

# Performance Data Sheet



## Model WHED20 Drinking Water Filter

**IMPORTANT NOTICE:** Read this Performance Data Sheet and compare the capabilities of this unit with your actual water treatment needs. It is recommended that, before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs. This filter system is designed to be used for the reduction of the performance claims listed below. Do not use where water 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 water that may contain filterable cysts. While testing was performed under standard laboratory conditions, actual performance of the system may vary based on local water conditions. Some or all of the

contaminants reduced by this unit may not be in your water supply. See Use and Care Manual for further instructions on filter cartridge replacement, system installation, operating procedures, and warranty. The maintenance instructions must be followed for the product to perform as indicated below.

### Performance Claims

Contaminant	Required Influent Level (mg/L) <sup>2</sup>	NSF Max. Permissible Eff. Level (mg/L) <sup>2</sup>	Average Influent Level (mg/L) <sup>2</sup>	Avg. / Max. Effluent Level (mg/L) <sup>2</sup>	Avg. / Min. Percent Removal	EPA <sup>1</sup> MCL (mg/L) <sup>2</sup>
Cyst	≥50000 #/mL <sup>4,5</sup>	99.95% <sup>3</sup>	93,000#/mL <sup>4</sup>	<1 / <4 #/mL <sup>4</sup>	99.99 / 99.99	None <sup>7</sup>
Lead @ pH 6.5	0.15 ± 10%	0.010	0.152	0.001/0.001	99.3 / 99.3	0.015
Lead @ pH 8.5	0.15 ± 10%	0.010	0.150	0.001 / 0.001	99.3 / 99.3	0.015
Methyl tert-Butyl Ether (MTBE)	0.015 ± 20%	0.005	0.01467	0.0005 / 0.0005	96.2 / 96.2	None <sup>6</sup>
<b>Substance</b>						
Chlorine Taste, and Odor	2.0 ± 10%	50% <sup>3</sup>	2.0	0.05 / 0.08	97.5 / 96.2	None <sup>6</sup>
<b>VOG Reduction<sup>7</sup></b>						
Chloroform	0.30 ± 10%	95% <sup>3</sup>	0.320	0.0005 / 0.0005	99.8 / 99.8	0.080

<sup>1</sup> EPA MCL means Environmental Protection Agency Maximum Contaminant Level as required under the Safe Drinking Water Act.

<sup>2</sup> mg/L means Milligrams Per Liter, which is equivalent to parts per million (PPM).

<sup>3</sup> NSF minimum percent reduction requirement. Acceptance level for this substance is based on percent reduction rather than maximum effluent concentration.

<sup>4</sup> #/mL means particles per milliliter.

<sup>5</sup> Microspheres was used as a surrogate

<sup>6</sup> The EPA has not determined a MCL for this chemical.

<sup>7</sup> Chloroform was used as a surrogate for the reduction of chemicals specified in the Organic Chemicals Reduced by Chloroform Surrogate Testing table.

