



Pall-Aquasafe™ AQ31F1S and AQ31F1R Filters for Waterborne Microorganisms

Description

Disposable Water Filters (AQ31F1S and AQ31F1R) – 31 Day Use

Pall-Aquasafe Water Filters for up to 31 day use (AQ31F1S and AQ31F1R) provide filtered water for topical use and patient consumption*. The double layer sterilizing grade Supor® membrane is rated and validated at 0.2 µm_{1,2}, and protects against waterborne particulates and pathogens such as *Legionella* spp., and *Pseudomonas* spp.

To minimize the risk of inadvertent cross-contamination and retrograde contamination, the filter housing material utilizes silver technology as an enhanced, non-leaching bacteriostatic additive. A Detachable Shower Rose (AQFROSE) is now available for use in combination with the Pall-Aquasafe Water Filter (AQ31F1S) to provide water for direct wound care*.



Easy to use, convenient and cost effective



Protection for areas with immunocompromised patients

* Where local practices and regulations allow.

Features	Benefits
Protective barrier against waterborne contaminants including <i>Legionella</i> spp., and <i>Pseudomonas</i> spp.	Reduces the risk of water associated nosocomial infection
Validated double layer sterilizing grade filtration with integral pre-filter	Documented performance, validated according to international requirements
Enhanced bacteriostatic efficiency of 99.99% for <i>Pseudomonas aeruginosa</i>	Bacteriostatic additive throughout housing materials, minimizes risk of inadvertent cross-contamination and retrograde contamination
Increased media area for longer life	Cost effective, easier logistics, reduced waste
New detachable shower rose for applications such as wound care	Added protection from cross-contamination
Fully recyclable materials	Environmentally friendly
Compatible with common systemic heat and chemical disinfection	Complementary to sanitization programs

Specifications

Pall-Aquasafe Disposable Water Filters (AQ31F1S and AQ31F1R)	CE Marked Medical Device (Europe Only)
Membrane area	550 cm ²

Membrane rating	Sterilising grade** membrane ^{3,4} 0.2 µm Supor® with integrated pre-filtration layer approx 1.0 µm)
Length (excluding quick connect adaptor)	72 mm nominal (AQ31F1S) 85 mm nominal (AQ31F1R)
Maximum upstream operating pressure	5 bar (500 kPa) @ 60 °C
Normal upstream operating pressure	2 – 4 bar (200 – 400 kPa)
Maximum lifetime	31 days (AQ31F1S, AQ31F1R) Single use (AQFROSE)
Maximum continuous influent water temperature	60 °C (AQ31F1S, AQ31F1R) 40 °C (AQFROSE)
Maximum temperature exposure	70 °C for a total cumulative period of 30 mins over the life of the filter (AQ31F1S/AQ31F1R). AQFROSE 40 °C
Approximate water flow rate	5.3 L/min at 1 bar 11.4 L/min at 3 bar 17.4 L/min at 5 bar

Pall-Aquasafe Water Filters (AQ31F1S and AQ31F1R) are compatible with up to 1.0 mg/L ClO₂ (1 ppm) for use over the indicated life, and are compatible with solutions of 100 ppm free chlorine or pH 12.82 for one hour at ambient temperature (20 °C ± 5 °C).

** Pall-Aquasafe Water Filters are not to be used for producing water for infusion or injection.

For compliance to food and drink regulations, please see Pall Validation Guide¹.

References

Reference

1. Validation Guide. Pall-Aquasafe Water Filter. Disposable Water Filters for 31 Day Use – Tap (AQ31F1S, AQ31F1R) Literature Ref. CC187b
2. Field Evaluation Report. Pall-Aquasafe Water Filter. Disposable Water Filter for 31 Day Use – Tap (AQ31F1S, AQ31F1R). Literature Ref. CC194b
3. American Standard Test Method (ASTM) F838-05. “Determining Bacteria Retention of Membrane Filters Utilised for Liquid Filtration” 4 Health Industry Manufacturers Association (HIMA) Document No.3, Vol.
4. Microbiological evaluation of filters for sterilizing liquids

Further Reading

- ▶ Hall et al., Provision of safe potable water for immunocompromised patients in hospital. *J Hosp Infect* 58(2): 155-8. 2004.
- ▶ Sheffer et al., Efficacy of new point-of-use water filter for preventing exposure to Legionella and waterborne bacteria. *Am J Infect Control*. 33 (5 Suppl 1): S20-5. 2005
- ▶ Vianelli et al., Resolution of a *Pseudomonas aeruginosa* outbreak in a hematology unit with the use of disposable sterile water filters. *Haematologica*, 91 (7): 983-5. 2006
- ▶ Tu H-Z et al., Use of disposable water filter for prevention of false-positive results due to nontuberculosis mycobacteria in a clinical laboratory performing routine acid-fast staining for tuberculosis. *App Environ Micro*. 73(19), 6296-8. 2007.
- ▶ Trautmann et al., Point-of-use water filtration reduces endemic *Pseudomonas aeruginosa* infections on a surgical intensive care unit. *AJIC*, 36(6): 421-9. 2008.

Troubleshooting Guides

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Ordering Information

Ordering Information - Europe

Part No.	Description	Packaging
AQ31F1R	Pall-Aquasafe Water Filter for 31 Day Use – Tap (with rose outlet)	12 units per case
AQ31F1S	Pall-Aquasafe Water Filter for 31 Day Use – Tap (with smooth outlet)	12 units per case
AQFROSE	Pall-Aquasafe Detachable Shower Rose	25 units per case

Adaptors

1/2 inch, male thread, non-valved	1 unit
1/2 inch, male thread, valved	1 unit
1/2 inch, female thread, non-valved	1 unit
1/2 inch, female thread, valved	1 unit
22 mm, female thread, non-valved	1 unit
22 mm, female thread, valved	1 unit
24 mm, male thread, non-valved	1 unit
24 mm, male thread, valved	1 unit
Universal (15 – 29 mm), non-threaded	1 unit

Ordering Information - USA

Part No.	Description	Packaging
AQ31F1SA	Pall-Aquasafe Water Filter for 31 Day Use – Tap (with smooth outlet)	12 units per case

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