

## Performance Data for the Epic Water Filters Outdoor Bottle Filter

Replacement	Product Type	Capacity	Operating Tempertures
EW-RPFT-OUT-X01	Water Bottle Filter	100 Gallons (378.5 L)	38-85 F (4-30 C)
Testing Updated: 02/05/2020	Manufactured by Epic Water Filters   Boulder, CO USA   720-600-0371		

Testing performed under NSF/ANSI Standards 42, 53, P231 & 401. This filter has been tested according to NSF/ANSI 42, 53, P231 & 401. for the reduction of substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permittable limit for the water leaving the filter as specified in NSF/ANSI 42, 53, P231 & 401. Additional testing has been performed for the removal or reduction of haloacetic acids & perfluorinated compounds (PFOA, PFOS).

Micro-Organisms NSF/ANSI P231			
Contaminant	Influent Water (µg/L)	Filtered Water (µg/L)	% Removal
Pseudomonas aerugin	120,000,000	150	99.9999%
Giardia	14,000,000	<100	99.999%
Cryptosporidium	14,000,000	<100	99.999%
E. Coli	120,000,000	150	99.9999%
Klebsiella pneumoniae	120,000,000	150	99.9999%
Virus MS2 Phage	11,540,000	5250	99.95%
Chemical Additives NSF/ANSI 42/53			
Contaminant	Influent Water (mg/L)	Filtered Water (mg/L)	% Removal
Chlorine	2.21 mg/L	0.06	96.8%
Fluoride	1.99 mg/L	0.64	68%
Nitrate	27.5 mg/L	3.25	88.2%
Chloramine	3.3 mg/L	0.31	90.61%
Sulfate	806 mg/L	66	91.8%
Heavy Metals NSF/ANSI 42/53			
Contaminant	Influent Water (µg/L)	Filtered Water (µg/L)	% Removal
Aluminum	204	<1	99.5%
Arsenic	49.9	3.1	95%
Barium	965	114	89.2%
Beryllium	50.3	<1	98%
Cadmium	30.1	<1	96.7%
Chromium 6	307	10.5	96.6%
Copper	3040	33.1	98.9%
Iron	3091	153	95.2%
Lead	157	<1	99.4%
Manganese	1004	4.2	99.6%
Mercury	6.1	<0.5	91.8%
Zinc	165	19.1	88.4%
Perfluorinated Compounds			
Contaminant	Influent Water (µg/L)	Filtered Water (µg/L)	% Removal
Perfluorooctanoic Acid (PFOA)	0.53	<0.002	>99.6%
Perfluorooctanane Sulfonate (PFOS)	1.05	<0.002	>99.8%

Pesticides NSF/ANSI 53			
Contaminant	Influent Water (µg/L)	Filtered Water (µg/L)	% Removal
Alachlor	504	<0.1	>99.9%
Hexachlorobenzene	50.3	<0.1	>99.8%
Hexachlorocyclopentadiene	49.3	<0.1	>99.8%
Delta-BHC	50.5	<0.1	>99.8%
Propachlor	50.3	<0.1	>99.8%
Molinate	50.6	<0.1	>99.8%
Alpha-BHC	50.2	<0.1	>99.8%
Beta-BHC	50.1	<0.1	>99.8%
Gamma-BHC (Lindane)	50.1	<0.1	>99.8%
Atrazine	99.4	<0.1	>99.8%
Simazine	51	<0.1	>99.8%
Metribuzin	49.8	<0.1	>99.8%
Heptachlor	48.4	<0.1	>99.8%
Metolachlor	50.1	<0.1	>99.8%
Butylate	42.3	<0.1	>99.8%
2,4-D	50.4	<0.1	>99.8%
Aldrin	49.2	<0.1	>99.8%
Heptachlor Epoxide	50.2	<0.1	>99.8%
Trans-Chlordane (Nonachlor)	50.8	<0.1	>99.8%
Butachlor	50.2	<0.1	>99.8%
Endosulfan I	42	<0.1	>99.8%
Cis-Chlordane	51.2	<0.1	>99.8%
p,p'-DDE	56.3	<0.1	>99.8%
Dieldrin	48.2	<0.1	>99.8%
Endrin	60.5	<0.1	>99.8%
Endosulfan II	40.5	<0.1	>99.8%
p,p'-DDD	44.3	<0.1	>99.8%
Endrin Aldehyde	44.1	<0.1	>99.8%
p,p'-DDT	602	<0.1	>99.8%
Endosulfan Sulfate	50.5	<0.1	>99.8%
Endosulfan Sulfate	50.5	<0.1	>99.8%

