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EPA ID # DE00946 NJDEP ID # DE009 IAPMO ID #102

WIDE SPECTRUM FILTRATION - UC-200 SERIES

UNDER-COUNTER FILTER

REDUCTION TEST REPORT

Report # 18-537

Report Date: 11/24/2018

Customer Name: CuZn

Pesticides ($\mu\text{g/L}$) (ppb)

<u>Contaminant Tested</u>	<u>Influent Solution</u>	<u>Effluent</u>	<u>% Reduction</u>
Alachlor	502	<0.1	>99.9%
Hexachlorobenzene	50.1	<0.1	>99.8%
Hexachlorocyclopentadiene	52.0	<0.1	>99.8%
Delta-BHC	50.1	<0.1	>99.8%
Propachlor	50.2	<0.1	>99.8%
Molinate	50.1	<0.1	>99.8%
Alpha-BHC	50.0	<0.1	>99.8%
Beta-BHC	50.1	<0.1	>99.8%
Gamma-BHC (Lindane)	50.2	<0.1	>99.8%
Atrazine	100.4	0.1	>99.8%
Simazine	50.1	<0.1	>99.8%
Metribuzin	50.2	<0.1	>99.8%
Heptachlor	51.4	<0.1	>99.8%
Metolachlor	50.2	<0.1	>99.8%
Butylate	41.1	<0.1	>99.8%
2,4-D	50.1	<0.1	>99.8%
Aldrin	50.5	<0.1	>99.8%
Heptachlor Epoxide	50.2	<0.1	>99.8%
Trans-Chlordane (Nonachlor)	50.1	<0.1	>99.8%
Butachlor	50.2	<0.1	>99.8%
Endosulfan I	42.0	<0.1	>99.8%
Cis-Chlordane	50.5	<0.1	>99.8%
p,p'-DDE	56.0	<0.1	>99.8%
Dieldrin	48.2	<0.1	>99.8%
Endrin	61.3	<0.1	>99.8%
Endosulfan II	40.2	<0.1	>99.8%
p,p'-DDD	44.1	<0.1	>99.8%
Endrin Aldehyde	45.1	<0.1	>99.8%
p,p'-DDT	60.5	<0.1	>99.8%

Endosulfan Sulfate	51.5	<0.1	>99.8%
Endrin Ketone	50.3	<0.1	>99.8%
Methoxychlor	50.1	<0.1	>99.8%
Bromacil	50.1	<0.1	>99.8%
Carbofuran	80.4	0.1	>99.8%
Chlorneb	50.5	<0.1	>99.8%
Chlorthalonil	51.2	<0.1	>99.8%
Chlorprophane	52.5	<0.1	>99.8%
Cyanazine	50.5	<0.1	>99.8%
Dichlorvos	51.4	<0.1	>99.8%
Diphenamid	49.0	<0.1	>99.8%
Disulfoton	50.2	<0.1	>99.8%
Fenamiphos	52.1	<0.1	>99.8%
Fenarimol	50.0	<0.1	>99.8%
Fluoridone	50.1	<0.1	>99.8%
Ethoprop	50.4	<0.1	>99.8%
Toxaphene	15.1	<0.1	>99.8%
PCB's	10.4	<0.1	>99.8%
Chlorpyrifos	50.2	<0.1	>99.8%
Glyphosate	804	0.1	99.9%

Volatile Organic Compounds (µg/L) (ppb)

