

Reverse Osmosis Systems

Reduction Rates



CONTAMINANT REDUCTION CAPABILITIES

Important Notice: Please note that the contaminants listed below are not necessarily in your water and that while testing was performed under standard laboratory conditions, actual performance may vary. It is recommended that before purchasing a water treatment unit, the water supply is tested to determine actual water treatment needs. Kineticco reserves the right to amend details/specification without notice.

K5 Drinking Water Station

| Name | Reduction % |
|-------------------------|-------------|
| Pentavalent Arsenic | 99.3 |
| Barium | 98.5 |
| Hexavalent Chromium | 97.7 |
| Trivalent Chromium | 99.0 |
| Cadmium | 98.1 |
| Aesthetic Chlorine | 97.3 |
| Copper | 98.7 |
| Flouride | 95.5 |
| MTBE | 94.6 |
| Radium 226/228 | 80.0 |
| Selenium | >94.0 |
| Lead | 98.1 |
| Cyst (3-4 micron) | >99.9 |
| Turbidity | 99.3 |
| *VOCs (with VOC Filter) | 99.5 |

AquaKinetic® A200 DWS

| Name | Reduction % |
|---------------------|-------------|
| Pentavalent Arsenic | 99.7 |
| Barium | 98.7 |
| Hexavalent Chromium | 98.0 |
| Trivalent Chromium | 99.0 |
| Cadmium | 99.7 |
| Aesthetic Chlorine | 97.2 |
| Copper | 98.7 |
| Flouride | 96.4 |
| Radium 226/228 | 80.0 |
| Selenium | 99.0 |
| Lead | 97.3 |
| TDS | 92.4 |
| Cyst (3-4 micron) | >99.99 |
| Turbidity | 99.8 |

Typical average reduction rates for thin film membranes. All results are averaged from actual tests performed on water at 60 psi and 77°F.

| *VOCs INCLUDE | % Reduction | *VOCs INCLUDE | % Reduction | *VOCs INCLUDE | % Reduction |
|-----------------------------|-------------|-------------------------------|-------------|------------------------------|-------------|
| alachlor | >98 | endrin | 99 | simazine | >97 |
| atrazine | >97 | ethylbenzene | >99 | styrene | >99 |
| benzene | >99 | ethylene dibromide (EDB) | >99 | 1, 1, 2, 2-tetrachloroethane | >99 |
| carbofuran | >99 | haloacetonitriles (HAN) | | tetrachloroethylene | >99 |
| carbon tetrachloride | 98 | bromochloroacetonitrile | 98 | toluene | >99 |
| chlorobenzene | >99 | dibromoacetonitrile | 98 | 2, 4, 5-TP (silvex) | 99 |
| chloropicrin | 99 | dichloroacetonitrile | 98 | tribromoacetic acid | >98 |
| 2, 4-D | 98 | trichloroacetonitrile | 98 | 1, 2, 4-trichlorobenzene | >99 |
| dibromochloropropane (DBCP) | >99 | haloketones (HK) | | 1, 1, 1-trichloroethane | 95 |
| o-dichlorobenzene | >99 | 1, 1-dichloro-2-propanone | 99 | 1, 1, 2-trichloroethane | >99 |
| p-dichlorobenzene | >98 | 1, 1, 1-trichloro-2-propanone | 96 | trichloroethylene | >99 |
| 1, 2-dichloroethane | 95 | heptachlor | >99 | trihalomethanes (TTHM) | |
| 1, 1-dichloroethylene | >99 | heptachlor epoxide | 98 | bromodichloromethane | 95 |
| cis-1,2-dichloroethylene | >99 | hexachlorobutadiene | >98 | bromofom | 95 |
| trans-1,2-dichloroethylene | >99 | hexachlorocyclopentadiene | >99 | chlorodibromomethane | 95 |
| 1, 2-dichloropropane | >99 | lindane | >99 | chloroform | 95 |
| cis-1, 3-dichloropropylene | >99 | methoxychlor | >99 | xylenes | >99 |
| dinoseb | 99 | pentachlorophenol | >99 | | |



The Kineticco K5 Drinking Water Station is tested and certified by WQA against the requirements of NSF/ANSI Standard 42 for the reduction of aesthetic chlorine, taste and odor, Standard 53 for reduction of MTBE, and Standard 58 for the reduction of pentavalent arsenic, barium, radium 226/228, cadmium, VOC, copper, cysts (including oocysts of cryptosporidium and cysts of giardia and entamoeba), fluoride, hexavalent chromium, lead, nitrate/nitrite (with test kit Part No. 7329), selenium, TDS, trivalent chromium and turbidity. (See performance data sheet for individual contaminants and reduction performance.) 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 water that may contain filterable cysts. The Kineticco K5 Drinking Water Station is acceptable for treatment of influent concentrations of no more than 27 mg/L nitrate and 3 mg/L nitrite in combination measured as N and are certified for nitrate/nitrite reduction only for water supplies with a pressure of 280 kPa (40 psi) or greater. WQA certified our product performance, and reviewed our manufacturing facility and procedures to assure product consistency and integrity. They also assure that our literature accurately reflects our product capabilities. The system and installation must comply with state/provincial and local laws and regulations.

The K5 system with the Purefecta Virus/Bacteria Guard cartridge is Tested and Certified by WQA against NSF P231-Microbiological Water Purifiers based on recommendations set forth in the USEPA Guide Standard and Protocol for Microbiological Water Purifiers (OPP Task Force Report, 1987). The K5 with the Purefecta cartridge is not intended to convert wastewater or raw sewage into drinking water.

Conforms to NSF/ANSI 58 for pentavalent arsenic reduction. See performance data sheet and Arsenic facts sheet section for an explanation of reduction performance. Also conforms to CSA Standard B483.1—Drinking Water Treatment Systems.

The AquaKinetic® A200 Drinking Water System is tested and certified by WQA against the requirements of NSF/ANSI Standard 58 for the reduction of pentavalent arsenic, barium, cadmium, hexavalent chromium, trivalent chromium, copper, cyst, flouride, lead, radium 226/228, selenium, TDS and turbidity. In addition, the A200 is tested and certified by WQA against the requirements of NSF/ANSI Standard 42 for the reduction of aesthetic chlorine, taste and odor. Also conforms to CSA Standard B483.1—Drinking Water Treatment Systems.



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