Volatile Organic Compounds NSF/ANSI 53			
Contaminant	Influent Water (µg/L)	Filtered Water (µg/L)	% Removal
Chloromethane	50.5	<0.5	>99.0%
Vinylchloride	42	<0.5	>98.9%
Bromomethane	21	<0.5	>97.8%
Chloroethane	28.5	<0.5	>98.2%
Fluorotrichloromethane	28.2	<0.5	>98.2%
1, 1-Dichloroethene	78	<0.5	>99.4%
Methylene Chloride	18	<0.5	>97.3%
trans-1, 2-Dichloroethene	79.4	<0.5	>99.4%
MTBE	74.4	<0.5	>99.3%
1, 1-Dichloroethane	90.1	<0.5	>99.5%
cis-1, 2-Dichloroethene	180.5	<0.5	>99.7%
2, 2-Dichloropropane	10.1	<0.5	>95.1%
Bromochloromethane	80.7	<0.5	>99.4%
Carbon Tetrachloride	88.5	<0.5	>99.4%
1, 1, 1-Trichloroethane	84.8	<0.5	>99.4%
1, 1-Dichloropropane	8.8	<0.5	>94.3%
Benzene	80.4	<0.5	>99.4%
1, 2-Dichloroethane	88.2	<0.5	>99.4%
Trichloroethene	180.5	<0.5	>99.7%
Dibromomethane	18.1	<0.5	>97.2%
1, 2-Dichloropropane	80.1	<0.5	>99.4%
cis-1, 3-Dichloropropane	80.5	<0.5	>99.4%
Toluene	78.2	<0.5	>99.4%
trans-1, 3-Dichloropropane	80.5	<0.5	>99.4%
Tetrachloroethene	85	0.47	99.40%
1, 1, 2-Trichloroethane	110.1	<0.5	>99.5%
1, 3-Dichloropropane	92.2	<0.5	>99.5%
Ethylene Dibromide (E)	44.8	<0.5	>98.9%
Ethylbenzene	88.2	<0.5	>99.4%
Chlorobenzene	78.2	<0.5	>99.4%
m and p-Xylene	80.1	<0.5	>99.4%
o-Xylene	40.2	<0.5	>98.8%
Styrene	150.2	<0.5	>99.7%
Isopropylbenzene	6.8	<0.5	>92.6%
n-propylbenzene	9.38	<0.5	>94.7%
Bromobenzene	12.1	<0.5	>95.9%
2-Chlorotoluene	10.4	<0.5	>95.2%
1, 2, 3-Trichloropropane	19.5	<0.5	>97.4%
4-Chlorotoluene	10.2	<0.5	>95.1%
Tert-Butylbenzene	10.4	<0.5	>95.2%
1, 2, 4-Trimethylbenzene	10.1	<0.5	>95.0%