<u>Contaminant Tested</u>	<u>Influent Solution</u>	<u>Effluent</u>	<u>% Reduction</u>
Chloromethane	50.2	<0.1	>99.8%
Vinylchloride	42.3	<0.1	>99.8%
Bromomethane	21.3	<0.1	>99.5%
Chloroethane	29.1	<0.1	>99.7%
Fluorotrichloromethane	28.3	<0.1	>99.6%
1, 1-Dichloroethene	78.1	<0.1	>99.9%
Methylene Chloride	18.0	<0.1	>99.4%
trans-1, 2-Dichloroethene	78.2	<0.1	>99.9%
MTBE	73.4	<0.1	>99.9%
1, 1-Dichloroethane	92.3	<0.1	>99.9%
cis-1, 2-Dichloroethene	181.5	<0.1	>99.9%
2, 2-Dichloropropane	10.0	<0.1	>99.0%
Bromochloromethane	80.8	<0.1	>99.9%
Carbon Tetrachloride	88.0	<0.1	>99.9%
1, 1, 1-Trichloroethane	84.8	<0.1	>99.9%
1, 1-Dichloropropane	8.67	<0.1	>98.8%
Benzene	80.0	<0.1	>99.9%
1, 2-Dichloroethane	88.5	<0.1	>99.9%
Trichloroethene	180.2	<0.1	>99.9%
Dibromomethane	18.4	<0.1	>99.5%
1, 2-Dichloropropane	80.1	<0.1	>99.9%
cis-1, 3-Dichloropropene	79.5	<0.1	>99.9%

Toluene	78.3	<0.1	>99.9%
trans-1, 3-Dicloropropene	79.9	<0.1	>99.9%
Tetrachloroethene	85.6	<0.1	>99.9%
1, 1, 2-Trichloroethane	110.1	<0.1	>99.9%
1, 3-Dichloropropane	92.2	<0.1	>99.9%
Ethylene Dibromide (EDB)	44.8	<0.1	>99.8%
Ethylbenzene	88.2	<0.1	>99.9%
Chlorobenzene	77.2	<0.1	>99.9%
m and p-Xylene	80.3	<0.1	>99.9%
o-Xylene	40.2	<0.1	>99.8%
Styrene	150.0	<0.1	>99.9%
Isopropylbenzene	6.78	<0.1	>98.5%
n-propylbenzene	9.37	<0.1	>98.9%
Bromobenzene	12.5	<0.1	>99.2%
1, 1, 2, 2-Tetrachloroethane	81.2	<0.1	>99.9%
1, 3, 5-Trimethylbenzene	9.5	<0.1	>98.9%
2-Chlorotoluene	10.0	<0.1	>99.0%
1, 2, 3-Trichloropropane	19.2	<0.1	>99.5%
4-Chlorotoluene	10.9	<0.1	>99.1%
Tert-Butylbenzene	10.1	<0.1	>99.0%
1, 2, 4-Trimethylbenzene	9.90	<0.1	>99.0%
sec-Butylbenzene	7.88	<0.1	>98.7%
4-Isopropyltoluene	10.3	<0.1	>99.0%
1, 3-Dichlorobenzene	40.2	<0.1	>99.8%
1, 4-Dichlorobenzene	40.0	<0.1	>99.8%
n-Butylbenzene	10.2	<0.1	>99.0%
1, 2-Dichlorobenzene	80.0	<0.1	>99.9%
Dibromo-3-Chloropropane	50.2	<0.1	>99.8%
Hexachlorobutadiene	44.2	<0.1	>99.8%
1, 2, 4-Trichlorobenzene	13.6	<0.1	>99.3%
Naphthalene	160.5	<0.1	>99.9%
1, 2, 3-Trichlorobenzene	14.2	<0.1	>99.3%
Bromoacetonitrile	20.5	<0.1	>99.5%
Dibromoacetonitrile	24.6	<0.1	>99.6%
Dichloroacetonitrile	9.92	<0.1	>99.0%
Trichloroacetonitrile	15.0	<0.1	>99.3%
1,1-Dichloro-2-propanone	7.50	<0.1	>98.7%
1,1,1-Trichloro-2-propanone	14.5	<0.1	>99.3%

Trihalomethanes ($\mu\text{g/L}$) (ppb)

<u>Contaminant Tested</u>	<u>Influent Solution</u>	<u>Effluent</u>	<u>% Reduction</u>
Chloroform	86.9	0.9	99.0%
Bromodichloromethane	84.8	0.1	99.9%
Chlorodibromomethane	82.6	0.1	99.9%
Bromoform	85.2	0.1	99.9%

