aquasana

PERFORMANCE DATA SHEET

Model	Replacement	Rated Capacity	Operating Pressure Range	Operating Temp. Range	Rated Flow
AQ-5100	AQ-5100R	200 gallons 757 liters	20-80 psi 137-551 kPa	40-90° F 4.44-32.2° C	0.5 gpm 1.9 lpm

Manufactured by: Aquasana, Inc. 6310 Midway Road · Haltom City, Texas 76117 · 866.662.6885

This system has been tested according to NSF/ANSI 42, 53, & 401 for 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, & 401.

NSF/ANSI 42	Reduction Requirement	Overall % Reduction	Results
Chlorine Reduction	≥50%	97.3%	Pass
Chloramine Reduction	0.5 mg/L	91%	Pass
Particulate Class I (particles 0.5 to <1 µm)	≥85%	99.6%	Pass

NSF/ANSI 53	Reduction Requirement	Overall % Reduction	Results
Asbestos Reduction	99%	>99%	Pass
Cyst (Microspheres)	99.95%	99.995%	Pass
Lead pH 6.5	5 ug/L	>99.7%	Pass
Lead pH 8.5	5 ug/L	99.6%	Pass
Mercury pH 6.5	2 ug/L	>96.2%	Pass
Mercury pH 8.5	2 ug/L	95.4	Pass
MTBE Reduction	5 ug/L	85.5%	Pass
Perfluorooctanoic acid (PFOA) & Perfluorooctane sulfonate (PFOS)	0.02 ug/L	99.7%	Pass
Turbidity	0.5 NTU	99.34%	Pass
VOC Surrogate Test (as chloroform)	See Table 8.2	99.3%	Pass

NSF/ANSI 401	Maximum Concentration	Minimum Reduction	Overall % Reduction	Results
Atenolol	30 ng/L	94.7%	>94.7%	Pass
Bisphenol A	300 ng/L	93.2%	93.9%	Pass
Carbamazepine	200 ng/L	98.4%	>98.4%	Pass
DEET	200 ng/L	98.4%	>98.4%	Pass
Estrone	20 ng/L	94.8%	95.5%	Pass
Ibuprofen	60 ng/L	93.5%	94.6%	Pass
Linuron	20 ng/L	96.3%	>96.3%	Pass
Meprobamate	60 ng/L	94.6%	>94.6%	Pass
Metolachlor	200 ng/L	98.4%	>98.4%	Pass
Naproxen	20 ng/L	94.5%	95.5%	Pass
Nonyl phenol	200 ng/L	89.3%	92.3%	Pass
Phenytoin	30 ng/L	95.4%	>95.7%	Pass
TCEP	700 ng/L	98.0%	>98.0%	Pass
TCPP	700 ng/L	97.9%	>97.9%	Pass
Trimethoprim	20 ng/L	96.1%	>96.1%	Pass
Microplastics (particles 0.5 to <1 µm)	At least 10,000 particles/mL	≥85%	99.6%	Pass

Certified by WQA to NSF/ANSI 42, 53, and 401 when used in AQ-5100 for the reduction of the claims specified on the Performance Data Sheet

- 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.

Filter is only to be used with cold water.

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.

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

VOCs (by surrogate testing using chloroform)	Drinking water regulatory level (MCL/MAC) mg/L	Influent/ Unfiltered mg/L	Effluent/ Filtered mg/L	Percent Reduction
alachlor	0.002	94.7%	>94.7%	>98%
atrazine	0.003	98.9%	>98.9%	>97%
benzene	0.005	98.4%	>98.4%	>99%
carbofuran	0.04	98.4%	>98.4%	>99%
carbon tetrachloride	0.005	96.1%	>96.1%	98%
chlorobenzene	0.1	95.1%	>95.2%	>99%
chloropicrin	—	96.3%	>96.3%	99%
2,4-D	0.07	94.6%	>94.6%	98%
dibromochloropropane (DBCP)	0.0002	98.4%	>98.4%	>99%
o-dichlorobenzene	0.6	96.4%	>96.5%	>99%
p-dichlorobenzene	0.075	90.3%	91.5%	>98%
1,2-dichloroethane	0.005	95.4%	>95.7%	95%
1,1-dichloroethylene	0.007	98.0%	>98.0%	>99%
cis-1,2-dichloroethylene	0.07	97.9%	>97.9%	>99%
trans-1,2-dichloroethylene	0.1	96.1%	>96.1%	>99%
1,2-dichloropropane	0.005	0.080	0.001	>99%
cis-1,3-dichloropropylene	—	0.079	0.001	>99%
dinoseb	0.007	0.170	0.0002	99%
endrin	0.002	0.053	0.00059	99%
ethylbenzene	0.7	0.088	0.001	>99%
ethylene dibromide (EDB)	0.00005	0.044	0.00002	>99%
haloacetonitriles (HAN)				
bromochloroacetontrile	—	0.022	0.0005	98%
dibromoacetontrile	—	0.024	0.0006	98%
dichloroacetontrile	—	0.0096	0.0002	98%
trichloroacetontrile	—	0.015	0.0003	98%
haloketones (HK)				
1,1-dichloro-2-propanone	—	0.0072	0.0001	99%
1,1,1-trichloro-2-propanone	—	0.0082	0.0003	96%
heptachlor (H-34, Heptox)	0.0004	0.025	0.00001	>99%
heptachlor epoxide	0.0002	0.0107	0.0002	98%
hexachlorobutadiene	—	0.044	0.001	>98%
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	0.270	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	0.0010	>99%
trihalomethanes (THMs)		Influent/ Unfiltered	Effluent/ Filtered	Percent Reduction
bromodichloromethane (THM) bromoform (THM) chloroform (THM) chlorodibromomethane (THM)	0.080	0.300	0.015	95%
xylenes (total)	10	0.070	0.001	>99%