

Model	Replacement	Recovery Rating	Operating Temp. Range	Operating Pressure Range	Efficiency rating	Daily Production (DPR)	Capacity
AQ-SFRO	AQ-SFRO-S1S3, AQ-SFRO-S2, and AQ-SFRO-REMIN	42.8%	40-100° F 4.44-37° C	40-100 psi 275-689 kPa	27.4%	25.7 gpd 97.3 liters	365 gal 1382 liters

Manufactured by: Aquasana, Inc. 4343 Hamilton Road · Groveport, OH 43125

This system has been tested according to NSF/ANSI Standards 42, 53, 58, 401, and CSA B483.1 for the reduction of the 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 permissible limit for water leaving the system, as specified in NSF/ANSI 42, 53, 58, 401, and CSA B483.1.

NSF/ANSI 42	Reduction Requirement	Overall % Reduction	Results
Chlorine Reduction, Free Available	≥50%	96.8%	Pass
Chloramine Reduction, Free Available	0.5 mg/l	96.8%	Pass
Particulate Class I (particles 0.5 to <1 µm)	≥85%	99.3%	Pass

NSF/ANSI 53	Reduction Requirement	Overall % Reduction	Results
Asbestos Reduction	99%	99.9%	Pass
Cyst, Live Cryptosporidium & Giardia	99.95%	99.997%	Pass
Lead Reduction pH 6.5	5 ug/L	99.8%	Pass
Lead Reduction pH 8.5	5 ug/L	99%	Pass
Mercury Reduction pH 6.5	2 ug/L	97%	Pass
Mercury Reduction pH 8.5	2 ug/L	95%	Pass
MTBE Reduction	<5 ug/L	77.7%	Pass
VOC Surrogate Test (as chloroform)	See Table 8.2	99.7%	Pass

NSF/ANSI 58	Reduction Requirement	Minimum Reduction	Overall % Reduction	Results
Arsenic Pentavalent	0.010 mg/L	88%	96%	Pass
Barium	2.0 mg/L	94%	98%	Pass
Cadmium	0.005 mg/L	84.2%	95.6%	Pass
Chromium Hexavalent	0.1 mg/L	97%	98%	Pass
Chromium Trivalent	0.1 mg/L	97.7%	99.6%	Pass
Copper	1.3 mg/L	92%	98%	Pass
Fluoride	1.5 mg/L	85%	90%	Pass
Nitrate/Nitrite	10 mg/L	74%	78%	Pass
Perfluorooctanoic acid (PFOA) & Perfluorooctane sulfonate (PFOS)	0.00007 mg/L	97.4%	98.4%	Pass
Radium 226/228	5 pCi/L	94%	98%	Pass
Selenium	0.05 mg/L	97%	99%	Pass
TDS	187 mg/L	95.7%	96.4%	Pass
Turbidity	0.5 NTU	99.2%	99.3%	Pass

NSF/ANSI 401	Maximum Concentration	Minimum Reduction	Overall % Reduction	Results
Atenolol	30 ng/L	94.2%	94.4%	Pass
Bisphenol A	300 ng/L	94.8%	95.3%	Pass
Carbamazepine	200 ng/L	96.1%	96.4%	Pass
DEET	200 ng/L	96.3%	96.7%	Pass
Estrone	20 ng/L	96.3%	96.5%	Pass
Ibuprofen	60 ng/L	95.1%	95.3%	Pass
Linuron	20 ng/L	90.9%	91.7%	Pass
Meprobamate	60 ng/L	94.4%	95.2%	Pass
Metolachlor	200 ng/L	96.7%	96.9%	Pass
Naproxen	20 ng/L	96.7%	97%	Pass
Nonyl phenol	200 ng/L	91.7%	92.3%	Pass
Phenytoin	30 ng/L	93%	94.2%	Pass
TCEP	700 ng/L	96.2%	96.4%	Pass
TCPP	700 ng/L	92.7%	93.2%	Pass
Trimethoprim	20 ng/L	95.7%	95.8%	Pass
Microplastics (particles 0.5 to <1 µm)	At least 10,000 particles/mL	≥85%	99.3%	Pass

Table 8.2 – Performance data sheet reduction claims for organic chemicals included by surrogate testing