Total Trihalomethanes	339.5	1.2	99.6%
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Emerging Compounds (ng/L) (ppt)

<u>Contaminant Tested</u>	<u>Influent Solution</u>	<u>Effluent</u>	<u>% Reduction</u>
Caffeine	185	2	98.9%
Estradiol	23	<2	91.3%
Acetaminofen	332	2	99.4%
Ciprofloxacin	151	<2	98.7%
Atenolol	96	<2	97.9%
Carbamazepine	2926	<2	99.9%
Naproxen	240	<2	99.2%
Testosterone	156	2	98.7%
TCEP	1921	<2	99.9%
Linuron	107	<2	98.1%
Ibuprofen	83	<2	97.6%
Bisphenol A	2014	31	98.5%
Metolachlor	2520	<2	99.9%
TCPP	4380	<2	100.0%
Meprobamate	61	<2	96.7%
DEET	1797	2	99.9%
Trimethoprim	143	<2	98.6%
Nonylphenol	2600	20	99.2%

Perfluorinated Acid Compounds (µg/L) (ppb)

<u>Contaminant Tested</u>	<u>Influent Solution</u>	<u>Effluent</u>	<u>% Reduction</u>
Perfluorobutane Sulfonate	1.01	0.02	98.0%
Perfluorodecanoic acid	0.52	0.02	96.2%
Perfluorohexanoic acid	0.52	0.02	96.2%
Perfluorononanoic acid	0.52	0.02	96.2%
Perfluorooctanoic Acid	0.52	0.02	96.2%
Perfluorooctane Sulfonate	0.52	0.02	96.2%
Perfluorohexane Sulfonate	0.52	0.02	96.2%
Polytetrafluoroethylene	0.52	0.02	96.2

Semivolatile Compounds (µg/L) (ppb)

<u>Contaminant Tested</u>	<u>Influent Solution</u>	<u>Effluent</u>	<u>% Reduction</u>
N-Nitrosodimethylamine	50.2	<0.1	>99.8%
Phenol	50.1	<0.1	>99.8%
Bis(2-chloroethyl) ether	51.6	<0.1	>99.8%

2-Chlorophenol	49.0	<0.1	>99.8%
1,3-Dichlorobenzene	49.9	<0.1	>99.8%
1,4-Dichlorobenzene	50.1	<0.1	>99.8%
1,2-Dichlorobenzene	49.0	<0.1	>99.8%
2,2-Oxybis(1-chloropropane	49.2	<0.1	>99.8%
Hexachloroethane	48.4	<0.1	>99.8%
N-Nitroso-di-n-propylamine	50.2	<0.1	>99.8%
Nitrobenzene	48.9	<0.1	>99.8%
Isophrone	50.0	<0.1	>99.8%
2-Nitrophenol	48.8	<0.1	>99.8%
2,2-Dimethylphenol	48.1	<0.1	>99.8%
Bis(2-chloroethoxy)methane	47.1	<0.1	>99.8%
2,4-Dichlorophenol	48.9	<0.1	>99.8%
1,2,4-Trichlorobenzene	48.4	<0.1	>99.8%
Naphthalene	48.3	<0.1	>99.8%
Hexachlorobutadiene	49.6	<0.1	>99.8%
4-Chloro-3-methylphenol	50.6	<0.1	>99.8%
Hexachlorocyclopentadiene	50.9	<0.1	>99.8%
2,4,6-Trichlorophenol	50.1	<0.1	>99.8%
2-Chloronaphthalene	49.4	<0.1	>99.8%
Acenaphthylene	50.1	<0.1	>99.8%
Dimethylphthalate	49.2	<0.1	>99.8%
2,6-Dinitrotoluene	48.5	<0.1	>99.8%
Acenaphthene	35.9	<0.1	>99.7%
2,4-Dinitrophenol	50.1	<0.1	>99.8%
2,4-Dinitrotoluene	49.2	<0.1	>99.8%
4-Nitrotoluene	47.5	<0.1	>99.8%
Fluorene	49.8	<0.1	>99.8%
4-Chlorophenyl phenyl ether	49.8	<0.1	>99.8%
Diethylphthalate	50.1	<0.1	>99.8%
Dinitro-o-cresol	48.5	<0.1	>99.8%
Diphenylamine	73.2	<0.1	>99.8%
4-Bormophenyl phenyl ether	47.8	<0.1	>99.8%
Haxachlorobenzene	48.5	<0.1	>99.8%
Pentachlorophenol	50.3	<0.1	>99.8%
Phenantherene	49.8	<0.1	>99.8%
Anthracene	49.5	<0.1	>99.8%
Di-n-butylphthalate	50.3	<0.1	>99.8%
Fluoranthene	50.4	<0.1	>99.8%
Pyrene	49.6	<0.1	>99.8%
Benzyl butyl phthalate	50.9	<0.1	>99.8%
Benzo(a) anthracene	50.3	<0.1	>99.8%
Chrysene	50.5	<0.1	>99.8%
Bis(2-ethylhexyl) phthalate	52.6	<0.1	>99.8%
Di-n-octyl phthalate	50.1	<0.1	>99.8%
Benzo(a) pyrene	50.5	<0.1	>99.8%
Benzo(k) anthracene	50.3	<0.1	>99.8%
Indeno(1,2,3-cd) pyrene	50.8	<0.1	>99.8%

