MADE IN THE UNITED KINGDOM

COLDSTREAM®

SAFEGUARDING YOUR DRINKING WATER

CTO PLUS

CERAMIC WATER PURIFIER

CF102W

PERFORMANCE DATA SHEET

Coldstream CTO Plus Filter (CF102W)			
Operating Pressure Range	**Rated Capacity**	**Operating Temperature Range**	**Rated Flow**
10psi – 125psi	2840L	5°C – 70°C	2.5L/min
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.			

BACTERIA

Microbial Contaminant	Influent Challenge	Reduction Requirement (%)	Reduction (%) at 3000L	Reduction (%) at 4500L
Klebsiella terrigena	1.228128×10^8 CFU/L	99.9999	>99.9999	99.9999
Cryptosporidium spp.	1.105220×10^6 oocysts/L	99.9	>99.9	99.9

HEAVY METALS

Metal Contaminant	Influent Challenge (µg/L)	Allowable Concentration (µg/L)	2840L	
			Effluent Concentration (µg/L)	Reduction (%)
Antimony	6.0	6	<0.5	>99.9
Arsenic	302.0	20	<0.5	>99.9
Beryllium	48.0	4	<0.5	>99.9
Bismuth	50.1	100	<0.5	>99.9
Chromium	298.0	10	<0.5	>99.9
Copper	3020.0	1300	139	95.4
Iron	3030.0	-	85	97.2
Lead	148.0	10	10	93.2
Manganese	1020.0	300	42	96.1
Mercury	6.0	2	<0.5	>99.9
Selenium	106.0	50	<0.5	>99.9

Arsenic reduction: This filter has been tested for the treatment of water containing pentavalent arsenic (also known as As(V), As(5+)) or arsenate (also known as As(3+)) at concentrations of 0.3 mg/L. This system reduces pentavalent arsenic, but may not reduce other forms of arsenic. This system is to be used on water supplies containing detectable free chlorine or on water supplies that have been demonstrated to contain only a pentavalent arsenic. Treatment with chloramine (combined chlorine) is not sufficient to ensure complete conversion of trivalent arsenic to pentavalent arsenic.

Testing performed under NSF/ANSI standards 42, 53 and P231 by Envirotek Inc, 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.

The filter 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.

CHEMICALS

Inorganic Contaminant	Influent Challenge (µg/L)	Allowable Concentration (µg/L)	2840L	
			Effluent Concentration (µg/L)	Reduction (%)
Chlorine (free)	2000	4000	<100	>99.9
Chloramine	3000	-	<100	>99.9
Chloride	800000	-	100000	75.0
Nitrate	27000	10000	<100	>99.9
Nitrite	2900	1000	<100	>99.9

Volatile Organic Contaminant	Influent Challenge (µg/L)	Allowable Concentration (µg/L)	Reduction Requirement (%)	2840L	
				Effluent Concentration (µg/L)	Reduction (%)
Dichlorodifluoromethane	79.2	-	-	<0.1	>99.9
Chloromethane	80.1	30	-	<0.1	>99.9
Vinylchloride	79.5	2	-	<0.1	>99.9
Bromomethane	81.1	10	-	<0.1	>99.9
Chloroethane	81	-	-	<0.1	>99.9
Trichlorofluoromethane	80.5	2000	-	<0.1	>99.9
1,1-dichloroethene	80.2	7	>99	<0.1	>99.9
Methylene chloride	80.1	5	-	<0.1	>99.9
trans-1,2-dichloroethene	80.1	100	>99	<0.1	>99.9
MTBE	80.3	-	-	<0.1	>99.9
1,1-dichloroethane	80	-	-	<0.1	>99.9
cis-1,2-dichloroethene	169.5	70	>99	<0.1	>99.9
2,2-dichloropropane	80.5	-	-	<0.1	>99.9
Bromochloromethane	80	90	-	<0.1	>99.9
Chloroform	81.2	20	-	<0.1	>99.9
Carbon tetrachloride	81	5	98	<0.1	>99.9
1,1,1-trichloroethane	81.2	200	95	<0.1	>99.9
1,1-dichloropropene	80.5	-	-	<0.1	>99.9
Benzene	80.6	5	>99	<0.1	>99.9
1,2-dichloroethane	80.4	5	>95	<0.1	>99.9
Trichloroethene	178.5	5	>99	<0.1	>99.9
Dibromomethane	80.8	-	-	<0.1	>99.9
1,2-dichloropropane	80.2	-	>99	<0.1	>99.9
Bromodichloromethane	80.5	20	-	<0.1	>99.9
cis-1,3-dichloropropene	49.1	2	-	<0.1	>99.9
Toluene	80.4	1000	>99	<0.1	>99.9
trans-1,3-dichloropropene	80	2	-	<0.1	>99.9
Tetrachloroethene	80.1	5	>99	<0.1	>99.9
1,1,2-trichloroethane	149.2	5	>99	<0.1	>99.9
Chlorodibromomethane	80.2	20	-	<0.1	>99.9
1,3-dichloropropane	80.5	-	-	<0.1	>99.9
Ethylbenzene	81.2	700	>99	<0.1	>99.9
Chlorobenzene	80.6	100	>99	<0.1	>99.9
1,1,1,2-tetrachloroethane	80.1	2	>99	<0.1	>99.9
o-xylene	81.1	-	>99	<0.1	>99.9
Styrene	81	100	>99	<0.1	>99.9
Bromoform	80.9	20	-	<0.1	>99.9
Isopropylbenzene	80.2	-	-	<0.1	>99.9
n-propylbenzene	80.3	-	-	<0.1	>99.9

CHEMICALS CONT.

