

Eco Waterhouse Technologies Inc.

KDF/GAC Shower Filter K50

NATIONAL SANITATION FOUNDATION STANDARD 53 SECTION 5.2 - CHEMICAL REDUCTION PERFORMED BY INDEPENDENT LABORATORY

30,000 gallons of city water, spiked with high levels of specific contaminants, was run through a KDF/GAC cartridge. The efficiency shown below was measured after 30,000 gallons had passed through the cartridge (when the cartridge is new, removal is 99+%). Most other non-standard tests show results after one pass of contaminated water, which does not indicate how the filter will perform towards the end of its life. To pass the NSF protocol, the effluent must be under the EPA Maximum Contaminant Level (MCL) throughout the test.

CONCENTRATIONS MEASURED IN MILLIGRAMS PER LITER (MG/L)

CHEMICAL	INFLUENT	TIMES EPA MCL	EFFLUENT	REMOVAL RATE	EPA MCL
THM (chloroform)	0.57	6X	0.029	95%	0.1
Lead	0.19	8X	0.006	97%	0.025
Fluoride (1)	8.26	6X	0.78	91%	1.4
Nitrate (1)	30.7	3X	8.03	74%	10.0
Barium	10.4	10X	0.56	95%	1.0
Arsenic	0.37	7X	0.007	98%	0.05
Cadmium	0.03	8X	0.004	87%	0.01
Chromium VI	0.15	3X	0.011	93%	0.05
Chromium III	0.163	3X	0.003	98%	0.05
Selenium	0.1	10X	0.006	94%	0.01
Mercury	0.006	3X	0.000*	99+%	0.002
Endrin	0.0008	4X	0.000*	99+%	0.0002
Lindane	0.011	3X	0.0012	89%	0.004
Methoxychlor	0.32	3X	0.0059	98%	0.1
Toxaphene	0.013	3X	0.000*	99+%	0.005
2,4-D	0.3	3X	0.02	93%	0.1
Silvex (2,4,5-TP)	0.029	3X	0.004	86%	0.01

* Below detectable limit

(1) - While this test shows a reduction in these contaminants, KDF is inconsistent in their removal in certain water conditions. We offer special nitrate and fluoride filters, or reverse osmosis, if removal is needed.

A separate test was run to determine chlorine removal capacity. The challenge solution contained 3 mg/l chlorine. 2 mg/l lead was also added. At 20,000 gallons, both were being removed 99.9+%. The test was terminated at 38,400 gallons when the chlorine removal rate hit 90% - the lead removal was still 97.6%.



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