

# AOW-3000

Performance Data for the Drinking Water System AO-US-RO-4000						
Models	Replacement	Operating pressure range	Operating temp. range	Recovery rating	Efficiency rating	Daily Production (DPR)
AO-US-RO-4000	AO-4000-CARBON and AO-RO-RM-R	40-100 psi 275-689 kPa	40-90° F 4.44-32.2° C	29.43%	17.91%	13.32 gallons 50.4 liters
Manufactured by: A.O. Smith Corporation 11270 West Park Place   Milwaukee, WI 53224   877.333.7108						

Testing Performed under NSF/ANSI Standards 42, 53, 58, 401 & P473 and in accordance with the California Department of Health Services Drinking Water Treatment Device Program. This System has been tested according to NSF/ANSI 42, 53, 401 & P473 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, 58, 401 & P473.

NSF/ANSI 42	Minimum Reduction	Overall % Reduction	Results
Chlorine Reduction, Free Available	<0.5 mg/l	97.66%	Pass
Chloramine Reduction, Free Available	<0.5 mg/l	97.66%	Pass
Particulate Reduction	85%	99.9%	Pass

NSF/ANSI 53	Minimum Reduction	Overall % Reduction	Results
Cyst Live Cryptosporidium & Giardia	99.95%	>99.99%	Pass
Mercury Reduction pH 8.5	<2 ug/L	>95.8%	Pass
Mercury Reduction pH 6.5	<2 ug/L	>96.5%	Pass
Lead Reduction pH 6.5	<10 ug/L	>99.4%	Pass
Lead Reduction pH 8.5	<10 ug/L	>99.3%	Pass
MTBE Reduction	<5 ug/L	86.6%	Pass
Turbidity	<0.5 NTU	99.1%	Pass
VOC Surrogate Test	95%	99.4%	Pass
Asbestos	99%	>99%	Pass

NSF/ANSI 58	Maximum Concentration	Minimum Reduction	Overall % Reduction	Results
Arsenic Pentavalent	0.30mg/L ± 10%	80.0%	97.6%	Pass
Barium	10.0mg/L ± 10%	80.0%	95.2%	Pass
Cadmium	0.30mg/L ± 10%	83.3%	95.3%	Pass
Chromium Hexavalent	0.30mg/L ± 10%	66.7%	97.0%	Pass
Chromium Trivalent	0.30mg/L ± 10%	66.7%	96.6%	Pass
Copper	0.30mg/L ± 10%	56.7%	96.6%	Pass
Fluoride	8.0mg/L ± 10%	81.2%	95.7%	Pass
Lead	.15mg/L ± 10%	93.3%	96.6%	Pass
Nitrate/Nitrite	30.0mg/L ± 10%	66.7%	82.4%	Pass
Radium 226/228	25pCi/L ± 10%	80.0%	80.0%	Pass
Selenium	0.10mg/L ± 10%	50.0%	97.9%	Pass
TDS	750mg/L ± 10%	75.0%	95.0%	Pass
Turbidity	11 ± NTU	95.4%	99.1%	Pass

NSF/ANSI 401	Maximum Concentration	Minimum Reduction	Overall % Reduction	Results
Atenolol	30 ng/L	94.2%	94.2%	Pass
Bisphenol A	300 ng/L	98.80%	98.9%	Pass
Carbamazepine	200 ng/L	98.6%	98.6%	Pass
DEET	200 ng/L	98.7%	98.7%	Pass
Estrone	20 ng/L	96.30%	96.5%	Pass
Ibuprofen	60 ng/L	95.3%	95.4%	Pass
Linuron	20 ng/L	96.6%	96.6%	Pass
Meprobamate	60 ng/L	94.7%	94.7%	Pass
Metolachlor	200 ng/L	98.6%	98.6%	Pass
Naproxen	20 ng/L	96.3%	96.4%	Pass
Nonyl phenol	200 ng/L	97.50%	97.5%	Pass
Phenytol	30 ng/L	95.50%	95.6%	Pass
TCEP	700 ng/L	98%	98%	Pass
TCEP	700 ng/L	97.8%	97.8%	Pass
Trimethoprim	20 ng/L	96.7%	96.7%	Pass

NSF P473	Influent challenge concentration	Maximum permissible concentration	Overall % reduction	Results
Perfluorooctanoic acid (PFOA) & Perfluorooctane sulfonate (PFOS)	1.5 ± 10% ug/L	0.07 ug/L	96%	Pass

Organic chemicals included by surrogate testing				
VOCs (by surrogate testing using chloroform)	Drinking water regulatory level (MCL/ MAC) mg/L	Influent/ Unfiltered	Effluent/ Filtered	Percent Reduction
alachlor	0.002	0.050	0.001	>98%
atrazine	0.003	0.100	0.003	>97%
benzene	0.005	0.081	0.001	>99%
carbafuran	0.04	0.190	0.001	>99%
carbon tetrachloride	0.005	0.078	0.0018	98%
chlorobenzene	0.1	0.077	0.001	>99%
chloropicrin	—	0.015	0.0002	99%
2,4-D	0.07	0.110	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	0.170	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)				
bromochloroacetonitrile	—	0.022	0.0005	98%
dibromoacetonitrile	—	0.024	0.0006	98%
dichloroacetonitrile	—	0.0096	0.0002	98%
trichloroacetonitrile	—	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)				
bromodichloromethane (THM)	0.080	0.300	0.015	95%
bromoform (THM)				
chloroform (THM)				
chlorodibromomethane (THM)				
xylenes (total)	10	0.070	0.001	>99%

- 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.

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.

For use with municipally treated water only. Do not use with water that is microbiologically unsafe or of unknown water quality without adequate disinfection before or after the system.