

## DWS-HFC-1000 Drinking Water System

### DWS-HFC-1000 Replacement Cartridge Part No. RC-HFC-1000

Read this Performance Data Sheet and compare the capabilities of this unit with your actual drinking water needs. Bear in mind that this system is your final barrier of protection against unknown contaminant's which may be affecting your water supply.

**Water Testing:** If your water has an aesthetic problem - one you can see, taste or smell - your senses are your most reliable resource. If you have read about or suspect volatile organic chemicals, chlorinated by-products or lead contamination you may want to have your water tested. But be careful...water testing can be expensive. A complete analysis of hundreds of contaminant's that may be in water can cost hundreds of dollars, or even thousands of dollars. A better .....and less .....expensive alternative is to have your water tested only for common water contaminant's, or for contaminant's you have read about or know are likely to be in your water. Additionally, they may not be as conclusive as you might like, since contaminant levels can vary from day to day and week to week. Taking a specific sample at any given time may yield a falsely good (or bad) result.

**Private water supply:** Having your water tested may be your only way of knowing for sure what health related contaminant's might be present. Local health departments only test for a limited range of contaminant's like bacteria to approve the well for potable water.

**Public Water supply:** Which service more that 3/4 of the population in the America are already tested, following state and federal guidelines and law and are available for the asking from your water supply company/utility. These guidelines and laws do not cover every known contaminant that may be affecting your water source.

**Water the Way you Want It:** Many times it is a better investment, both in terms money and peace of mind, to invest in a quality drinking water system that solves a wide range of problems that you may or may not have or know about.

**Health Claim Performance Certified by NSF/ANSI Standards 42 and 53.** This system has been tested according to NSF/ANSI 42 and 53 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 and 53.

Substance	Influent Challenge Concentration	Max Permissible Product Water Concentration	Reduction	Minimum Reduction	Average Reduction
<b>Standard 42 - Aesthetic Effects</b>					
Chlorine	2.0 mg/L +-10%			>=50%	95.0%
Chloramine (as monochloramine)	3.0 mg/L +-10%	<=0.5mg/L			99.3%
<b>Particulate</b>					
Class 1 Particles 0.5-1.0 micron	>10,000 particles / mL			>=85%	99.7%
<b>Standard 53 - Health Effects</b>					
Chloroform (VOC surrogate chemical)	300ug/L +-10%			>= 95%	97.2%
MTBE (Methyl tert-Butyl Ether)	0.02mg/L +-10%	0.005mg/L		<=0.005mg/L	90.2%
TTHM (as chloroform)	0.450mg/L +-10%	0.080/mg/L		87.6%	94.38%
Turbidity	10.0-12.0 NTU			<=0.5NTU	98.84%
Cysts	>50,000 /L			99.95%	99.99%
Lead 6.5 pH	0.15mg/L +-10%	0.005mg/L		<=0.010	96.5%
Lead 8.5 pH	0.15mg/L +-10%	0.005mg/L		<=0.010	96.7%

### Operating Specifications

- \*Capacity: 500 gallons (1890L)
- \*Pressure requirements: 10-125 psi (0.7-8.6 bar), non-shock
- \*Temperaure: 35-100 degrees F (2-38 degrees C)
- \*Flow Rate: 1.5 gpm (5.7Lpm)