Dibenzo(a,h)anthracene	50.3	<0.1	>99.8%
Benzo(g,h,i) perylene	50.2	<0.1	>99.8%
PCB's	10.4	<0.1	>99.0%
Dalapon	270.2	<0.1	>99.96%
3,5-Dichlorobenzoic	30.9	<0.1	>99.7%
Dicamba	150.7	<0.1	>99.9%
Diclorprop	150.2	<0.1	>99.9%

Herbicides (µg/L) (ppb)

<u>Contaminant Tested</u>	<u>Influent Solution</u>	<u>Effluent</u>	<u>% Reduction</u>
2,4-D	22.1	0.1	99.5%
Pentachlorophenol	22.5	0.1	99.6%
2,4,5-T	150.2	<0.1	>99.9%
Chloramben	28.1	<0.1	>99.6%
2,4,5-TP	18.6	0.1	99.5%
2,4-DB	32.7	0.1	99.7%
Dinosep	52.1	<0.1	>99.8%
Bentazon	39.5	0.1	99.7%
Picloram	40.0	<0.1	>99.8%
DCPA	42.5	<0.1	>99.8%
Quinclorac	43.5	<0.1	>99.8%
Acifluoren	41.7	0.1	99.8%

Inorganic Non-Metals (mg/L) (ppm)

<u>Contaminant Tested</u>	<u>Influent Solution</u>	<u>Effluent</u>	<u>% Reduction</u>
Chlorine	1.8	0.02	98.9%
Nitrate	25	21	16.0%
Chloride	170	140	17.6%
Fluoride	7.8	7.8	0.0%
Sulfate	603	579	4.0%
Chloramine	3.2	0.06	98.1%

Metals (µg/L) (ppb)

<u>Contaminant Tested</u>	<u>Influent Solution</u>	<u>Effluent</u>	<u>% Reduction</u>
Aluminum	210	4	98.1%
Arsenic	49.5	21.5	56.57%
Barium	202	13	93.56%
Beryllium	6.1	<0.5	>91.8%
Cadmium	30.1	<1	96.68%
Chromium (Total)	302	3	99.01%

Copper	3009	419	86.08%
Iron	2726	14	99.49%
Lead	148	11	92.57%
Manganese	918	50	94.55%
Mercury	6.1	<0.5	>91.8%
Nickel	302	2	99.34%
Selenium	102	24	76.47%

Flow Rate: 1.0 gpm

Cycle: 20 min on: 20 min off

Total volume tested: 300 gallons.

