



System Tested by Pace Analytical against NSF/ANSI Standard 42 for the reduction of Chloramine, Chlorine Taste and Odor, and NSF/ANSI Standard 53 for the reduction of Lead and VOC.



**PERFORMANCE DATA SHEET**

**Model A305**

**NSF/ANSI STANDARD 53 (Health Effects) - Fluoride Reduction Notes see next page**

This system has been tested to NSF/ANSI Standard 53 for the reduction of the substances 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 Standard 53.

[continued]

SUBSTANCE	INFLUENT CHALLENGE CONCENTRATION (mg/L)	MAX. PERMISSIBLE PRODUCT WATER CONCENTRATION (mg/L)	CHEMICAL REDUCTION PERCENT
alachlor	0.050	0.001	>98%
atrazine	0.100	0.003	>97%
benzene	0.081	0.001	>99%
carbofuran	0.190	0.001	>99%
carbon tetrachloride	0.078	0.001	>99%
chlorobenzene	0.077	0.001	>99%
chloropicrin	0.015	0.0002	99%
2,4-D	0.110	0.0017	98%
dibromochloropropane (DBCP)	0.052	0.00002	>99%
o-dichlorobenzene	0.080	0.001	>99%
p-dichlorobenzene	0.040	0.001	>99%
1,2-dichloroethane	0.088	0.001	>99%
1,1-dichloroethylene	0.083	0.001	>99%
cis-1,2-dichloroethylene	0.170	0.0005	>99%
trans-1,2-dichloroethylene	0.086	0.001	>99%
1,2-dichloropropane	0.080	0.001	>99%
cis-1,3-dichloropropylene	0.079	0.001	>99%
dinoseb	0.170	0.0002	99%
endrin	0.053	0.00059	99%
ethylbenzene	0.088	0.001	>99%
ethylene dibromide (EDB)	0.044	0.00002	>99%
haloacetonitriles (HAN):			
bromochloroacetonitrile	0.022	0.0005	98%
dibromoacetonitrile	0.024	0.0005	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)	0.08	0.0001	>99%

SUBSTANCE	INFLUENT CHALLENGE CONCENTRATION (mg/L)	MAX. PERMISSIBLE PRODUCT WATER CONCENTRATION (mg/L)	CHEMICAL REDUCTION PERCENT
heptachlor epoxide	0.0107	0.0002	98%
hexachlorobutadiene	0.044	0.001	>98%
hexachlorocyclopentadiene	0.060	0.000002	>99%
lindane	0.055	0.000001	>99%
methoxychlor	0.050	0.0001	>99%
pentachlorophenol	0.096	0.001	>99%
simazine	0.120	0.004	>97%
styrene	0.150	0.0005	>99%
1,1,2,2-tetrachloroethane	0.081	0.001	>99%
tetrachloroethylene	0.081	0.001	>99%
toluene	0.078	0.001	>99%
2,4,5-TP (silvex)	0.270	0.0016	99%
tribromoacetic acid	0.042	0.001	>98%
1,2,4-trichlorobenzene	0.160	0.0005	>99%
1,1,1-trichloroethane	0.084	0.0046	>95%
1,1,2-trichloroethane	0.150	0.0005	>99%
trichloroethylene	0.180	0.001	>99%
trihalomethanes (includes):			
chloroform (surrogate chemical)	0.300	0.015	95%
bromoform			
bromodichloromethane			
chlorodibromomethane			
xlenes (total)	0.070	0.001	>99%

SUBSTANCE	INFLUENT CHALLENGE CONCENTRATION	REDUCTION REQUIREMENT	ACTUAL % REDUCTION
lead (pH 6.5)	0.15 mg/L ± 10%	0.010 mg/L	>99%
lead (pH 8.5)	0.15 mg/L ± 10%	0.010 mg/L	>99%

**NSF/ANSI STANDARD 42 (Aesthetic Effects)**

This system has been tested to NSF/ANSI Standard 42 for the reduction of the substances 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 Standard 42.

95% occurrence for these contaminants. If there is no occurrence data on which to base the influent challenge, the Standard uses three (3) times the regulated level for the influent challenge. These filters are then tested to ensure that they reduce the contaminate below the regulated level for safe consumption. While testing was performed under standard laboratory conditions, actual performance may vary.

