

Performance Data Sheet

For United States Standards Page 1 of 4

SEAGULL®IV X-1, X-2 Designer Series and X-6 Drinking Water Purification Systems

General Ecology presents data from testing specifically selected to demonstrate product effectiveness in removing those contaminants most frequently encountered in water supplies. Please note that all General Ecology, Incorporated's test results represent performance using actual contaminants, not substitute surrogates which some companies submit.

This Performance Data Sheet shows some of the removal capabilities of the SEAGULL®IV products. It is recommended that before purchasing a water treatment unit you have your water supply tested to determine your actual water treatment needs.

Product Brand Names

SEAGULL®IV X-1

Drinking Water Purification System, Configuration B, F, D, P, FP

SEAGULL®IV X-2

Designer Series Drinking Water Purification System, Configuration B, KB, KF

SEAGULL®IV X-6

Drinking Water Purification System

Manufacturer

All SEAGULL®IV Drinking Water Purification Systems are manufactured in the USA by:

General Ecology, Inc. 151 Sheree Boulevard Exton, PA 19341-1292

Will - Nove Desert	<u>X-1</u>	<u>X-2</u>	<u>X-6</u>
Housing	Stainless Steel	Stainless Steel	Stainless Steel
Cartridge	RS-1SG	RS-2SG	RS-6SG
Particle Retention	0.1 micron nominal	0.1 micron nominal	0.1 micron nominal
	(0.4 micron absolute)	(0.4 micron absolute)	(0.4 micron absolute)
Pressure (psig) min/max	30/125	30/125	30/100
Flow Rate (gpm @ 30 psi)	1	2	6
Average Capacity (gals)	1,000	2,000	6,000
Temp (F) min/max	35/145	35/145	35/145
pH min/max	5/9	5/9	5/9

- · No electricity is required.
- · Do not freeze unit.
- Flow rate and capacity will depend on operating conditions and source water characteristics.
- The cartridge should be replaced annually, when the flow rate drops to an inconvenient level or if tastes and odors should become evident.

Aesthetic Water Quality Improvement

SEAGULL®IV Drinking Water Purification Systems also remove the following, which some individuals may find offensive in drinking water:

- Chlorine
- · Foul Tastes
- Color
- · Foul Odors
- Turbidity

Test Conditions

All tests were conducted under standard operating conditions as previously stated for the rated capacity of the cartridge.

Performance Notice

These data are based on documented results from specific testing and generally are regarded as indicative of effectiveness to be expected, but are not specific claims of performance. Performance may vary due to water characteristics and system operating conditions.

Test Data

Testing was conducted for the full rated capacity using the actual contaminant listed. No Surrogates were used.

Contaminant Filtered	Influent	Effluent	Detection Level	MCL*
Organic Chemicals				
1,1,2-Trichloroethane	20 ppb	ND	2 ppb	5 ppb*
1,2-Dibromomethane (EDB)	1.9 ppb	ND	.2 ppb	5 ppb
1,4-Dichlorobenzene	73 ppb	ND	NSF Standard 53	5 ppb ⁺⁺
2,4,5-TP (Silvex)	30.6 ppb	ND	.05 ppb	10 ppb
2,4-D	338 ppb	ND	l ppb	70 ppb
Aldicarb (Temik)	228 ppb	ND	I ppb	7 ppb ⁺⁺
Carbon Tetrachloride	20 ppb	0.6 ppb		5 ppb
Chlordane	50 ppb	ND	I ppb	20 ppb
Chlorine Residual	500 ppb	ND	50 ppb	2.5 ppm (not an MCL)
Methoxychlor	240 ppb	ND	.05 ppb	40 ppb **
MTBE***	15.2 ppb	ND	.002 ppm	PAR ALL PROPERTY
P-chlorobenzene	10 ppb	ND	.l ppb	5 ppb proposed *
PCB	0.05 ppb	ND	.01ppb	and the same of the same of the
Tetrachlorethylene (PCE)	73 ppb	ND	NSF Standard 53	5 ppb
Trichloroethylene (TCE)	328 ppb	ND	NSF Standard 53	5 ppb
Trihalomethane Total	92 ppb	ND	Ippb	100 ppb**

ND - None Detected

Test Data

Testing was conducted for the actual contaminant listed. No Surrogates were used.

