

## CERAMIC WATER PURIFIER CF163W

### PERFORMANCE DATA SHEET

Coldstream FTO Plus Filter (CF163W)		
Rated Capacity	Operating Temperature Range	Minimum Flow Rate
1500L	5°C – 70°C	1L/hour

KLT Filtration Ltd recommend that the Filter/Purifier is changed at least every six months. The filter should be checked for cleaning every few weeks and cleaned according to the owner's manual.

Testing performed under NSF/ANSI standards 42, 53 and P231 by IAPMO R&T Laboratory (NJ), New Jersey USA, EPA ID # NJ01298 NJ DEP ID # 03048 IAPMO ID #102, in compliance with all requirements set forth in N.J.A.C. 7:9E and N.J.A.C. 7:18. Their laboratory is in compliance with all laboratory certification, 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 and the ISO 17025.

#### BACTERIA

Microbial Contaminant	Influent Challenge	Reduction Requirement (%)	Reduction (%) at 3000L
<i>Klebsiella terrigena</i>	3.28646x10 <sup>9</sup> CFU/L	99.9999	99.9999
Microspheres	1.542x10 <sup>6</sup> oocysts/L	99.9	99.9

The purifier has been tested using a Coldstream System to NSF/ANSI standards 42, 53 and P231 for the reduction of the substances listed.

The concentration reduction of substances in the water was reduced to less than or equal to the limit for water leaving the system as specified in NSF/ANSI standards 42, 53 and P231.

#### VIRUS

Viral Contaminant	Influent Challenge	Reduction (%) at 3000L
Rotavirus spp.	2.4642x10 <sup>7</sup> PFU/L	>99.99

#### HEAVY METALS

Metal Contaminant	Influent Challenge (µg/L)	Allowable Concentration (µg/L)	3000L	
			Effluent Concentration (µg/L)	Reduction (%)
Aluminium	100	9000	2.2	97.8
Antimony	100	6	<1	>99
Arsenic (Total)	48.2	20	4.8	88.35
Barium	9875	2000	392	96.03
Beryllium	6	4	<0.5	>91.67
Boron	100	-	16.1	83.9
Cadmium	31.2	5	1.6	94.87
Chromium	298	1000	17.7	94.06
Copper	2810	1300	64.3	97.71
Iron	3865	-	207	94.64
Lead	154	5	<1	>99.35
Manganese	1335	300	167.4	87.46
Mercury	6	2	1.1	81.67
Nickel	100	100	2.7	97.2
Selenium	167	50	114.6	31.38
Silver	100	100	2.6	97.4
Thallium	6	2	<0.5	>91.67
Zinc	100	3000	2.6	97.4



# CHEMICALS

Inorganic Contaminant	Influent Challenge (µg/L)	Allowable Concentration (µg/L)	15L		500L		3000L	
			Effluent Concentration (µg/L)	Reduction (%)	Effluent Concentration (µg/L)	Reduction (%)	Effluent Concentration (µg/L)	Reduction (%)
Chlorine (Free)	2000	4000	<0.1	>99.9	100	95	390	80.5
Chloramine	3200	4000	<0.1	>99.9	<100	>96.88	400	93.75
Fluoride	8800	1500	0.2	97.5	900	89.77	7300	17.05
Nitrate	29700	10000	0.5	98.2	10100	65.99	12000	59.6
Nitrite	2900	1000	<0.1	>99.9	760	73.79	1800	37.93
Sulphate	820000	-	-	-	400000	51.22	790000	3.66