Pesticides NSF/ANSI 53			
Contaminant	Influent Water (µg/L)	Filtered Water (µg/L)	% Removal
Endrin Ketone	50.2	<0.1	>99.8%
Methoxychlor	50.1	<0.1	>99.8%
Bromacil	49.1	<0.1	>99.8%
Carbofuran	80.8	<0.1	>99.8%
Chlorneb	50.2	<0.1	>99.8%
Chlorthalonil	50.4	<0.1	>99.8%
Chlorprophane	52.1	<0.1	>99.8%
Cyanazine	50.8	<0.1	>99.8%
Dichlorvos	50.4	<0.1	>99.8%
Diphenamid	51	<0.1	>99.8%
Disulfoton	51.2	<0.1	>99.8%
Fenamiphos	50.1	<0.1	>99.8%
Fenarimol	50.8	<0.1	>99.8%
Fluoridone	49.1	<0.1	>99.8%
Ethoprop	50.3	<0.1	>99.8%
Toxaphene	15.1	<0.1	>99.3%
PCB's	10.2	<0.1	>99%
Total Trihalomethanes NSF/ANSI 53			
Contaminant	Influent Water (µg/L)	Filtered Water (µg/L)	% Removal
Chloroform	84.8	5.92	93.60%
Bromodichloromethane	81.5	<0.5	>99.4%
Chlorodibromomethane	80.8	<0.5	>99.4%
Bromoform	81.7	<0.5	>99.4%
Semi-Volatiles NSF/ANSI 53			
Contaminant	Influent Water (µg/L)	Filtered Water (µg/L)	% Removal
N-Nitrosodimethylamine	50.3	<0.1	>99.8%
Phenol	50.5	<0.1	>99.8%
Bis(2-chloroethyl) ether	50.2	<0.1	>99.8%
2-Chlorophenol	50.7	<0.1	>99.8%
1,3-Dichlorobenzene	51.8	<0.1	>99.8%
1,4-Dichlorobenzene	50.2	<0.1	>99.8%
1,2-Dichlorobenzene	50.8	<0.1	>99.8%
2,2-Oxybis(1-chloropropane)	51	<0.1	>99.8%
Hexachloroethane	50.1	<0.1	>99.8%
N-Nitroso-di-n-propylamine	48.8	<0.1	>99.8%
Nitrobenzene	60.5	0.5	99.20%
Isophrone	50.1	<0.1	>99.8%
2-Nitrophenol	49.8	0.5	99%
2,2-Dimethylphenol	50.1	1.1	97.80%
Bis(2-chloroethoxy)methane	47.8	<0.1	>99.8%
1,2,4-Trichlorobenzene	50.8	<0.1	>99.8%

Volatile Organic Compounds NSF/ANSI 53			
Contaminant	Influent Water (µg/L)	Filtered Water (µg/L)	% Removal
sec-Butylbenzene	7.86	<0.5	>93.6%
4-Isopropyltoluene	10	<0.5	>95%
1, 3-Dichlorobenzene	40.2	<0.5	>98.8%
1, 4-Dichlorobenzene	40	<0.5	>98.8%
n-Butylbenzene	10.1	<0.5	>95%
1, 2-Dichlorobenzene	80.4	<0.5	>99.4%
Dibromo-3-Chloropropan	50.2	<0.5	>99%
Hexachlorobutadiene	44	<0.5	>98.9%
1, 2, 4-Trichlorobenzene	13.8	<0.5	>96.4%
Naphthalene	160	<0.5	>99.7%
1, 2, 3-Trichlorobenzene	14.4	<0.5	>96.5%
Bromobenzene	12	<0.5	>95.9%
2-Chlorotoluene	10.6	<0.5	>95.2%
1, 2, 3-Trichloropropane	19.2	<0.5	>97.4%
4-Chlorotoluene	10.5	<0.5	>95.1%
Tert-Butylbenzene	10.3	<0.5	>95.2%
1, 2, 4-Trimethylbenzene	10.8	<0.5	>95%
sec-Butylbenzene	7.88	<0.5	>93.6%
4-Isopropyltoluene	10.1	<0.5	>95%
1, 3-Dichlorobenzene	40.5	<0.5	>98.8%
1, 4-Dichlorobenzene	40	<0.5	>98.8%
n-Butylbenzene	10	<0.5	>95%
1, 2-Dichlorobenzene	80.3	<0.5	>99.4%
Dibromo-3-Chloropropan	50.1	<0.5	>99%
Hexachlorobutadiene	44	<0.5	>98.9%
1, 2, 4-Trichlorobenzene	13.9	<0.5	>96.4%
Naphthalene	160	<0.5	>99.7%
1, 2, 3-Trichlorobenzene	14.5	<0.5	>96.5%
Bromoacetonitrile	22	<0.5	>97.7%
Dibromoacetonitrile	28.5	<0.5	>98%
Dichloroacetonitrile	9.9	<0.5	>94.9%
Trichloroacetonitrile	15	<0.5	>96.7%
1,1-Dichloro-2-propanol	7.9	<0.5	>93.6%
1,1,1-Trichloro-2-propanol	14	<0.5	>96.5%
1,4-Dioxane	49.6	<0.1	99.78%
Pharmaceuticals & Emerging Contaminants NSF/ANSI 401			
Contaminant	Influent Water (µg/L)	Filtered Water (µg/L)	% Removal
Bisphenol A	2.02	<0.02	>99%
Ibuprofen	0.46	<0.02	>95.6%
Trimethoprim	0.2	<0.02	>90%
Naproxen	0.21	<0.02	>90.9%