est Data	Contaminant Filtered	Influent	Effluent	Detection Level	MCL*
sting was nducted • the	Microbiological	(colonies/ 100 ml)	(colonies/ 100 ml)	(colonies/ 100 ml)	(colonies/ 100 ml)
tual	Campylobacter jejuni	$1.6-3.0 \times 10^7$	ND	10	:0 (<u>-</u> 1555)
ntaminant ted. No	Cryptosporidium	$1^{-3} \times 10^{5}$	ND	(men/m)	m (A) gras
rrogates	Escherichia coli	107	ND		0/100 ml
ere used.	Escherichia coli 0157:H7	107	ND	10	0/100 ml
	Fecal Coliform	103	ND	I	0/100 ml
	Giardia lamblia	1.13 × 10 ⁵⁺⁺⁺	ND	Water Cha	
	Listeria monocytogenes	$2.2-2.8 \times 10^7$	ND	10	I AL-FILLS
Dini (mm same	Poliovirus and Rotavirus	$6.3 \times 10^5 - 2.8 \times 10^6$	ND-320 pfu	.ll pfu	nistre i <u>n</u> drint
	Pseudomonas aerigompsa§	103	ND	Salve I movi	
	Salmonella typhi§	105	ND	lauoisi	0/100 ml
	Yersinia enterocolitica	2.0-2.8 × 10 ⁵	ND	10	DSUS WESTER COST

ND - None Detected

Test Data

Testing was conducted for the actual contaminant listed. No Surrogates were used.

Contaminant Filtered	Influent	Effluent	Detection Level	MCL ⁺
Metals				
Iron [±]	.8 mg/l	.06 mg/l	Station or	WattaneW
Lead [¥]	90 ppb	ND	5 ppb	15 ppb
Aesthetics	Original Well Water	Tested Filtered Wat	er	Mark Bull Mark
Color	20	0		ned control
Hardness	72 mg/L	66 mg/l	aimi yelbanawa d	un mar all portion de
Odor	abnormal	normal	Hoe Texto 8	aleman a
Taste	abnormal	normal	ira bos-ellisup si	We stand-beland a
Turbidity	nine 2 salama la mi	0	A VARIAL ADMENE	ND - None Detected

Test Data

Leaching tests comply with NSF Standard 53

Contaminant Leached	Testing Protocol	Result	Detection Level
I,I,I-Trichloroethane	NSF Standard 53	ND	l ppb
1,1 Dichloroethylene	NSF Standard 53	ND	l ppb
1,2-Dichloroethylene	NSF Standard 53	ND	l ppb
Benzene	NSF Standard 53	ND	l ppb
Bromodichloromethane	NSF Standard 53	ND	2 ppb
Bromoform	NSF Standard 53	ND	4 ppb
Cadmium	NSF Standard 53	ND	2 ppb
Carbontetrachloride	NSF Standard 53	ND	l ppb
Chloroform	NSF Standard 53	ND	2 ppb
Chromium	NSF Standard 53	ND	4 ppb
Dibromochloromethane	NSF Standard 53	ND	4 ppb
Lead	NSF Standard 53	ND	I ppb
Mercury	NSF Standard 53	ND	.2 ppb
Methylene Chloride	NSF Standard 53	ND	I ppb
Phenols	NSF Standard 53	ND	10 ppb
Tetrachloroethylene	NSF Standard 53	ND	I ppb
TOC	NSF Standard 53	ND	500 ppb
Trichloroethylene	NSF Standard 53	ND	l ppb
Trihalomethane Total	NSF Standard 53	ND	2 ppb
Vinyl Chloride	NSF Standard 53	ND	l ppb ND - None Detec

- Maximum Contaminant Level of Federal Standards shown unless a more rigorous standard is indicated.
- New York Maximum Contaminant Level is more rigorous than Federal level.
- Total per 500 gallons.
- Sampled at less than rated capacity.
- Iron will tend to shorten cartridge life.
- Cartridge used in the test was 1 year 2 months old. Journal AWWA, February 1992.
- Water Technology, August 1991.
- *** Challenged at middle and end of rated cartridge life.

Note: SEAGULL* IV systems do not remove beneficial dissolved salts and essential minerals. Various Federal, State and Local regulations may become known or change and affect distribution and presentation of performance claims. All health claims not in compliance with local or state laws are hereby withdrawn.