



# Pall-Aquasafe™ Water Filter



## ***In-Line Disposable Water Filter with Quick Connect Inlet and Outlet Ports (Reorder Code: AQIN) – 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*

Increased media area for longer life

Quick connectors on inlet and outlet ports

Fully recyclable materials

Compatible with common systemic heat and chemical disinfection

### **Benefits**

Reduces the risk of water associated nosocomial infection

Provides water for equipment reprocessing, rinsing and ice production\*

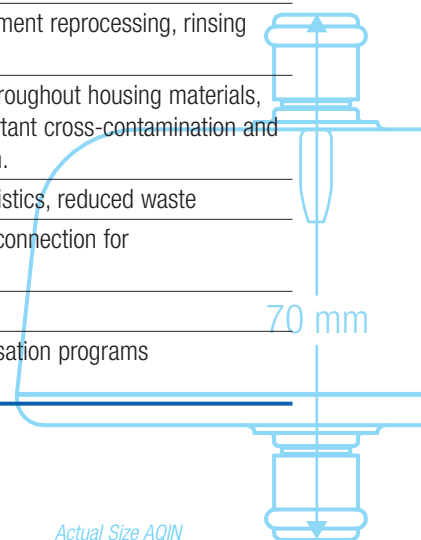
Bacteriostatic additive throughout housing materials, minimises risk of inadvertant cross-contamination and retrograde contamination.

Cost effective, easier logistics, reduced waste

Easy connection and disconnection for change-out logistics

Environmentally friendly

Complementary to sanitisation programs



***Quick Connection, Immediate Protection.***

*Actual Size AQIN*

## Background

The Pall-Aquasafe In-Line Disposable Water Filter with Quick Connect Inlet and Outlet Ports (Reorder Code: AQIN) provide filtered water to maintain stringent water quality in applications such as equipment reprocessing and rinsing, for ice machines\* and water dispensers\* for up to 31 day use. The double layer sterilising grade Supor® membrane is rated and validated at 0.2 µm<sup>1</sup>, and provides protection to patients and vulnerable users by acting as a barrier to 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 utilizes silver technology as an enhanced, non-leaching bacteriostatic additive.



- ▶ **Easy to use, convenient and cost effective**



- ▶ **Water for ice production\* in health care settings**



- ▶ **Water for equipment reprocessing and rinsing**

\*Where local practices and regulations allow.

## Ordering Information

Reorder Code	Description	Packaging
AQIN	Pall-Aquasafe In-Line Disposable Water Filter for 31 Day Use with Quick Connect Inlet and Outlet Ports	12 units per case

### Quick Connect Adaptors

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



Medical

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**Quick Connection, Immediate Protection.**

## Technical Data

Pall-Aquasafe Disposable Water Filters (AQIN)	CE Marked Medical Device
Membrane area	Approx 550 cm <sup>2</sup>
Membrane rating	Sterilising grade** membrane <sup>(2,3)</sup> 0.2 µm Supor with integrated pre-filtration layer (approx 1.0 µm)
Length (including inlet and outlet ports)	70 mm nominal
Maximum upstream operating pressure	5 bar (500 kPa) @ 60 °C
Normal upstream operating pressure	2 – 4 bar (200 – 400 kPa)
Maximum lifetime	31 days
Maximum continuous influent water temperature	60 °C
Maximum temperature exposure	70 °C for a total cumulative period of 30 mins over the life of the filter
Typical water flow rate	3.4 L/min at 1 bar 8.0 L/min at 3 bar 12.8 L/min at 5 bar

**The Pall-Aquasafe Disposable Water Filter (AQIN) is compatible with:**

**Chlorine Dioxide:** up to 1.0 mg/L ClO<sub>2</sub> (1 ppm) over indicated life.

**Active Chlorine:** 100 ppm active chlorine for 1 hour at 20 °C +/- 5 °C.

**Continuous Treatment with Active Chlorine Followed by Shock Treatment:** < 7 ppm active chlorine at 30 °C over indicated life followed by shock treatment with 100 ppm active chlorine solution for 1 hour at 30 °C.

**pH:** pH of 12.82 for 1 hour at 20 °C +/- 5 °C.

**Peracetic Acid:** 1000 ppm peracetic acid at 60 °C for 2 hours.

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

## Reference

- 1 Validation Guide. Pall-Aquasafe Water Filter. Disposable Water Filters for 31 Day Use – Tap (AQIN) Literature Ref. 10.3936.
- 2 American Standard Test Method (ASTM) F838-05. "Determining Bacterial Retention of Membrane Filters Utilised for Liquid Filtration".
- 3 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.
- ▶ 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.
- ▶ 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.
- ▶ Williams *et al.*, Point-of-use membrane filtration and hyperchlorination to prevent patient exposure to rapidly growing mycobacteria in the potable water supply of a skilled nursing facility. *Infect Contr Hosp Epidemiol*, 32:837-4, 2011.
- ▶ Zhou *et al.*, Removal of waterborne pathogens from liver transplant unit water taps in prevention of healthcare-associated infections: a proposal for a cost-effective, proactive infection control strategy. *Clin Microbial Infect*, June 20, 2013.

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