Semi-Volatiles NSF/ANSI 53			
Contaminant	Influent Water (µg/L)	Filtered Water (µg/L)	% Removal
Naphthalene	49.1	<0.1	>99.8%
Hexachlorobutadiene	50.6	<0.1	>99.8%
4-Chloro-3-methylphenol	51	<0.1	>99.8%
Hexachlorocyclopentadiene	50.6	<0.1	>99.8%
2,4,6-Trichlorophenol	50	0.5	99%
2-Chloronaphthalene	50.8	<0.1	>99.8%
Acenaphthylene	48.4	<0.1	>99.8%
Dimethylphthalate	50	0.4	99.20%
2,6-Dinitrotoluene	48.1	<0.1	>99.8%
Acenaphthene	37	<0.1	>99.7%
2,4-Dinitrophenol	50	0.5	99%
1, 1, 2, 2-Tetrachloroethane	81.8	<0.5	>99.8%
4-Nitrotoluene	48.9	<0.1	>99.8%
Fluorene	48.8	<0.1	>99.8%
4-Chlorophenyl phenyl ether	50.8	<0.1	>99.8%
Diethylphthalate	50.1	<0.1	>99.8%
Dinitro-o-cresol	48.2	<0.1	>99.8%
Diphenylamine	74	<0.1	>99.8%
4-Bromophenyl phenyl ether	46.8	<0.1	>99.8%
Hexachlorobenzene	48	<0.1	>99.8%
Phenanthrene	50.8	<0.1	>99.8%
Anthracene	51.4	<0.1	>99.8%
Di-n-butylphthalate	51.8	1.4	97.3%
Fluoranthene	50.2	<0.1	>99.8%
Pyrene	52.8	<0.1	>99.8%
Benzyl butyl phthalate	50.2	<0.1	>99.8%
Benzo(a) anthracene	50.1	<0.1	>99.8%
Chrysene	50.5	<0.1	>99.8%
Bis(2-ethylhexyl) phthalate	51	1	86.5%
Di-n-octyl phthalate	51.1	<0.1	>99.8%
Benzo(b) fluoranthene	52.5	<0.1	>99.8%
Benzo(k) fluoranthene	51.3	<0.1	>99.8%
Benzo(a) pyrene	50.6	<0.1	>99.8%
Indeno(1,2,3-cd) pyrene	50.2	<0.1	>99.8%
Dibenzo(a,h)anthracene	50.4	<0.1	>99.8%
Benzo(g,h,i) perylene	50.3	<0.1	>99.8%

Herbicides NSF/ANSI 53			
Contaminant	Influent Water (µg/L)	Filtered Water (µg/L)	% Removal
Dalapon	270.4	<0.1	>99.9%
3,5-Dichlorobenzoic	29	<0.1	>99.6%