### Organic Chemicals Reduced by Chloroform Surrogate Testing

Contaminant	Average <sup>1</sup> Influent (µg/L) <sup>2</sup>	Maximum Effluent (µg/L) <sup>2</sup>	Percent Removal	EPA MCL (µg/L) <sup>2</sup>	Contaminant	Average <sup>1</sup> Influent (µg/L) <sup>2</sup>	Maximum Effluent (µg/L) <sup>2</sup>	Percent Removal	EPA MCL (µg/L) <sup>2</sup>
Alachlor	50	1.0 <sup>3</sup>	>98	2.0	Haloketones (HK):				NA
Atrazine	100	3.0 <sup>3</sup>	>97	3.0	1,1-dichloro-2-propanone	7.2	0.1 <sup>4</sup>	99	NA
Benzene	81	1.0 <sup>3</sup>	99	5.0	1,1,1-trichloro-2-propanone	8.2 <sup>6</sup>	0.3 <sup>4</sup>	96	NA
Carbofuran	190	1.0 <sup>3</sup>	>99	40	Heptachlor	25	0.01 <sup>3</sup>	>99	0.4
Carbon Tetrachloride	78	1.8 <sup>4</sup>	98	5.0	Heptachlor Epoxide	10.7 <sup>6</sup>	0.2 <sup>6</sup>	98	0.2
Chlorobenzene	77	1.0 <sup>3</sup>	99	100	Hexachlorobutadiene	44	1.0 <sup>3</sup>	98	NA
Chloropicrin	15	0.2 <sup>4</sup>	99	NA	Hexachlorocyclopentadiene	60	0.002 <sup>3</sup>	>99	50
2,4-D	110	1.7 <sup>4</sup>	98	70	Lindane	55	0.01 <sup>3</sup>	>99	0.2
Dibromochloropropane (DBCP)	52	0.02 <sup>3</sup>	>99	0.2	Methoxychlor	50	0.1 <sup>3</sup>	>99	40
o-Dichlorobenzene	80	1.0 <sup>3</sup>	99	600	Pentachlorophenol	96	1.0 <sup>3</sup>	99	1.0
p-Dichlorobenzene	40	1.0 <sup>3</sup>	98	75	Simazine	120	4.0 <sup>3</sup>	97	4.0
1,2-Dichloroethane	88	4.8 <sup>5</sup>	95 <sup>5</sup>	5.0	Styrene	150	0.5 <sup>3</sup>	>99	100
1,1-Dichloroethylene	83	1.0 <sup>3</sup>	99	7.0	1,1,2,2-Tetrachloroethane	81	1.0 <sup>3</sup>	99	NA
cis-1,2-Dichloroethylene	170	0.5 <sup>3</sup>	>99	70	Tetrachloroethylene	81	1.0 <sup>3</sup>	99	5.0
trans-1,2-Dichloroethylene	86	1.0 <sup>3</sup>	99	100	Toluene	78	1.0 <sup>3</sup>	99	1,000
1,2-Dichloropropane	80	1.0 <sup>3</sup>	99	5.0	2,4,5-TP (silvex)	270	1.6 <sup>3</sup>	99	50
cis-1,3-Dichloropropylene	79	1.0 <sup>3</sup>	99	NA	Tribromoacetic acid	42	1.0 <sup>3</sup>	98	NA
Dinoseb	170	0.2 <sup>4</sup>	99	7.0	1,2,4-Trichlorobenzene	160	0.5 <sup>3</sup>	>99	70
Endrin	53	0.59 <sup>4</sup>	99	2.0	1,1,1-Trichloroethane	84	4.6 <sup>4</sup>	95	200
Ethylbenzene	88	1.0 <sup>3</sup>	99	700	1,1,2-Trichloroethane	150	0.5 <sup>3</sup>	>99	5.0
Ethylene Dibromide (EDB)	44	0.02 <sup>3</sup>	>99	0.05	Trichloroethylene	180	1.0 <sup>3</sup>	>99	5.0
Haloacetonitriles (HAN):				NA	Trihalomethanes (includes):	300	15	95	80
Bromochloroacetonitrile	22	0.5 <sup>4</sup>	98	NA	Chloroform (surrogate chemical)				
Dibromoacetonitrile	24	0.6 <sup>4</sup>	98	NA	Bromoform				
Dichloroacetonitrile	9.6	0.2 <sup>4</sup>	98	NA	Bromodichloromethane				
Trichloroacetonitrile	15	0.3 <sup>4</sup>	98	NA	Chlorodibromomethane				
					Xylenes (total)	70	1.0 <sup>3</sup>	99	10,000

<sup>1</sup> Influent challenge levels are average influent concentrations determined in surrogate qualification testing.

<sup>2</sup> µg/L means Micrograms Per Liter.

<sup>3</sup> Maximum product water level was not observed but was set at the detection limit of the analysis.

