



Medical

PURE & SIMPLE

Pall-Aquasafe™

In-Line Water Filter Traps Waterborne Microbes

Features and Benefits:

- In-line orientation permits application to drinking water dispensers, ice machines, and rinse nozzles for reprocessing of reusable heat-labile medical devices
- Pleated filter membrane for maximum surface area and excellent flow rate
- Filter design supports easy installation, inventory, and transport
- Quick connect/disconnect fitting for effortless replacement
- Seven-day use life after installation
- Pre-sterilized and ready to use



Reduce Exposure To Waterborne Pathogens: A Reservoir of Risk

Help deliver *pure and simple* protection with the complete line of Pall-Aquasafe™ water filters.

Pall-Aquasafe™

In-Line Water Filter Traps Waterborne Microbes



Reduce Exposure To Waterborne Pathogens: A Reservoir of Risk

Tap water is a reservoir of risk that can contain many bacterial, fungal, and parasitic pathogens^(1-5, 8-14). In complex plumbing systems, these pathogens not only float freely but also form biofilm communities that adhere to internal pipe surfaces^(6, 7). Biofilms in turn continually release microbes into the passing water stream.

Many facilities rely upon water disinfection systems to rid their tap water of microbial pathogens. Unfortunately, these systems cannot completely destroy biofilm and are ineffective when overloaded with waterborne microbes as a result of facility construction, renovation, and seasonal water quality variation. The Pall-Aquasafe™ in-line water filter's 0.2 micron bacterial retention pleated membrane separates microbes from drinking water, ice, and rinse water used for the reprocessing of reusable heat-labile medical devices.

At-risk patients and those with weakened immune systems are particularly vulnerable to direct contact with pathogens in contaminated tap water, whether it be in the form of a liquid stream, an inhaled aerosol of water droplets, ice in a beverage, contact with a rinsed medical device or the just-washed hands of a caregiver. Pall-Aquasafe™ filters (in-line, tap, and shower) lift patient safety to a higher level.

Common Waterborne Pathogens:

- Bacteria
 - Pseudomonas aeruginosa*
 - Legionella pneumophila*
 - Mycobacterium spp.*
 - Stenotrophomonas spp.*
 - Acinetobacter spp.*
 - Aeromonas spp.*
 - Burkholderia spp.*
 - Klebsiella spp.*
 - Nocardia spp.*
 - Enterobacter spp.*
 - Serratia spp.*
 - Flavobacterium spp.*
- Fungi
 - Aspergillus fumigatus*
 - Fusarium solani*
 - Exophiala jeikei*
- Parasites
 - Cryptosporidium parvum*
 - Giardia lamblia*
 - Acanthamoeba spp.*

Typical Applications:

- Drinking water
- Water source to ice machines
- Water used for rinsing reusable heat-labile medical devices during reprocessing (e.g. flexible endoscopes)

Potential Installation Sites⁽¹¹⁾:

- Bone Marrow Transplant
- Burn
- Solid Organ Transplant*
- Neonatal Intensive Care
- Pediatric Intensive Care
- Hematology/Oncology
- Surgical Intensive Care
- Endoscopy
- Cardiac Intensive Care
- Respiratory Intensive Care

Pall-Aquasafe™ water filters are not intended to be used for the production of water for infusion or injection.

Technical Data

	AQF1C
Membrane Area	520 cm ²
Membrane Rating	0.2 micron
Membrane Material	Nylon 6,6
Flow Rate at 45 psig	3.1 liters/minute
Length (excluding connectors)	2.7 inches (69mm)
Maximum Operating Pressure	74 psi@122°F
Normal Operating Pressure	30-60 psig
Maximum Use Life	7 days

Ordering Information

Part Number	Description	Packaging
AQF1Ca	Pall-Aquasafe™ In-Line Water Filter with Quick Connect Inlet and Outlet Ports	10 filters per case

Pall Medical also offers quick connect/disconnect fittings to simplify your initial installation of the Pall-Aquasafe™ In-Line Water Filter. Consult your Pall Medical Sales Representative or call Customer Support (866.347.3428) for additional information.

References

1. Annessi, E.J., S. R. Penzak, and M.C. Dignani. 2002. The hospital water supply as a source of nosocomial infections - a plea for action. *Arch. Intern. Med.* 162:1483-1492.
2. Annessi, E.J. et al. April 2003. Pathogenic molds (including *Aspergillus* species) in hospital water distribution systems: a 3-year prospective study and clinical implications for patients with hematologic malignancies. *Blood*. 101(7):2542-2546.
3. Angelbeck, J.H. 2004. *Legionella* - a waterborne nosocomial pathogen. *Pall Medical Clinical Update*.
4. Angelbeck, J.H. 2004. Nosocomial aspergillosis - the risk at the water tap or shower. *Pall Medical Clinical Update*.
5. Angelbeck, J.H. October 2004. Stopping *Legionella* and other waterborne pathogens in their tracks. *Water Conditioning and Purification*. Pages 62-65.
6. Costerton, J.W. and P.S. Stewart. 2001. Battling biofilms. *Scientific American*. 285(1):74-81.
7. Fu, C.A., P. Stoodley, L. Hall-Stoodley, and J.W. Costerton. 2003. Bacterial biofilms: a diagnostic and therapeutic challenge. *Expert Rev. Anti-Infect. Ther.* 1(4): 89-105.
8. Greub, G. and D. Raouf. 2004. Microorganisms resistant to free-living amoebae. *Clin. Micro. Reviews*. 17(2):413-433.
9. Kool, J.L. et al. 1998. More than 10 years of unrecognized nosocomial transmission of legionnaires' disease among transplant patients. *Infect. Cont. Hosp. Epidemiol.* 19(12):898-904.
10. Merlani, G.M. and P. Francioli. 2003. Established and emerging waterborne nosocomial infections. *Curr. Opin. Infect. Dis.* 16:343-347.
11. Ortolano, G.A., M.B. McAlester, J.H. Angelbeck, J. Schaffer, R.L. Russell, E. Maynard, and B. Wenz. 2004. Hospital water point-of-use filtration: a complementary strategy to reduce the risk of nosocomial infection. *Filtration*. Supplement 1:2-25.
12. Pall Medical Clinical Update. 2003. Hospital water: an unrecognized source for the transmission of waterborne pathogens.
13. Roark, J. August 2004. Splash splash - what's taking a bath in your hospital's water system? *Infect. Control Today*. 8(8):32-41.
14. Squier, C., V.L. Yu, and J. E. Stout. 2000. Waterborne nosocomial infections. *Current Inf. Dis. Rep.* 2:490-496.



United States
2200 Northern Boulevard
East Hills, NY 11548-1289

800.645.6578 toll free phone
516.484.5400 phone
516.484.8688 fax

Filtration. Separation. Solution.™

Visit us on the Web at www.pall.com

Pall Corporation has offices and plants throughout the world in locations including: Argentina, Australia, Austria, Belgium, Brazil, Canada, China, France, Germany, India, Indonesia, Ireland, Italy, Japan, Korea, Malaysia, Mexico, the Netherlands, New Zealand, Norway, Poland, Puerto Rico, Russia, Singapore, South Africa, Spain, Sweden, Switzerland, Taiwan, Thailand, United Kingdom, United States, and Venezuela. Distributors are located in all major industrial areas of the world.

© Copyright 2005, Pall Corporation. Pall, , Pall-Aquasafe are trademarks of Pall Corporation. ® Indicates a Pall trademark registered in the USA. Filtration. Separation. Solution.™ is a service mark of Pall Corporation.

AQF1Ca Sell Sheet 0305