



Issue 3 The information hub is designed to provide - mainly technical - information relating to Water Coolers and Boilers, to assist you with your work

Nano Filter Technology

Outstanding Pharma Rating and Metal Removal, superior Flow Rate and unrivalled Recyclability

The Ahlstrom material used for the NANOFILTER Filter Candles is NSF/ANSI 53 certified. It removes 99.98% of Cysts, Cryptosporidium, E Coli, Giardia, Pseudomonas and provides some protection against Legionella, Salmonella, Mycobacteria and Aspergillus. It also removes 99.5% of Lead and Chromium, 98% of Copper and 87% of Iron.

Microbiological removal efficiencies for the Ahlstrom Candles

Type	Organism	Size, µm	Cartridge	Removal Efficiency, %	Comment
Virus	Poliovirus 1	0.025-0.030	VS2.5-5	>99.92±0.01%	Ref. (1) ^a
	Echovirus 1	0.050-0.080	VS2.5-5	>99.98±0.00%	Ref. (1) ^a
	Coxsackievirus B5	0.027	VS2.5-5	>99.991±0.01%	Ref. (1) ^a
Adenovirus	Adenovirus	0.070-0.090	VS2.5-5	>99.997±0.00%	Ref. (1) ^a
	MS2	0.027	VS2.5-5	99.9%	Ref. (2) ^b
Bacteriophage			P2.5-10	99.92%	Ref. (3) ^c
			PAC2.5-10	99.96%	Ref. (3) ^c
			P2.5-10	99.994±0.004%	Ref. (2) ^b
			PAC2.5-5	>99.999%	Ref. (3) ^c
		Male specific coliphages		VS2.5-5	>98%
Bacteria	Pseudomonas Aeruginosa	(0.5-1) ^{e,f} , (2-5) ^{e,g}	VS2.5-5	99.995±0.027%	Ref. (2) ^b
			PAC2.5-5AG	99.999±0.002%	Ref. (2) ^b
	E. coli	0.5 ^f -2 ^g	PAC2.5-5	99.99992%	Ref. (3) ^c
	Raoultella terrigena	(0.3-1) ^f , (0.6-6) ^g	P2.5-10	>99.99992%	Ref. (3) ^c

Notes: a) Ref. (1). L. A. Ikner, M. Soto-Beltran, and K. R. Bright, Appl. Environ. Microbiol., March 25, 2011; b) Ref. (2). Argonide datasheet. Prior to each sampling point the cartridge was conditioned with 10 void volumes (~5 L for P2.5x5 and PAC2.5x5AG) and 200 mL sample was collected at 0.5 GPM. Test was done according to NSF/ANSI P231 standard, specifically for sample point #1; c) Ref. (3). F. Tepper, L. Kaledin, O. Vargas, and T. Kaledin, IWC-10-47, October 24-28, 2010, San Antonio, TX; d) Ref. (4). C. D. Gibbons, R. A. Rodrigues, L. Tallon, and M. D. Sobsey. J. Appl. Microbiology, 2010; e) Ref. (5). J. L. Melnick, M. Rhian, J. Warren and S. S. Breese Jr. J. Immunology, 1951 vol. 67 pp. 151-162 diameter; f) length; g) Ref. (5). J. L. Melnick, M. Rhian, J. Warren and S. S. Breese Jr. J. Immunology, 1951 vol. 67 pp. 151-162



NANOFILTER's Offer Better Filtration, Exceptional Flow Rate & Resistance To Blocking

The multi-layered woven structure of the Ahlstrom Filter material ensures superior filtration, resists blocking due to peaty water and ensures a good flow rate to counter low water pressure.



NANOFILTERS are Greener than Conventional Filters

The NANOFILTER plastic housing is re-usable for many years, thereby reducing plastic waste and the NANOFILTER Filter Candles can be disposed with household waste – making the NANOFILTER the GREENEST Filter System on the market.



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