Volatile Organic Contaminant	Influent Challenge (µg/L)	Allowable Concentration (µg/L)	Reduction Requirement (%)	3000L	
				Effluent Concentration (µg/L)	Reduction (%)
Vinylchloride	20	2	-	<0.1	>99.5
Chloroethane	21.3	0.4	-	<0.1	>99.53
Trichlorofluoromethane	15.84	2000	-	<0.1	>99.37
1,1-dichloroethene	78.87	7	>99	<0.1	>99.87
Methylene chloride	29.76	5	-	<0.1	>99.66
trans-1,2-dichloroethene	11.95	100	>99	<0.1	>99.16
MTBE	61.38	-	-	18.7	69.53
1,1-dichloroethane	10.02	3	-	<0.1	>99
cis-1,2-dichloroethene	10.08	70	>99	<0.1	>99.01
2,2-dichloropropane	54.42	-	-	<0.1	>99.82
Bromochloromethane	56.29	90	-	<0.1	>99.82
Chloroform	410.07	80	-	49.1	88.03
1,1,1-trichloroethane	65.95	200	95	<0.1	>99.85
1,1-dichloropropene	24.78	3	-	<0.1	>99.6
Benzene	15	5	>99	<0.1	>99.33
1,2-dichloropropane	17.04	-	>99	<0.1	>99.41
Bromodichloromethane	28.52	80	-	3.9	86.33
cis-1,3-dichloropropene	96.65	4	-	<0.1	>99.9
Toluene	85.73	1000	>99	<0.1	>99.88
trans-1,3-dichloropropene	96.65	4	-	<0.1	>99.9
Tetrachloroethene	52.79	5	>99	<0.1	>99.81
1,1,2-trichloroethane	69.43	5	>99	<0.1	>99.86
Chlorodibromomethane	88.98	80	-	<0.1	>99.89
1,3-dichloropropane	10.94	-	-	<0.1	>99.09
Ethylbenzene	38.96	700	>99	<0.1	>99.74
Chlorobenzene	84.41	100	>99	<0.1	>99.88
o-xylene	42.99	10000	>99	<0.1	>99.77
Styrene	32.37	100	>99	<0.1	>99.69
Bromoform	45.84	80	-	2.5	94.55
Isopropylbenzene	16.08	700	-	<0.1	>99.38
n-propylbenzene	12.8	200	-	<0.1	>99.22
Bromobenzene	68.57	3	-	<0.1	>99.85
1,1,2,2-tetrachloroethane	78.14	2	>99	<0.1	>99.87
1,3,5-trimethylbenzene	25.18	200	-	<0.1	>99.6
2-chlorotoluene	20.31	100	-	<0.1	>99.51
4-chlorotoluene	20.31	100	-	<0.1	>99.51
tert-butylbenzene	26.23	200	-	<0.1	>99.62
1,2,4-trimethylbenzene	25.18	200	-	<0.1	>99.6
sec-butylbenzene	13.25	3	-	<0.1	>99.25
1,3-dichlorobenzene	47.89	600	-	<0.1	>99.79



## CHEMICALS CONT.

Volatile Organic Contaminant	Influent Challenge (µg/L)	Allowable Concentration (µg/L)	Reduction Requirement (%)	3000L	
				Effluent Concentration (µg/L)	Reduction (%)
1,4-dichlorobenzene	24.12	75	>98	<0.1	>99.59
n-butylbenzene	11.36	200	-	<0.1	>99.12
1,2-dichlorobenzene	11.36	-	>99	<0.1	>99.12
Hexachlorobutadiene	43.32	-	>98	<0.1	>99.77
1,2,4-trichlorobenzene	56.4	70	>99	<0.1	>99.82
Naphthalene	14.67	100	-	<0.1	>99.32
1,2,3-trichlorobenzene	90.05	3	-	<0.1	>99.89
m & p-xylene	47.35	10000	>99	<0.1	>99.79
Total trihalomethanes	573.41	80	95	55.5	90.32