SUBSTANCE	INFLUENT CHALLENGE CONCENTRATION	REDUCTION REQUIREMENT	ACTUAL % REDUCTION
chlorine	2.0 mg/L ± 10%	≥50%	>99%
chloramine	3.0 mg/L ± 10%	.5 mg/L	>99%

Testing is conducted with actual contaminated water at high influent challenge levels. These high influent challenges are established using "occurrence" data from such agencies as USGS (United States Geological Survey) and USEPA (United States Environmental Protection Agency). These challenges are then set at the

Percent reduction reflects the allowable claims for reduction of Volatile Organic Compounds (VOC) based on NSF International Standard No 53 tables and the corresponding Influent Concentrations, for all systems which have a demonstrated capacity to reduce Chloroform by 95% or better (Chloroform is used as a "surrogate" chemical for all VOC reduction claims). Actual testing of AWS-A305 conducted by Pace Analytical demonstrated a >99% reduction rate for the removal of Chloroform.



## SPECIFICATIONS

## Model A305



### ATLA WATER SYSTEM - Model A305

SKU..... AWS-A305  
 Installation ..... Undersink  
 Rated Capacity ..... 1,000 gallons (3,785 L)  
 Rated Service Flow ..... 1 gal/min  
 Replacement Filter Set ..... AWS-FS300

Maximum Working Pressure ..... 75 psig (517 kPa)  
 Minimum Working Pressure ..... 30 psig (207 kPa)  
 Maximum Operating Temperature (for cold water use only) ..... 100° F / 38° C  
 Minimum Operating Temperature ..... 34° F / 1° C  
 Construction..... NSF Certified Components

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- For use on cold, potable water supplies only.
- For this system to continue to perform as tested and represented, use only genuine Atla AWS-FS300 replacement filters. Replace the filter cartridges when the first of the following occurs:
  - Annually
  - The flow rate diminishes
  - When the rated capacity of the filters has been reached
  - When you notice an off taste or odor
- Installation of this product must comply with all state and local laws and regulations. Refer to your local agencies for details.
- The contaminants or other substances removed or reduced by this Drinking Water System are not necessarily in all users' water.
- Individuals requiring specific microbiological purity should consult their physician.
- For limited warranty and installation and operating instructions, please refer to the Usage and Installation Instructions.

- For more information regarding the purchase of genuine Atla replacement filters and parts, visit:

[atlawater.com](http://atlawater.com)

#### ABBREVIATIONS:

ug/L - Micrograms per liter  
 mg/L - Milligrams per liter  
 MCL - Maximum Contaminant Level  
 VOC - Volatile Organic Compound  
 USEPA - United States Environmental Protection Agency  
 USGS - United State Geological Survey

### FLUORIDE REDUCTION NOTES

Fluoride is the most difficult of all contaminants to remove. Even reverse osmosis systems remove only 85-92% of fluoride, and they remove an even higher percentage of the beneficial minerals which Atla preserves. The NSF Standard test for fluoride reduction in water systems isn't based on typical municipally-added concentrations. The amount of fluoride added to water now is generally limited to 0.7-1.0 mg/L. The test for certification uses a concentration of 7 mg/L or higher. The Atla System does not have the ability to reduce fluoride from greater than 7 mg/L to below 1.5 mg/L over the capacity of the filters (this is the requirement for certification, our filter capacity is 1000 gallons). Thus we cannot be certified for fluoride removal based on that standard. The same laboratory that certified the purification performance for the chemicals listed on this Purification Performance Data Sheet determined that with a fluoride concentration challenge of 7.14 mg/L, the average reduction was 0.885 mg/L over 1000 gallons of use (3 gallons per day

annually). Based on real-world tests provided by Atla customers, you can expect a 10%-89% reduction of the fluoride in your water provided the filters are changed annually. (Yes, that's a wide spectrum of reduction, we know.) The factors affecting reduction include the total volume of water purified during the year, the volumetric flow rate of the water (affected by water pressure and faucet position), the other contaminants in your water (some contaminants outcompete fluoride for adhesion to the purification media), and the pH of your source water. For people with fluoride sensitivity, we can supply an additional fluoride filter for the Atla Water System to more than double the reduction capacity over the standard system. If you want the Purification Expansion Kit and additional Fluoride Filter, we have those items available online or you may contact us to discuss your exact needs.