PALL Medical

Aquasafe™ Disposable Water Filters

Tap Application - Up to 31 Day Use





Features

- Physical barrier against waterborne contaminants including *Legionella spp.* and *Pseudomonas spp.*
- Validated double layer sterilising grade filtration with integral pre-filter
- Validated life time under real life conditions
- Fully recyclable materials
- Compatible with common systemic heat and chemical disinfection

Benefits

- Provides microbiologically controlled water
- Documented performance, validated according to international requirements
- Proven performance, cost effective, easy logistics, reduced waste
- Fully recyclable materials
- Complementary to sanitisation programs

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The Aquasafe Disposable Water Filters provide filtered water for topical applications such as showering and washing, personal hygiene procedures such as tooth brushing and mouth rinsing, for consumption and the preparation of cold drinks and food*, and for rinsing of dental and medical instruments, including endoscopes, for up to 31 days use. The double layer sterilising grade Supor™ membrane is rated and validated at 0.2 µm[1-4], and acts as a physical barrier to waterborne particulates and pathogens such as *Legionella* spp. and *Pseudomonas* spp.

Specifications

Aquasafe Disposable Water Filters (AQ31F1S, AQ31F1S2, AQ31F1R, AQ31F1R2)	Sterile products
Membrane area	Approx. 550 cm² (85.3 in²)
Membrane rating	Sterilising grade** membrane[1-4] 0.2 µm Supor with integrated pre-filtration layer (approx. 1.0 µm)
Length (excluding quick connect adaptor)	72 mm nominal (2.8 in) (AQ31F1S, AQ31F1S2) 85 mm nominal (3.3 in) (AQ31F1R, AQ31F1R2)
Maximum upstream operating pressure	5 bar (approx. 75 psi) at 60 °C (140 °F)
Normal upstream operating pressure	2 - 4 bar (approx. 30-60 psi)
Maximum lifetime	up to 31 days
Maximum continuous influent water temperature	60 °C (140 °F)
Maximum temperature exposure	70 °C (158 °F) for a total cumulative period of 30 mins over the life of the filter
Typical water flow rate	5.3 L/min at 1 bar 1.4 gal/min at 15 psi 11.4 L/min at 3 bar 3.0 gal/min at 45 psi 17.4 L/min at 5 bar 4.6 gal/min at 75 psi

The Aquasafe Disposable Water Filter (AQ31F1S, AQ31F1S2, AQ31F1R, AQ31F1R2) is compatible with:

Chlorine Dioxide: up to 1 ppm chlorine dioxide over indicated life followed by shock treatment with 100 ppm chlorine dioxide for 12 hours at 20 ºC +/- 5 ºC (68 °F +/- 9 °F).

Active Chlorine: 100 ppm active chlorine for 1 hour at 20 ºC +/- 5 ºC (68 °F +/- 9 °F).

Continuous Treatment with Active Chlorine Followed by Shock Treatment: 1-8 ppm active chlorine at 30 ºC (86 °F) over indicated life followed by shock treatment with 100 ppm active chlorine for 1 hour at 20 ºC +/- 5 ºC (68 °F +/- 9°F).

pH: pH of 12.8 for 1 hour at 20 ºC +/- 5 ºC (68 °F +/- 9 °F).

Peracetic Acid: 1000 ppm peracetic acid for 2 hours at 60 ºC (140 °F).

Ordering Information

Reorder Code	Description	Packaging
AQ31F1R	Aquasafe Disposable Water Filter for up to 31 Days Use - Tap (with rose outlet)	12 units per case
AQ31F1R2	Aquasafe Disposable Water Filter for up to 31 Days Use - Tap (with rose outlet)	2 units per case
AQ31F1S	Aquasafe Disposable Water Filter for up to 31 Days Use - Tap (with smooth outlet)	12 units per case
AQ31F1S2	Aquasafe Disposable Water Filter for up to 31 Days Use - Tap (with smooth outlet)	2 units per case

Quick Connect Adaptors

Reorder Code	Description	Packaging
TAP1/2MN	1/2 inch, male thread, non-valved	1 unit
TAP1/2MV	1/2 inch, male thread, valved	1 unit
TAP1/2FN	1/2 inch, female thread, non-valved	1 unit
TAP1/2FV	1/2 inch, female thread, valved	1 unit
TAP22FN	22 mm, female thread, non-valved	1 unit
TAP22FV	22 mm, female thread, valved	1 unit
TAP24MN	24 mm, male thread, non-valved	1 unit
TAP24MV	24 mm, male thread, valved	1 unit
TAPUC	Universal (15 – 29 mm), non-threaded	1 unit

*Where local practices and regulations allow.
**Water provided by this device, though filtered through a sterilising grade membrane, is not intended for use for injection, nor is it claimed to meet any standard pertaining to pharmaceutically pure water.

References

1. Aquasafe Disposable Water Filter - Tap AQ31F1S AQ31F1R Validation Guide Literature Ref. CV0000113-AS-EM-Unreg_V2
2. American Standard Test Method (ASTM) F838-20. 'Determining Bacterial Retention of Membrane Filters Utilised for Liquid Filtration'.
3. Health Industry Manufacturers Association (HIMA) Document No. 3, Vol. 4 (1982). 'Microbiological Evaluation of Filters for Sterilizing Liquids'.
4. FDA 'Guidance for Industry: Sterile Drug Products Produced by Aseptic Processing -Current Good Manufacturing Practice', Published November 30, 2024.

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