Semi-Volatile Organic Contaminant	Influent Challenge (µg/L)	Allowable Concentration (µg/L)	Reduction Requirement (%)	3000L	
				Effluent Concentration (µg/L)	Reduction (%)
Acenaphthylene	50.45	3	-	<0.1	>99.8
Anthracene	46	3	-	<0.1	>99.78
Benzo[a]anthracene	73.54	0.2	-	<0.1	>99.86
Benzo[b]fluoranthene	62.25	0.2	-	<0.1	>99.84
Benzo[k]fluoranthene	50.97	-	-	<0.1	>99.8
Benzo[a]pyrene	62.25	0.2	-	<0.1	>99.84
Benzo[g,h,i]perylene	50.7	-	-	<0.1	>99.8
Butylbenzylphthalate	50.9	1000	-	<0.1	>99.8
Chrysene	61.55	3	-	<0.1	>99.84
Cycloate	123.76	-	-	<0.1	>99.92
Dibenzo[a,h]anthracene	50.5	-	-	<0.1	>99.8
Di-n-butylphthalate	50.97	700	-	<0.1	>99.8
Diethylphthalate	90.02	6000	-	<0.1	>99.89
Di(2-ethylhexyl)adipate	20.21	-	-	<0.1	>99.51
Di(2-ethylhexyl)phthalate	49.18	6	-	<0.1	>99.8
Dimethylphthalate	82.06	50	-	<0.1	>99.88
EPTC	19.46	-	-	<0.1	>99.49
Fluorene	33.95	300	-	<0.1	>99.71
Hexachlorobenzene	8.7	-	-	<0.1	>98.85
Isophorone	52.07	400	-	<0.1	>99.81
Norflurazon	110.53	-	-	<0.1	>99.91
Pebulate	19.46	-	-	<0.1	>99.49
Phenanthrene	52.79	3	-	<0.1	>99.81
Pronamide (Propyzamide)	91.42	-	-	<0.1	>99.9
Propazine	103.22	-	-	<0.1	>99.9
Triademefon	63.37	-	-	<0.1	>99.84
Vernolate	19.46	-	-	<0.1	>99.49
N-nitrosodimethylamine	50.35	0.007	-	<0.1	>99.8
Phenol	50.25	2000	-	<0.1	>99.8
Bis(2-chloroethyl)ether	50.45	0.3	-	<0.1	>99.8
1,3-dichlorobenzene	50.65	-	-	<0.1	>99.8
1,4-dichlorobenzene	51.45	75	>98	<0.1	>99.81
1,2-dichlorobenzene	51.75	600	>99	<0.1	>99.81
2,2-окыbis(1-сhloropropane)	51.68	-	-	<0.1	>99.81
Hexachloroethane	52.45	9	-	<0.1	>99.81
N-nitroso-di-n-propylamine	51.25	0.05	-	<0.1	>99.8



## CHEMICALS CONT.

Semi-Volatile Organic Contaminant	Influent Challenge (µg/L)	Allowable Concentration (µg/L)	Reduction Requirement (%)	3000L	
				Effluent Concentration (µg/L)	Reduction (%)
Nitrobenzene	50.25	10	-	<0.1	>99.8
2-nitrophenol	50.36	3	-	<0.1	>99.8
2,2-dimethylphenol	50.74	-	-	<0.1	>99.8
Bis(2-chloroethoxy)methane	50.85	-	-	<0.1	>99.8
2,4-dichlorophenol	53.45	50	-	<0.1	>99.81
1,2,4-trichlorobenzene	50.25	70	-	<0.1	>99.8
Naphthalene	19.46	-	-	<0.1	>99.49
Hexachlorobutadiene	54.25	-	-	<0.1	>99.82
4-chloro-3-methylphenol	51.25	700	-	<0.1	>99.8
2,4,6-trichlorophenol	54.25	5	-	<0.1	>99.82
2-chloronaphthalene	52.65	600	-	<0.1	>99.81
2,6-dinitrotoluene	76.12	0.5	-	<0.1	>99.87
Acenaphthene	50.65	0.5	-	<0.1	>99.8
2,4-dinitrophenol	90.35	-	-	<0.1	>99.89
2,4-dinitrotoluene	96.66	0.5	-	<0.1	>99.9
4-nitrotoluene	95.25	0.5	-	<0.1	>99.9
4-chlorophenyl phenyl ether	52.45	3	-	<0.1	>99.81
Dinitro-o-cresol	48.75	-	-	<0.1	>99.79
Diphenylamine	49.85	200	-	<0.1	>99.8
4-bromophenyl phenyl ether	50.47	-	-	<0.1	>99.8
Hexachlorobenzene	52.35	1	-	<0.1	>99.81
Fluoranthene	53.02	3	-	<0.1	>99.81
Pyrene	51.82	3	-	<0.1	>99.81
Di-n-octyl phthalate	49.18	-	-	<0.1	>99.8
Indeno(1,2,3-cd)pyrene	50.45	-	-	<0.1	>99.8