### Performance Data Sheet Reduction Claims for Organic Chemicals Included by Surrogate Testing

Substance	Influent Challenge Concentration mg/L	Maximum permissible Product Water Concentration mg/L
alachlor	0.050	0.001
atrazine	0.100	0.003
benzene	0.081	0.001
carbofuran	0.190	0.001
carbon tetrachloride	0.078	0.0018
Chlorobenzene	0.077	0.001
chloropicrin	0.015	0.0002
2,4D	0.110	0.0017
dibromochloropane (DBCP)	0.062	0.00002
o-dichlorobenzene	0.080	0.001
p-dichlorobenzene	0.040	0.001
1,2-dichloroethane	0.088	0.0048
1,1-dichloroethylene	0.083	0.001
ois-1,2-dichloroethylene	0.170	0.0005
trans-1,2-dichloroethylene	0.086	0.001
1,2-dichloropopane	0.080	0.001
ois-1,3-dichloropropylene	0.079	0.001
dinoseb	0.170	0.0002
endrin	0.053	0.00059
ethylbenzene	0.088	0.001
ethylene dibromide (EDB)	0.044	0.00002
<b>haloacetonitriles (HAN):</b>		
bromochloroacetonitrile	0.022	0.0006
dibromoacetonitrile	0.024	0.0006
dichloroacetonitrile	0.0096	0.0002
trichloroacetonitrile	0.015	0.0003
<b>haloketones (HK)</b>		
1,1-dichloro-2-propanone	0.0072	0.0001
1,1,1-trichloro-2-propanone	0.0082	0.0003
heptachlor	0.25	0.00001
heptachlor epoxide	0.0107	0.0002
hexachlorobutadiene	0.044	0.001
hexahlorocyclopentadiene	0.060	0.000002
lindane	0.065	0.00001
methoxychlor	0.050	0.0001
pentachlorophenol	0.096	0.001
simazine	0.120	0.001
styrene	0.150	0.0005
1,1,2,2-tetrachloroethane	0.081	0.001
tetrachloroethylene	0.081	0.001
toluene	0.078	0.001
2,4,5-TP (silvex)	0.270	0.0016
tribromoacetic acid	0.042	0.001
1,2,4-trichlorobenzene	0.160	0.0005
1,1,1-trichloroethane	0.084	0.0046
1,1,2-trichloroethane	0.150	0.0005
trichloroethylene	0.180	0.001
<b>trihalomethanes (includes):</b>		
chloroform (surrogate chemical)		
bromoform	0.300	0.015
bromodichloromethane		
chlorodibromomethane		
xylenes (total)	0.070	0.001

This system conforms to NSF/ANSI 42 and 53 for specific performance claims as verified and substantiated by test data.

## Features of Product

- \***High Flow Rate** 1.5 gpm
- \***Exclusive & Sanitary, Quick Change Cartridge**
- \***Fine Filtration** produces a premium quality water for drinking, cooking, ice and food preparation.
- \***Reduces Chlorine** taste and odor
- \***Reduces Chloramine** taste and odor, and other bad tastes and odor.
- \***Reduces dirt, rust, and other particulates**
- \***Reduces parasitic protozoan cysts**, such as Giardia, Entamoeba and Cryptosporidium.
- \***Reduces lead** to below Federal Action level
- \***Effectively reduces methyltertiary-butyl ether (MTBE)**
- \***Effectively reduces volatile organic chemicals (VOC's)**, including trihalomethanes (TTHM's)
- \***Antimicrobial**... EPA-registered, FDA-listed and NSF-certified for food and water uses: Silver Zeolite Technology blend throughout the filter using ion exchange to "manage" the silver release, giving optimum efficacy and longevity.
- \***Limescale protection** against hard water minerals that form scale on water using appliances.

## LIMITED WARRANTY

Waterline Technology warrants this product to be free of defects in workmanship or materials for twelve months from date of purchase or 24 months from date of manufacture. This warranty extends only to the original consumer and does not cover products which malfunction due to neglect or unauthorized modification. Warranty does not cover in-house labor or other labor charges.

The unit must be used in operating conditions that conform to Waterline's recommended design guidelines. This warranty will not apply if the unit has been modified, repaired or altered by someone not authorized by Waterline. We are not responsible for damage caused by accident, fire, flood, freezing, Act of God, misuse, misapplication, neglect, oxidizing agents or operation contrary to printed instructions, or by the use of accessories or components not recommended in our installation guide.

System is not warranted to perform on a non-potable water source, or a water source which does not meet the conditions for use described in the installation guide or performance data sheet for these products. Water characteristics can vary seasonally or over a period of time. Waterline recommends having your water tested from time to time for any health related type contaminant that you are concerned with or that may be in your water supply before or after this unit.

OUR OBLIGATIONS UNDER THIS WARRANTY ARE LIMITED TO THE REPAIR OR REPLACEMENT (AT WATERLINE'S DISCRETION) OF THE FAILED PARTS OF THE SYSTEM, AND WE ASSUME NO LIABILITY WHATSOEVER FOR DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, GENERAL OR OTHER DAMAGES.

To obtain warranty performance:

A: Call Technical Service at the number listed below to obtain a RGA (Return Goods Authorization Number). No returns accepted without RGA number and Waterline reserves the right to dispose of any items returned without RGA after 30 days.

B: Return this product with the RGA number clearly marked on the carton to Waterline Technology, transportation or mail prepaid, with an attached statement giving the date and place of purchase, the nature of the defect and your return address, and if possible your telephone number.

C: Upon receipt, Waterline Technology will examine your claim. If this warranty applies, Waterline Technology, at its option will either replace or repair this product.

