resistance to chemical shock	100 ppm active chlorine during a cumulative total of 1 hour (1-month filter) 100 ppm active chlorine during a cumulative total of 2 hours (2-month filter)

Reference

- ¹ 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.
- ² Sterilizing grade filter is defined in "American standard Test Method ASTM F838-15a" and in FDA Guidance for Industry. "Sterile Drug Products Produced by Aseptic Processing - Current Good Manufacturing Practice" as a filter's ability to sustain a bacterial challenge of 10⁷ CFU of *Brevundimonas diminuta* per cm² of filtration surface.

100 ppm active chlorine during a cumulative total of 3 hours (3-month filter)

- ³ In case of work on the water network, early clogging of the filter might be experienced.
- ⁴ For information, the smallest size of organisms are as follows: Brevundimonas diminuta : 0.3μm; Legionella pneumophila : 0.5μm; Pseudomonas aeruginosa : 0.5 μm; Giardia : 2 to 4 μm; Cryptosporidium : 4 to 6 μm & Aspergillus : 4 μm.

Component disposal policy

FILT'*RAY*²⁶ can be disposed of with normal household waste. FILT'*RAY*²⁶ filters are manufactured in France by AQUATOOLS 26, rue Charles-Édouard Jeanneret - 78300 Poissy – France

USA : aqua-tools Inc - 50 Milk street, 16th floor - Boston, MA 02109 United States - Phone: 617-398-2497 Europe : AQUATOOLS - 26, rue Charles-Édouard Jeanneret - 78300 Poissy - France - Phone: +33 1 39 75 02 20

innovation

Superior performance

- Bubl'air Wash: mechanism for extending filter lifespan
- UltraResistant (UR) high flow rate tubular membrane
- Long-lasting filter 3 × larger microfiltration surface area

Attractive appearance for real-world use

- Compact in size
- Soft, rounded edges
- Protective covering
- Easy to install

Retro-contamination is carefully controlled

- Point-of-Use filtration
- No "dead" volume remains after water passes through the filter
- Protective skirt
- Structured conical jets at 1 to 5 bar, 14.5 to 72.5 PSI
- No splashing or spraying
- Sleek, smooth surface
- The outer parts of the water filter contain a bacteriostatic agent

Ecological footprint

- "Economic" flow rate
- Exterior packaging made from recycled cardboard which is recyclable. Installation guide made from recyclable paper.

Only FILT'RAY²⁶ Sterile Disposable Water Filters are 510(K) class II devices. Contact us for a list of available filters.

nfection control solutions