## PESTICIDES & HERBICIDES

Pesticide/Herbicide Contaminant	Influent Challenge (µg/L)	Allowable Concentration (µg/L)	Reduction Requirement (%)	3000L	
				Effluent Concentration (µg/L)	Reduction (%)
Alachlor	67.69	2	>98	<0.1	>99.85
Aldrin	40.95	0.7	-	<0.1	>97.56
Alpha-BHC	225.11	-	-	<0.1	>99.96
Ametryn	66.05	-	-	<0.1	>99.85
Atraton	48.03	-	-	<0.1	>99.79
Beta-BHC	100.93	-	-	<0.1	>99.9
Bromacil	67.24	-	-	<0.1	>99.85
Cyanazine	50.18	-	-	<0.1	>99.8
Delta-BHC	104.83	-	-	<0.1	>99.9
Dieldrin	277.74	0.7	-	<0.1	>99.96
Diphenamid	39.53	-	-	<0.1	>99.75
Endosulfan sulfate	57.88	-	-	<0.1	>99.83
Endrin	84.18	2	>99	<0.1	>99.88
Endrin aldehyde	84.18	-	-	<0.1	>99.88
Endrin ketone	84.18	-	-	<0.1	>99.88
Endosulfan I	58.87	-	-	<0.1	>99.83
Endosulfan II	33.18	-	-	<0.1	>99.7
Fenarimol	89.06	-	-	<0.1	>99.89
Gamma-BHC (Lindane)	98.83	0.2	>99	<0.1	>99.9
Heptachlor	58.28	0.4	>99	<0.1	>99.83



## PESTICIDES & HERBICIDES CONT.

Pesticide/Herbicide Contaminant	Influent Challenge (µg/L)	Allowable Concentration (µg/L)	Reduction Requirement (%)	3000L	
				Effluent Concentration (µg/L)	Reduction (%)
Heptachlor epoxide	57.43	0.2	>98	<0.1	>99.83
Methoxychlor	54.18	40	>99	<0.1	>99.82
Molinate	42.1	-	-	<0.1	>99.76
Propachlor	53.47	-	-	<0.1	>99.81
Dalapon	50.3	200	-	<0.01	>99.98
Dicamba	50.3	120	-	<0.01	>99.98
3,5-dichlorobenzoic	51.23	10	-	<0.01	>99.98
Dinoseb	50.64	7	>99	0.03	99.94
Dichlorprop	51.45	-	-	<0.01	>99.98
2,4-D	50.2	70	>98	<0.01	>99.98
Pentachlorophenol	37.87	1	>99	<0.01	>99.97
2,4,5-T	46.34	-	-	0.18	99.61
2,4,5-TP (Silvex)	51.52	50	>99	0.15	99.71
2,4-DB	51.93	-	-	0.33	99.36
Bentazon	50.18	-	-	<0.01	>99.98
Dacthal (DCPA)	46.19	-	-	0.02	99.96
Quinclorac	52.15	-	-	0.02	99.96
Acifluoreen	51.85	-	-	<0.01	>99.98
Metribuzin	14.76	80	-	<0.1	>99.32
Trans-chlordane (Nonachlor)	79.05	2	-	<0.1	>99.87
Butachlor	65.44	-	-	<0.1	>99.85
Cis-chlordane	72.29	2	-	<0.1	>99.86
p,p-DDD (4,4-DDD)	3.4	1	-	<0.1	>97.06
p,p-DDT (4,4-DDT)	91.35	1	-	<0.1	>99.89
Hexachlorocyclopentadiene	35.33	50	-	<0.1	>99.72
Chloramben	49.58	-	-	<0.01	>99.98
Picloram	49.7	190	-	0.01	99.98
BHT	18.64	-	-	<0.1	>99.46
Terbacil	52.64	-	-	<0.1	>99.81
Prometryn	39.73	-	-	<0.1	>99.75
Vinclozolin	160.25	-	-	<0.1	>99.94
Oxyfluorfen	67.34	-	-	<0.1	>99.85
2,4-dichlorophenyl 4-nitrophenyl ether (Nitrofen)	59.82	-	-	<0.1	>99.83
Simetryn	1.42	-	-	<0.1	>92.96



