# Performance Data Sheet

Model WHEMB40 WATER PURIFIER

**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 for the treatment of water that is visually contaminated (cloudy) or has an obvious contamination source, such as contamination by raw sewage. 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 Installation and Operation 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 (µg/L)[2] | NSF Max. Permissible Eff. Level (µg/L)[2] | Average Influent Level (µg/L)[2] | Avg. / Max. Effluent Level (µg/L)[2] | Avg. / Min. Percent Removal | EPA[1] MCL (µg/L)[2] |
|---|---|---|---|---|---|---|
| Lead @ pH 6.5 | 150 ± 10% | 10 | 150 | 1/1 | 99.3 / 99.3 | 15 |
| Lead @ pH 8.5 | 150 ± 10% | 10 | 140 | 1/1 | 99.3 / 99.3 | 15 |
| **Substance** | | | | | | |
| Chlorine Taste, and Odor | 2000 ± 10% | 50%[3] | 1900 | 50 / 50 | 97.4 / 97.2 | None[4] |
| Particulate, Class I (0.5 to <1 micron)[5] | 10,000[5] | 85%[3] | 6,000,000[5] | 5,567/28,000[5] | 99.9/99.6 | None[4] |
| **VOC Reduction**[6] | | | | | | |
| Chloroform | 300 ± 10% | 95% | 300 | 0.5 / 0.5 | 99.8 / 99.7 | 15 |

[1] EPA MCL means Environmental Protection Agency Maximum Contaminant Level as required under the Safe Drinking Water Act.
[2] µg/L means Micrograms per Liter, which is equivalent to parts per billion (PPB).
[3] NSF minimum percent reduction requirement. Acceptance level for this substance is based on percent reduction rather than maximum effluent concentration.
[4] The EPA has not determined an MCL for this chemical. [5] Particulate Class I reported in particles per milliliter or mL
[6] 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[1] Influent (µg/L)[2] | Maximum Effluent (µg/L)[2] | Percent Removal | EPA MCL (µg/L)[2] |
|---|---|---|---|---|
| Alachlor | 50 | 1.0[3] | >98 | 2.0 |
| Atrazine | 100 | 3.0[3] | >97 | 3.0 |
| Benzene | 81 | 1.0[3] | 99 | 5.0 |
| Carbofuran | 190 | 1.0[3] | >99 | 40 |
| Carbon Tetrachloride | 78 | 1.8[4] | 98 | 5.0 |
| Chlorobenzene | 77 | 1.0[3] | 99 | 100 |
| Chloropicrin | 15 | 0.2[4] | 99 | NA |
| 2,4-D | 110 | 1.7[4] | 98 | 70 |
| Dibromochloropropane (DBCP) | 52 | 0.02[3] | >99 | 0.2 |
| o-Dichlorobenzene | 80 | 1.0[3] | 99 | 600 |
| p-Dichlorobenzene | 40 | 1.0[3] | 98 | 75 |
| 1,2-Dichloroethane | 88 | 4.8[5] | 95[5] | 5.0 |
| 1,1-Dichloroethylene | 83 | 1.0[3] | 99 | 7.0 |
| cis-1,2-Dichloroethylene | 170 | 0.5[3] | >99 | 70 |
| trans-1,2-Dichloroethylene | 86 | 1.0[3] | 99 | 100 |
| 1,2-Dichloropropane | 80 | 1.0[3] | 99 | 5.0 |
| cis-1,3-Dichloropropylene | 79 | 1.0[3] | 99 | NA |
| Dinoseb | 170 | 0.2[4] | 99 | 7.0 |
| Endrin | 53 | 0.59[4] | 99 | 2.0 |
| Ethylbenzene | 88 | 1.0[3] | 99 | 700 |
| Ethylene Dibromide (EDB) | 44 | 0.02[3] | >99 | 0.05 |
| Haloacetonitriles (HAN): | | | | |
| Bromochloroacetonitrile | 22 | 0.5[4] | 98 | NA |
| Dibromoacetonitrile | 24 | 0.6[4] | 98 | NA |
| Dichloroacetonitrile | 9.6 | 0.2[4] | 98 | NA |
| Trichloroacetonitrile | 15 | 0.3[4] | 98 | NA |