D: Please send all returns or warranty questions to: Waterline Technology 961 N. Main St., Mansfield, OH 44903 UPS or PO Box 396, Mansfield, OH 44901 via US Mail.

This Warranty is given in lieu of all other warranties expressed or implied, written or oral. No employee, agent, dealer, or other person is authorized to give any warranties on behalf of Waterline Technology. NOTE: Some states do not allow limitation on how long an implied warranty lasts so the above limitation may not apply to you. Similarly some states do not allow the exclusion or limitation of consequential or incidental damages so the above limitation or exclusions may not apply to you. This warranty gives you special legal rights. You may also have other rights which may vary from state to state. Proof of purchase must accompany all merchandise returns if more than 12 months from date of Manufacture.

## General Installation/Operation/Maintenance Requirements

- \*Space required: 5 x 5 x 23 in. (13 x 13 x 53 cm) including 2.5 inches of clearance under unit for cartridge change.
- \*Recommended to install vertically
- \*Flush new cartridge at full flow for several minutes until water runs clear.
- \* Replace cartridge when capacity is reached, or when flow becomes too slow, but at least once per year.

### Other Notices

- \*Installation instructions, parts and service availability, and standard warranty included with each system.
- \* This system must be maintained according to manufacturer's instructions, including replacement of filter cartridge. Suggested Retail \$140.75
- Additional important NOTES:
  - \* 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 on disinfected waters that may contain filterable cysts.
  - \*The contaminant's or other substances removed or reduced by this water treatment system are not necessarily in your water.
  - \*Check for compliance with state and local laws and regulations.
  - \*System tested under standard laboratory conditions, actual performance may vary.

Buyer \_\_\_\_\_

Seller \_\_\_\_\_

Date \_\_\_\_\_

Tested and Certified by WQA International against NSF/ANSI Standards 42 and 53 for the reduction of:

**Std. No. 42 - Aesthetic effects**  
**Chemical Reduction**

Taste and odor  
 Chlorine Taste and odor  
 Chloramine Taste and odor

**Mechanical Filtration**  
 Particulate Class 1

**Std No. 53 - Health effects**  
**Chemical Reduction**

Lead  
 MTBE  
 THM's  
 VOC

**Mechanical Filtration**  
 Turbidity  
 Cyst



State of California  
 Department of Public Health  
 Water Treatment Device  
 Certificate Number  
 08 - 1926  
 Date Issued: June 12, 2008

Trademark/Model Designation	Replacement Element(s)
Always Fresh H <sub>2</sub> O HFC-1000	RC-HFC-1000
Manufacturer: Waterline Technology	

The water treatment device(s) listed on this certificate have met the testing requirements pursuant to Section 116830 of the Health and Safety Code for the following health related contaminants:

Microbiological Contaminants and Turbidity	Inorganic/Radiological Contaminants
Cyst	Lead
Turbidity	
Organic Contaminants	
MTBE	
Trihalomethanes	
VOCs	
Alcohol	Simazine
Atrazine	Styrene
Benzene	1,1,2,2-Tetrachloroethane
Carbofuran	Tetrachloroethylene
Carbon Tetrachloride	Tobacco
Chlorobenzene	2,4,5-TP (Silvex)
Chloropicrin	Tribromoacetic Acid
2,4-D	1,2,4-Trichlorobenzene
DBCP	1,1,1-Trichloroethane
o-Dichlorobenzene	1,1,2-Trichloroethane
p-Dichlorobenzene	Trichloroethylene
1,2-Dichloroethane	Trihalomethanes (THMs)
1,1-Dichloroethylene	Bromodichloromethane
cis-1,2-Dichloroethylene	Bromofom
trans-1,2-Dichloroethylene	Chloroform
1,2-Dichloropropane	Chlorodibromomethane
cis-1,3-Dichloropropylene	Xylenes
Dinoseb	
Ethrin	
Ethylbenzene	
EDB	
Hexachlorocyclopentadiene (HCCP)	
Bromochloroacetonitrile	
Dibromoacetonitrile	
Dichloroacetonitrile	
Trichloroacetonitrile	
Haloketones (HK)	
1,1-Dichloro-2-Propanone	
1,1,1-Trichloro-2-Propanone	
Heptachlor	
Heptachlor Epoxide	
Hexachlorobutadiene	
Hexachlorocyclopentadiene	
Lindane	
Methoxychlor	
Pentachlorophenol	

Rated Service Capacity: 500 gal      Rated Service Flow: 1.5 gpm

Do not use where water is microbiologically unsafe or with water of unknown quality, except that systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.