



PERFORMANCE DATA SHEET | AHW-35, HW-35

NSF/ANSI STANDARD 53 (Health Effects)

Systems have been tested according to NSF/ANSI Standard 53 for reduction of the substances listed below. The concentration of the indicated substances in water entering the systems was reduced to a concentration less than or equal to the permissible limit for water leaving the systems, as specified in NSF/ANSI Standard 53.

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	0.0018	98%
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	>98%
1,2-dichloroethane	0.088	0.0048	>95%
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	0.0006	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)	0.08	0.0001	>99%

[continued]

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	0.00001	>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			
xylenes (total)	0.070	0.001	>99%

SUBSTANCE	INFLUENT CHALLENGE CONCENTRATION	REDUCTION REQUIREMENT	ACTUAL % REDUCTION
cyst (cryptosporidium, giardia)	min. 50,000/L	99.95%	>99.99%

SUBSTANCE	INFLUENT CHALLENGE CONCENTRATION (mg/L)	MAX. PERMISSIBLE PRODUCT WATER CONCENTRATION (mg/L)	CHEMICAL REDUCTION PERCENT
lead (pH 6.5)	0.15 ± 10%	0.010	>99%
lead (pH 8.5)	0.15 ± 10%	0.010	>99%
MTBE (methyl tert-butyl ether)	0.015 ± 10%	0.005	>94.3%

NSF/ANSI STANDARD 42 (Aesthetic Effects)

Systems have been tested according to NSF/ANSI Standard 42 for reduction of the substances listed below. The concentration of the indicated substances in water entering the systems was reduced to a concentration less than or equal to the permissible limit for water leaving the systems, as specified in NSF/ANSI Standard 42.

SUBSTANCE	INFLUENT CHALLENGE CONCENTRATION	REDUCTION REQUIREMENT	ACTUAL % REDUCTION
chlorine	2.0 mg/L ± 10%	≥50%	93.1%
chloramine	3.0 mg/L ± 10%	0.5 mg/L	93.1%
particulate*	at least 10,000 particles/mL	≥85%	>99%

*Class I particles 0.5 to <1 µm

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 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 contaminant below the regulated level for safe consumption. While testing was performed under standard laboratory conditions, actual performance may vary.

Percent reduction reflects the allowable claims for reduction of Volatile Organic Compounds (VOCs) 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 the CT-35E systems conducted by NSF International (tested to 120% of claimed capacity) demonstrated a 99.7% reduction rate for the removal of Chloroform.

ADVANCED HEALTHY WATER SYSTEM [Model: AHW-35]

Installation Countertop
 EPA Establishment Number 63018-NV-001
 Rated Capacity 1000 gallons
 Replacement Cartridge A-35
 Replacement Battery (included with A-35) 2032 CR, 3V lithium
 Filter Life Indicator Electronic LED
 Rated Service Flow @ 60 psi 0.75 gal/min
 Housing Construction High Impact ABS/Surgical Grade Stainless Steel
 Maximum Working Pressure 100 psig (689.5 kPa)
 Minimum Working Pressure 30 psig (206.8 kPa)
 Maximum Operating Temperature (for cold water use only) 100° F/38° C
 Minimum Operating Temperature 34° F/ 1° C
 Particle Retention Size Sub-Micron (0.5 micron)

HEALTHY WATER SYSTEM [Model: HW-35]

Installation Countertop
 EPA Establishment Number 63018-NV-001
 Rated Capacity 600 gallons
 Replacement Cartridge H-35
 Rated Service Flow @ 60 psi 0.75 gal/min
 Housing Construction High Impact ABS/Surgical Grade Stainless Steel
 Maximum Working Pressure 100 psig (689.5 kPa)
 Minimum Working Pressure 30 psig (206.8 kPa)
 Maximum Operating Temperature (for cold water use only) 100° F/38° C
 Minimum Operating Temperature 34° F/ 1° C
 Particle Retention Size Sub-Micron (0.5 micron)

U.S. Patent Number: D408,494

1. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the System. Systems certified for cyst reduction may be used with disinfected water that may contain filterable cysts.
2. For use on cold, potable water supplies only.
3. For this System to continue to perform as tested and represented, use only Genuine, NSF Certified, Essence Replacement Cartridges. Replace Cartridge when the first of the following occurs:
 - Annually
 - The flow rate diminishes
 - When the rated capacity of the Cartridge has been reached
 - When you notice a taste or odor reoccurrence
4. Installation of this product must comply with all state and local laws and regulations. Refer to your local agencies for details.
5. The contaminants or other substances removed or reduced by this Drinking Water System are not necessarily in all users' water.
6. Individuals requiring specific microbiological purity should consult their physician.
7. For limited warranty and installation and operating instructions, please refer to the Installation, Use & Care Guide.

8. For more information regarding the purchase of Genuine, NSF Certified, Essence Replacement Cartridges and replacement parts, contact:

Water Safety Corporation
 Attn: Essence Customer Service
 3760 Barron Way
 Reno, NV 89511
 tel: 1-888-386-0880
 email: info@essencewaterfilter.com

ABBREVIATIONS:
 ug/L: Micrograms per liter
 Mg/L: Milligrams per liter
 NTU: Nephelometric Turbidity Unit
 MCL: Maximum Contaminant Level
 VOC: Volatile Organic Compound
 US-EPA: United States Environmental Protection Agency

The estimated annual cost of the components that must be routinely replaced to maintain the performance of the system as specified in this Performance Data Sheet will not exceed \$50.00.

FOR PURCHASES MADE IN IOWA

This form must be signed and dated by the buyer and seller prior to the consummation of the sale. This form must be retained by the seller for a minimum of two years.

BUYER

 SIGNATURE

 NAME (print or type)

 DATE

 ADDRESS

 CITY STATE ZIP

SELLER

 SIGNATURE

 NAME (print or type)

 DATE

 ADDRESS

 CITY STATE ZIP

