



Pall-Aquasafe™ Water Filters



Disposable Water Filters (AQ31F1S, AQ31F1S2, AQ31F1R, AQ31F1R2) – 31 Day Use

Features

Protective barrier against waterborne contaminants including *Legionella* spp., and *Pseudomonas* spp.

Validated double layer sterilising grade filtration with integral pre-filter

Enhanced bacteriostatic efficiency of 99.99% for *Pseudomonas aeruginosa*

New detachable shower rose for applications such as wound care

Increased media area for longer life

Fully recyclable materials

Compatible with common systemic heat and chemical disinfection

Benefits

Reduces the risk of water associated nosocomial infection

Documented performance, validated according to international requirements

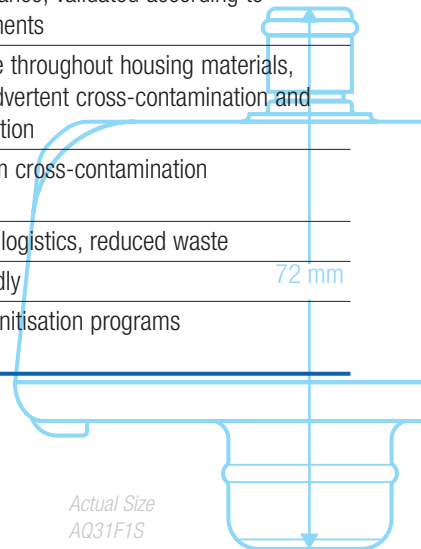
Bacteriostatic additive throughout housing materials, minimises risk of inadvertent cross-contamination and retrograde contamination

Added protection from cross-contamination

Cost effective, easier logistics, reduced waste

Environmentally friendly

Complementary to sanitisation programs



Quick Connection, Immediate Protection.

Actual Size
AQ31F1S

Background

Pall-Aquasafe Water Filters for up to 31 day use (AQ31F1S, AQ31F1S2, AQ31F1R, AQ31F1R2) provide filtered water for topical use, personal hygiene, wound care*, consumption and the preparation of cold drinks and food*, and for rinsing of medical instruments. The double layer sterilising 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 minimise the risk of inadvertent cross-contamination and retrograde contamination, the filter housing material utilises 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, AQ31F1S2) 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.

Ordering Information

Reorder Code	Description	Packaging
AQ31F1R	Pall-Aquasafe Water Filter for 31 Day Use – Tap (with rose outlet)	12 units per case
AQ31F1R2	Pall-Aquasafe Water Filter for 31 Day Use – Tap (with rose outlet)	2 units per case
AQ31F1S	Pall-Aquasafe Water Filter for 31 Day Use – Tap (with smooth outlet)	12 units per case
AQ31F1S2	Pall-Aquasafe Water Filter for 31 Day Use – Tap (with smooth outlet)	2 units per case
AQFROSE	Pall-Aquasafe Detachable Shower Rose	25 units per case

Quick Connect Adaptors

TAP1/2MN	½ inch, male thread, non-valved	1 unit
TAP1/2MV	½ inch, male thread, valved	1 unit
TAP1/2FN	½ inch, female thread, non-valved	1 unit
TAP1/2FV	½ 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

Technical Data

Pall-Aquasafe Disposable Water Filters (AQ31F1S, AQ31F1S2, AQ31F1R, AQ31F1R2)	CE Marked Medical Device
Membrane area	Approx. 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, AQ31F1S2) 85 mm nominal (AQ31F1R, AQ31F1R2)
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, AQ31F1S2, AQ31F1R, AQ31F1R2) Single use (AQFROSE)
Maximum continuous influent water temperature	60 °C (AQ31F1S, AQ31F1S2, AQ31F1R, AQ31F1R2) 40 °C (AQFROSE)
Maximum temperature exposure	70 °C for a total cumulative period of 30 mins over the life of the filter (AQ31F1S, AQ31F1S2, AQ31F1R, AQ31F1R2). 40 °C AQFROSE.
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, AQ31F1S2, AQ31F1R, AQ31F1R2) are compatible with up to 1.0 mg/L ClO₂ (1 ppm) for use over the indicated life, solutions of 100 ppm free chlorine or pH 12.82 for one hour at ambient temperature (20 °C ± 5 °C) and chemical treatments utilizing 1000 ppm peracetic acid at 60 °C for two hours.

** 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

- 1 Validation Guide. Pall-Aquasafe Water Filter. Disposable Water Filters for 31 Day Use – Tap (AQ31F1S, AQ31F1R) Literature Ref. 10.3976
- 2 Technical Report, Pall-Aquasafe Water Filter, Disposal Water Filter for 31 Day Use – Tap (AQ31F1S, AQ31F1R), Literature Ref. 10.4058
- 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 non-tuberculosis 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.



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