Pharmaceuticals & Emerging Contaminants NSF/ANSI 401			
Contaminant	Influent Water (µg/L)	Filtered Water (µg/L)	% Removal
Acetaminophen	2.42	<0.02	>99.2%
Ciprofloxacin	2.605	<0.02	>99.2%
Sulfamethoxazole	2.01	<0.02	>99%
17-beta-Estradiol	2.002	<0.02	>99%
Caffeine	1.845	<0.02	>98.9%
Fluoxetine	1.95	<0.02	>99%
Gemfibrozil	1.96	<0.02	>99%
Triclosan	1.27	<0.02	>98.4%
Estrone	0.25	<0.02	>91.3%
Diclofenac Sodium	1.94	<0.02	>98.9%
Primidone	1.99	<0.02	>99%
Carbamazepine	1.47	<0.02	>98.6%
Testosterone	1.46	<0.02	98.60%
Progesterone	2.09	<0.02	>99%
4-tert-Octylphenol	2.04	<0.02	>99%
17-alpha-Ethynylestradiol	2.2	<0.02	>99.1%
4-para-Nonylphenol	2.3	<0.02	>99.1%
Meprobamate	0.45	<0.02	>95.6%
Erythromycin	1.42	<0.02	>98.6%
4-Tert-Octylphenol	1.47	<0.02	>98.6%
Haloacetic Acids			
Contaminant	Influent Water (µg/L)	Filtered Water (µg/L)	% Removal
Monochloroacetic Acid	191.2	2.92	98.47%
Monobromoacetic Acid	421.11	<0.01	>99.99%
Dichloroacetic Acid	568.33	<0.01	>99.99%
Trichloroacetic Acid	416.83	1.3	99.77%
Bromochloroacetic Acid	452.04	2.63	99.42%
Dibromoacetic Acid	425.52	<0.01	>99.99%

Herbicides NSF/ANSI 53			
Contaminant	Influent Water (µg/L)	Filtered Water (µg/L)	% Removal
Dicamba	150.7	<0.1	>99.9%
Diclorprop	151	<0.1	>99.9%
2,4-D	20.2	<0.1	>99.5%
Pentachlorophenol	22.8	<0.1	99.60%
2,4,5-T	150.2	<0.1	>99.9%
Chloramben	28.8	<0.1	>99.6%
2,4,5-TP	17.4	<0.1	98.9%
2,4-DB	33.4	<0.1	>99.7%
Dinosep	52.5	<0.1	>99.8%
Bentazon	40.5	<0.1	>99.7%
Picloram	40.5	<0.1	>99.7%
DCPA	43.8	<0.1	>99.8%
Quinclorac	42.2	<0.1	>99.9%
Acifluoren	42.48	<0.1	>99.9%
Glyphosate	802	<0.1	>99.9%
Microplastics			
Contaminant	Microplastics / L	Filtered Water (µg/L)	% Removal
Microplastics	430,200	3,240	99.25%
Radiological Elements			
Contaminant	Microplastics / L	Filtered Water (µg/L)	% Removal
Gross Alpha	37.2	<0.1	>99.73
Plutonium 238/239	37.2	<0.1	>99.73
Radium 226/228	37.2	<0.1	>99.73
Thorium 230	37.2	<0.1	>99.73
Uranium 235/238	37.2	<0.1	>99.73
Gross Beta	36.4	<0.1	>99.73
Cesium 137	36.4	<0.1	>99.73
Cobalt 60	36.4	<0.1	>99.73
Iodine 129/131	36.4	<0.1	>99.73
Strontium 90	36.4	<0.1	>99.73
Pesticides NSF/ANSI 53			
Contaminant	Influent Water (µg/L)	Filtered Water (µg/L)	% Removal
Chlorpyrifos	66.9	<0.5	>99.25%



### CERTIFICATION OF RESULTS:

All analyses, and reporting performed herein, comply with all requirements set forth in N.J.A.C. 7:9E and N.J.A.C. 7:18, and hereby certify that this laboratory is in compliance with all laboratory certification and quality control procedures and requirements as set forth in N.J.A.C. 7:18; the NYCRR Subpart 55-2, the National Environmental Laboratory Accreditation Conference (NELAC) Institute Standards, the ISO 17025 and the Water Quality Association (WQA).