Volatile Organic Contaminant	Influent Challenge (µg/L)	Allowable Concentration (µg/L)	Reduction Requirement (%)	2840L	
				Effluent Concentration (µg/L)	Reduction (%)
1,1,2,2-tetrachloroethane	81.1	2	>99	<0.1	>99.9
1,3,5-trimethylbenzene	80.9	3	-	<0.1	>99.9
2-chlorotoluene	80.5	100	-	<0.1	>99.9
1,2,3-trichloropropane	80.1	40	-	<0.1	>99.9
4-chlorotoluene	80.3	3	-	<0.1	>99.9
tert-butylbenzene	80.1	-	-	<0.1	>99.9
1,2,4-trimethylbenzene	79.4	-	-	<0.1	>99.9
sec-butylbenzene	79.1	3	-	<0.1	>99.9
4-isopropyltoluene	80.5	3	-	<0.1	>99.9
1,3-dichlorobenzene	80.4	600	-	<0.1	>99.9
1,4-dichlorobenzene	39.1	75	>98	<0.1	>99.9
n-butylbenzene	80.5	3	-	<0.1	>99.9
1,2-dichlorobenzene	80.3	-	>99	<0.1	>99.9
Hexachlorobutadiene	44.5	-	>98	<0.1	>99.9
1,2,4-trichlorobenzene	159.8	70	>99	<0.1	>99.9
Naphthalene	80.2	400	-	<0.1	>99.9
1,2,3-trichlorobenzene	80.5	3	-	<0.1	>99.9

PESTICIDES & HERBICIDES

Pesticide/Herbicide Contaminant	Influent Challenge (µg/L)	Allowable Concentration (µg/L)	Reduction Requirement (%)	2840L	
				Effluent Concentration (µg/L)	Reduction (%)
Alachlor	39.1	2	>98	<0.1	>99.9
Aldrin	51.5	-	-	<0.1	>99.9
Alpha-BHC	49.1	-	-	<0.1	>99.9
Atrazine	10.2	3	>97	<0.1	>99.9
Beta-BHC	50.5	-	-	<0.1	>99.9
Bromacil	50.5	-	-	<0.1	>99.9
Carbofuran	80.2	40	>99	<0.1	>99.9
Chlorneb	51	-	-	<0.1	>99.9
Chlorothalonil	50.2	-	-	<0.1	>99.9
Chlorprophane	49.9	-	-	<0.1	>99.9
Chlorpyrifos	50.8	-	-	<0.1	>99.9
Cyanizine	51.1	-	-	<0.1	>99.9
Delta-BHC	50.9	-	-	<0.1	>99.9
Dichlorvos	51.1	-	-	<0.1	>99.9
Dieldrin	52.2	-	-	<0.1	>99.9
Diphenamid	51.2	-	-	<0.1	>99.9
Disulfoton	50.8	-	-	<0.1	>99.9
Endosulfan sulfate	51	-	-	<0.1	>99.9
Endrin	6.1	2	>99	<0.1	>99.9
Endrin aldehyde	49.5	-	-	<0.1	>99.9
Endrin ketone	50.2	-	-	<0.1	>99.9
Endosulfan I	50.6	-	-	<0.1	>99.9
Endosulfan II	52.3	-	-	<0.1	>99.9
Ethoprop	51.4	-	-	<0.1	>99.9
Femaniphos	50.8	-	-	<0.1	>99.9
Fenarimol	50.6	-	-	<0.1	>99.9
Fluoridone	50.8	-	-	<0.1	>99.9

PESTICIDES & HERBICIDES CONT.

Pesticide/Herbicide Contaminant	Influent Challenge (µg/L)	Allowable Concentration (µg/L)	Reduction Requirement (%)	2840L	
				Effluent Concentration (µg/L)	Reduction (%)
Gamma-BHC (Lindane)	2	0.2	>99	<0.1	>99.9
Heptachlor	80.2	0.4	>99	<0.1	>99.9
Heptachlor epoxide	4.1	0.2	>98	<0.1	>99.9
Methoxychlor	124	40	>99	<0.1	>99.9
Molinate	50.1	-	-	<0.1	>99.9
Propachlor	51.2	-	-	<0.1	>99.8
Simazine	12.1	4	>97	<0.1	>99.9
Toxaphene	15.4	70	-	<0.1	>99.9
Dicamba	150	-	-	<0.1	>99.9
Dinoseb	20.5	7	>99	<0.1	>99.9
Dichlorprop	152	-	-	<0.1	>99.9
2,4-D	201	70	>98	<0.1	>99.9
Pentachlorophenol	10.2	1	>99	<0.1	>99.6
2,4,5-T	152	-	-	<0.1	>99.9
2,4,5-TP (Silvex)	151	50	>99	<0.1	>99.9
2,4-DB	150	-	-	<0.1	>99.9
Bentazon	148	-	-	<0.1	>99.9
DCPA	148	-	-	<0.1	>99.9
Quinclorac	151	-	-	<0.1	>99.9
Acifluoren	150	-	-	<0.1	>99.9
p,p-DDE	50.5	-	-	<0.1	>99.9
p,p-DDD	50.2	-	-	<0.1	>99.9
p,p-DDT	50.6	-	-	<0.1	>99.9
Picloram	151	-	-	<0.1	>99.9

PARTICLES

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

TESTING INFORMATION

Filter is only to be used with cold water.

Filter 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 filter is not intended to convert waste water or raw sewage into drinking water.

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

Envirotek™
Independently Tested and Certified by Envirotek Inc

Coldstream® Filters are independently tested and certified to the following:
NSF/ANSI 42 Aesthetic Effects
NSF/ANSI 53 Health Effects
See KLT Filtration Ltd lab reports for more detail
GOLD SEAL CERTIFIED

MADE IN THE UNITED KINGDOM
COLDSTREAM®
SAFEGUARDING YOUR DRINKING WATER

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