Contaminant	Influent/Unfiltered	Effluent/Filtered mg/L	Percent Reduction
Traditional RO systems (i.e. RO systems w/ a tank) typically have a 1:4 waste ratio, in a data sheet that number is expressed as a percentage and labelled as an efficiency rating. 25% efficiency means for every 4 gallon coming into the system only 1 gallon is available as pure water. For comparison, Cloud has a 54% efficiency rating, meaning our waste ratio is >1:1.			
chloropicrin	—	0.015	0.0002 99%
2,4-D	0.07	0.11	0.0017 98%
dibromochloropropane (DBCP)	0.0002	0.052	0.00002 >99%
o-dichlorobenzene	0.6	0.080	0.001 >99%
p-dichlorobenzene	0.075	0.040	0.001 >98%
1,2-dichloroethane	0.005	0.088	0.0048 95%
1,1-dichloroethylene	0.007	0.083	0.001 >99%
cis-1,2-dichloroethylene	0.07	0.170	0.0005 >99%
trans-1,2-dichloroethylene	0.1	0.086	0.001 >99%
1,2-dichloropropane	0.005	0.080	0.001 >99%
cis-1,3-dichloropropylene	—	0.079	0.001 >99%
dinoseb	0.007	0.17	0.0002 99%
endrin	0.002	0.053	0.00059 99%
ethylbenzene	0.7	0.088	0.001 >99%
ethylene dibromide (EDB)	—	—	—
haloacetonitriles (HAN)	—	—	—
bromochloroacetonitrile	—	—	—
dibromoacetonitrile	—	—	—
dichloroacetonitrile	—	—	—
trichloroacetonitrile	—	—	—
haloketones (HK)	—	—	—
1,1-dichloro-2-propanone	—	—	—
1,1,1-trichloro-2-propanone	—	—	—
heptachlor (H-34, Heptachlor epoxide)	—	—	—
hexachlorobutadiene	—	—	—
hexachlorocyclopentadiene	0.05	0.060	0.000002 >99%
lindane	0.0002	0.055	0.00001 >99%
methoxychlor	0.04	0.050	0.0001 >99%
pentachlorophenol	0.001	0.096	0.001 >99%
simazine	0.004	0.120	0.004 >97%
styrene	0.1	0.150	0.0005 >99%
1,1,2,2-tetrachloroethane	—	0.081	0.001 >99%
tetrachloroethylene	0.005	0.081	0.001 >99%
toluene	1	0.078	0.001 >99%
2,4,5-TP (silvex)	0.05	0.27	0.0016 99%
tribromoacetic acid	—	0.042	0.001 >98%
1,2,4-trichlorobenzene	0.07	0.160	0.0005 >99%
1,1,1-trichloroethane	0.2	0.084	0.0046 95%
1,1,2-trichloroethane	0.005	0.150	0.0005 >99%
trichloroethylene	0.005	0.180	0.001 >99%
trihalomethanes (THMs)			
bromodichloromethane (THM)			
bromoform (THM)	0.080	0.300	0.015 95%
chloroform (THM)			
chlorodibromomethane (THM)			
xylenes (total)	10	0.070	0.001 >99%

TDS or Total Dissolved Solids represents the smallest particles present in drinking water. Therefore, TDS is often used as the primary proxy for a water's "purity". The more dissolved solids removed, the more powerful the RO system. All of the other contaminant data can create unnecessary noise, focus on the TDS reduction to judge how good the system is at removing toxins. Typically traditional RO systems have strong TDS reduction rates in the 92-98% range. Cloud is at the very high end of this range at 98%.



System tested and certified by WQA to NSF/ANSI Standards 42, 53, 58, 401, and CSA B483.1 for the reduction of the claims specified on the Performance Data Sheet and at www.WQA.org.



Filter is only to be used with cold water.



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



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

This system is acceptable for treatment of influent concentrations of no more than 27 mg/L nitrate and 3 mg/L nitrite in combination measured as N and is certified for nitrate/nitrite reduction only for water supplies with a pressure of 40 psi or greater. The chlorine claim is based on chloramine reduction as a surrogate.

- All contaminants reduced by this filter are listed.
- Not all contaminants listed may be present in your water.
- Does not remove all contaminants that may be present in tap water.
- The contaminants covered in NSF/ANSI 401 have been deemed as incidental/emerging compounds and have been detected in drinking water supplies at trace levels. These compounds can affect some consumers' perception of drinking water quality.
- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.