| Contaminant | Average[1] Influent (µg/L)[2] | Maximum Effluent (µg/L)[2] | Percent Removal | EPA MCL (µg/L)[2] |
|---|---|---|---|---|
| Haloketones (HK): | | | | |
| 1,1-dichloro-2-propanone | 7.2 | 0.1[4] | 99 | NA |
| 1,1,1-trichloro-2-propanone | 8.2[6] | 0.3[4] | 96 | NA |
| Heptachlor | 25 | 0.01[3] | >99 | 0.4 |
| Heptachlor Epoxide | 10.7[6] | 0.2[6] | 98 | 0.2 |
| Hexachlorobutadiene | 44 | 1.0[3] | 98 | NA |
| Hexachlorocyclopentadiene | 60 | 0.002[3] | >99 | 50 |
| Lindane | 55 | 0.01[3] | >99 | 0.2 |
| Methoxychlor | 50 | 0.1[3] | >99 | 40 |
| Pentachlorophenol | 96 | 1.0[3] | 99 | 1.0 |
| Simazine | 120 | 4.0[3] | 97 | 4.0 |
| Styrene | 150 | 0.5[3] | >99 | 100 |
| 1,1,2,2-Tetrachloroethane | 81 | 1.0[3] | 99 | NA |
| Tetrachloroethylene | 81 | 1.0[3] | 99 | 5.0 |
| Toluene | 78 | 1.0[3] | 99 | 1,000 |
| 2,4,5-TP (silvex) | 270 | 1.6[3] | 99 | 50 |
| Tribromoacetic acid | 42 | 1.0[3] | 98 | NA |
| 1,2,4-Trichlorobenzene | 160 | 0.5[3] | >99 | 70 |
| 1,1,1-Trichloroethane | 84 | 4.6[4] | 95 | 200 |
| 1,1,2-Trichloroethane | 150 | 0.5[3] | >99 | 5.0 |
| Trichloroethylene | 180 | 1.0[3] | >99 | 5.0 |
| Trihalomethanes (includes): | 300 | 15 | 95 | 80 |
| Chloroform (surrogate chemical) | | | | |
| Bromoform | | | | |
| Bromodichloromethane | | | | |
| Chlorodibromomethane | | | | |
| Xylenes (total) | 70 | 1.0[3] | 99 | 10,000 |

[1] Influent challenge levels are average influent concentrations determined in surrogate qualification testing. [2] µg/L means Micrograms Per Liter.
[3] Maximum product water level was not observed but was set at the detection limit of the analysis. [4] Maximum product level is set at a value determined in surrogate qualification testing.
[5] Chemical reduction percent and maximum product water level calculated at chloroform 95% breakthrough point as determined in surrogate qualification testing.
[6] 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.

Cyst, virus, and bacteria reduction tested by BioVir Labs in accordance with the EPA and State of California Department of Public Health test protocol, per the certificate following this data sheet.

| Substance | Log Reduction | % Reduction |
|---|---|---|
| **Cyst** | 3.5 | 99.95% |
| **Virus** | 4 | 99.99% |
| **Bacteria** | 6 | 99.9999% |

**General Information**

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*7313624*

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 0.74 GPM (2.8 L/min.), pH of 7.5 ± 0.5, pressure of 60 PSIG, and temperature of 68 ± 5°F. ® Registered trademark/TM Trademark of Whirlpool, U.S.A.

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

**Installation Requirements**

| | |
|---|---|
| Pressure Range | 30-100 psig (207-689 kPa) |
| Temperature Range | 40-100°F (4-38°C) |
| Service Flow Rate | 0.74 GPM (2.8 LPM) |
| Service Life | 350 Gallons (1,325 Liters) |

**Maintenance**

Refer to Installation and Operation Manual for warranty and further details on installation and maintenance. Cartridges should be replaced every 350 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 for replacement filter pack WHEMBF0 is approximately $70.00 to $100.00.

System Tested and Certified by NSF International against NSFI/ANSI Standard 42 and 53 for Chlorine Taste and Odor, VOC, Lead, Class I Particulate and for material requirements.

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**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 Water Purifier Model WHEMB40**

State of California
Department of Public Health

Water Treatment Device
Certificate Number
11 - 2054

Date Issued: March 8, 2011

| Trademark/Model Designation | Replacement Element(s) |
|---|---|
| Whirlpool - WHEMB 40 | WHEMBF |

**Manufacturer:** KX Technologies 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**
- Cysts (protozoan)
- Bacteria
- Virus

**Organic Contaminants**
- VOCs
  - Alachlor
  - Atrazine
  - Benzene
  - Carbofuran
  - 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
  - Endrin
  - Ethylbenzene
  - EDB
  - Haloacetonitriles (HAN)
    - 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
  - 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

**Inorganic/Radiological Contaminants**
- Lead

**Rated Service Capacity:** 350 gals **Rated Service Flow:** 0.74 gpm

**Do not use for the treatment of water that is visually contaminated (cloudy) or has an obvious contamination source, such as contamination by raw sewage.**

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