## PHARMACEUTICALS

Pharmaceutical Contaminant	Influent Challenge (µg/L)	3000L	
		Effluent Concentration (µg/L)	Reduction (%)
Bisphenol A	2296	<0.01	>99.99
Ibuprofen	418	3.2	99.23
Trimethoprim	133	<0.01	>99.99
Naproxen	182	<0.01	>99.99
Acetaminophen	273	<0.01	>99.99
Ciprofloxacin	1041	<0.01	>99.99
Sulfamethoxazole	186	<0.01	>99.99
17-beta-Estradiol (Estradiol)	193	<0.01	>99.99
Caffeine	877	2.7	99.69
Fluoxetine	1.83	<0.01	>99.45
Gemfibrozil	205	<0.01	>99.99
Triclosan	218	<0.01	>99.99
Estrone	136	<0.01	>99.99
Diclofenac Sodium	206	<0.01	>99.99
Primidone	187	<0.01	>99.99
Carbamazepine	1842	<0.01	>99.99
Testosterone	153	<0.01	>99.99
Progesterone	211	<0.01	>99.99
4-tert-Octylphenol	207	<0.01	>99.99
17-alpha-Ethynylestradiol	222	<0.01	>99.99
4-para-Nonylphenol	236	<0.01	>99.99
Phenytoin	191	<0.01	>99.99
Nonylphenol	1497	<0.01	>99.99
DEET	1541	<0.01	>99.99
Metolachlor	1487	<0.01	>99.99
TCEP	4899	<0.01	>99.99
Linuron	156	<0.01	>99.99
Meprobamate	449	12.6	97.19
TCPP	5126	<0.01	>99.99
Atenolol	209	<0.01	>99.99

## HALOACETIC ACID (HAA5) CONTAMINANTS

HAA5 Contaminant	Influent Challenge (µg/L)	3000L	
		Effluent Concentration (µg/L)	Reduction (%)
Monochloroacetic Acid	36.4-103.9	1.1	97.9
Dichloroacetic Acid	28.2-55.6	<0.1	>99.8
Trichloroacetic Acid	18.5-50.5	<0.1	>99.8
Monobromoacetic Acid	23.7-55.6	<0.1	>99.8
Bromochloroacetic Acid	10.9-101.6	0.3	99.4



## PARTICLES

99.9% removal of particle reduction class 1, including microplastics.

## TESTING INFORMATION



Purifier is only to be used with cold water.



Purifier usage must comply with all state and local laws.



Testing was performed under standard laboratory conditions, actual performance may vary.



Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.



See owner's manual for general installation conditions and needs, plus manufacturer's limited warranty.



This water purifier is not intended to convert waste water or raw sewage into drinking water.

- All contaminants reduced by this system are listed.
- Not all contaminants listed may be present in your water.

### *IAPMO R&T Laboratory (NJ)*

Independently Tested and Certified  
by IAPMO R&T Laboratory (NJ)

Coldstream® Filters are independently tested and certified to the following:  
NSF/ANSI 42 Aesthetic Effects  
NSF/ANSI 53 Health Effects  
NSF - P231 Microbiological Water Purifiers  
See KLT Filtration Ltd lab reports for more detail

**GOLD SEAL CERTIFIED**



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