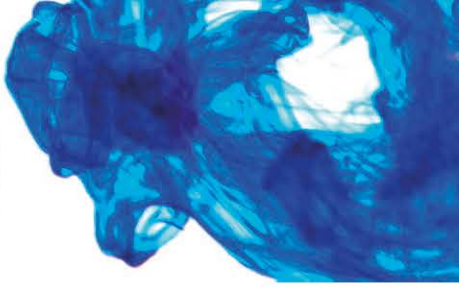
AA FIRST information hub
knowledge is strength



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

A major development in Water Filters

In addition to the removal of the Chlorine taste and smell, NANO Filter Technology has an outstanding Viral and Pharma rating and is resistant to blocking and works with lower water pressure.

Microbiological removal efficiencies for the NanoCeram Cartridges

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	0.070-0.090	VS2.5-5	>99.997±0.00%	Ref. (1)[a]
Bacteriophage	MS2	0.027	VS2.5-5	99.9%	Ref. (2)[b]
			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%	Ref. (4)[d]
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. Rodriges, 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. 151-162diameter; f) length; g) Ref. (5). J. L. Melnick, M. Rhian, J.

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The NanoCeram material used in the AA NANOFilter removes 99.98% of Cryptosporidium, Giardia Intestinalis and E.Coli and provides protection against Legionella, Pseudonomas, Salmonella, Mycobateria and Aspergillus. At the same time our NANO Filter ensures a high flow rate, even at a slow water pressure, whilst substantially reducing the risk of blocking.

NANOFilter Green Credentials

The NANOFilter Plastic Housing is re-usable and the NANOFilter Candle can be disposed with household waste, making it the a truly GREEN Filter System.

NANOFilter Flow Rate

The AA Filter Video compares the increased flow rate of the NANOFilter compared to a 1 micron Carbon Block. Watch Now!

Visit: http://www.aafirst.co.uk/nano-filter-technology

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