<sup>4</sup> Maximum product level is set at a value determined in surrogate qualification testing.

<sup>5</sup> Chemical reduction percent and maximum product water level calculated at chloroform 95% breakthrough point as determined in surrogate qualification testing.

<sup>6</sup> The surrogate test results for heptachlor Epoxide demonstrated a 98% reduction. These data were used to calculate an upper occurrence concentration, which would produce a maximum product water level at the MCL.

**General Information**

**Installation Requirements**

This filter improves the taste and odor and reduces many chemical contaminants in drinking water. The faucet indicator monitors the length of time the filter has been installed and will flash amber continuously; indicating the filters and battery need to be replaced. This system has been tested according to NSF/ANSI 42 and 53 for the reduction of the substances listed on the previous page. 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. The testing was performed using spiked tap water at a flow rate of 0.5 GPM (1.9 L/min.), pH of 7.5 ± 0.5, pressure of 60 PSIG, and temperature of 68 ± 5°F.

Pressure Range .....30-125 psig (2.1-8.8 kg/cm<sup>2</sup>)  
 Temperature Range .....40-100°F (5-38°C)  
 Service Flow Rate.....0.5 GPM (1.9 LPM)  
 Service Life .....270 Gallons (1,022 Liters)

**Maintenance**

Refer to Use and Care Manual for warranty and further details on installation and maintenance. Cartridges should be replaced every 270 gallons or six months, whichever comes first. For replacement elements, call 1-866-986-3223 or contact your nearest Lowe's store. Replacement filter prices will vary. Current pricing replacement filters WHEEDF I and II is approximately \$30.00 to \$50.00 per filter element.

**Manufactured and warranted by:**  
**Ecodyne Water Systems**  
**1890 Woodlane Drive**  
**Woodbury, MN 55125**



System Tested and Certified by NSF International against NSF/ANSI Standard 42 for the reduction of chlorine, taste and odor and Standard 53 for the reduction of cyst, lead, MTBE, and VOCs.

**FOR IOWA ONLY**

All sales in Iowa require the following signature before consummation of sale. These signatures must be retained by seller/renter for 2 years minimum.

Buyer/Renter \_\_\_\_\_ Date \_\_\_\_\_  
 Seller \_\_\_\_\_ Date \_\_\_\_\_  
 Sellers Address \_\_\_\_\_  
 Sellers Phone # \_\_\_\_\_

**Product: Whirlpool Drinking Water Filter Model WHED20**

State of California  
 Department of Health Services  
**Water Treatment Device**  
**Certificate Number**  
 05 - 1768  
 Date Issued: December 19, 2005

Trademark/Model Designation	Replacement Element(s)
Whirlpool WHED20	WHEEDF
Manufacturer: Ecodyne Water Systems LLC	

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
Cysts <b>Organic Contaminants</b> MTBE VOCs Alachlor Atrazine Benzens Carbofurin Carbon Tetrachloride Chlorobenzene Chloropicrin 2,4-D DBCP o-Dichlorobenzene p-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethylene cis-1,2-Dichloroethylene trans-1,2-Dichloroethylene 1,2-Dichloropropane cis-1,3-Dichloropropylene Dinoseb	Lead Endrin Ethylbenzene EDH Halooacetnitriles (HAN) Bromochloroacetnitrile Dibromoacetnitrile Dichloroacetnitrile Trichloroacetnitrile Halo ketones (HK) 1,1-Dichloro-2-Propanone 1,1,1-Trichloro-2-Propanone Heptachlor Heptachlor Epoxide Hexachlorobutadiene Hexachlorocyclopentadiene Lindane Methoxychlor Pentachlorophenol
	Simazine Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene 2,4,5-TP (Silvex) Tribromoacetic Acid 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Trihalomethanes (THMs) Bromodichloromethane Bromoform Chloroform Chlorodibromomethane Xylenes

Rated Service Capacity: 270 gals      Rated Service Flow: 0.6 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.