

PERFORMANCE DATA SHEET

Pall/Kinetico Purefecta® Drinking Water Purifier



The Pall/Kinetico Purefecta Drinking Water Purifier is a multi-barrier system using five state-of-the-art components with advanced technology designed to meet the requirements in the USEPA's Guide Standard and Protocol for Water Purifiers (OPP Task Force Report, 1987). It has been independently tested and certified for the removal of greater than 99.99% of waterborne viruses, greater than 99.99999% of waterborne bacteria and greater than 99.999% of waterborne protozoa/cysts from drinking water. The Purefecta Drinking Water Purifier is tested and/or certified by:

	<p>The Pall/Kinetico Purefecta Drinking Water Purifier is certified by NSF International against NSF P231 – Microbiological Water Purifiers based on the recommendations set forth in the USEPA's Guide Standard and Protocol for Testing Microbiological Water Purifiers (OPP Task Force Report, 1987).</p> <p>The Pall/Kinetico Purefecta Drinking Water Purifier is tested and certified by NSF International against NSF/ANSI Standards 42, 53 and 58 for the reduction of substances specified on the Manufacturer's Performance Data Sheet.</p>
	<p>The Pall/Kinetico Purefecta Drinking Water Purifier was tested by UL and found to meet all the requirements of the USEPA's Guide Standard and Protocol for Testing Microbiological Water Purifiers (OPP Task Force Report, 1987) as interpreted by UL specifically for the Purefecta product.</p>
	<p>The Pall/Kinetico Purefecta Drinking Water Purifier was verified by the Water Quality Association (WQA) and found to meet all the requirements of the USEPA's Guide Standard and Protocol for Testing Microbiological Water Purifiers (OPP Task Force Report, 1987) as interpreted by WQA specifically for the Purefecta product.</p> <p>The Pall/Kinetico Purefecta Drinking Water Purifier is certified by WQA against NSF/ANSI Standards 42, 53 and 58 for the reduction of substances specified on the Manufacturer's Performance Data Sheet.</p>
	<p>The Pall/Kinetico Purefecta Drinking Water Purifier was tested by BioVir Laboratories and found to meet all the requirements of the USEPA's Guide Standard and Protocol for Testing Microbiological Water Purifiers (OPP Task Force Report, 1987) as interpreted by BioVir Laboratories specifically for the Purefecta product.</p>

In addition, the materials and components used in the construction of the Purefecta have been tested by NSF International to assure that levels of extractable contaminants do not exceed established limits set by NSF/ANSI Standard 58. The Purefecta has also been evaluated under NSF/ANSI Standard 58 that it is designed and constructed so that its intended purpose can be accomplished when operated in accordance with the manufacturer's instructions.

IMPORTANT

- This system is not intended to convert wastewater or raw sewage into drinking water
- Installation of this system must comply with state and local plumbing laws.
- The Purefecta must be installed by a properly trained installer, ONLY. If installed by an untrained individual, all warranties and claims are void.
- Provisions for an anti-siphon air gap should be part of the installation to prevent a cross connection between the water system and the waste system.
- If a noticeable change in product water production, taste or odor occurs, contact your authorized Kinetico dealer.
- Do not use on water that contains more than 0.1ppm iron, more than 10 gpg hardness, more than 3000 ppm TDS or falls outside the pH range of 3 to 11. Systems with sediment prefilters should not be used on water that contains chlorine..

General Specifications

Minimum/Maximum Operating Temperature: 2°C–38°C (35°F–100°F)
Ambient Temperature, Operating Conditions: 32°C/90°F
Minimum/Maximum Operating Pressure: 275.6–689.5 kPa (40–100 psi)
Discharge Water/Product Water Ratio: 3 to 1
Typical Product Water Production Rate (Daily Production Rate): 74.8 L/day (19.8 gpd)
Efficiency Rating¹: 25.94% – Recovery Rating²: 40.25%

1 - Efficiency Rating means the percentage of the influent water to the system that is available to the user as reverse osmosis treated water under operating conditions that approximate typical daily usage.

2 - Recovery Rating means the percentage of the influent water to the membrane of the system that is available to the user as reverse osmosis treated water when the system is operated without a storage tank or when the storage tank is bypassed.

REPLACEMENT CARTRIDGES

Prefilter		RO Membrane	Biofilter Cartridge	MACGuard™ Postfilter
CHLORINATED WATER SUPPLY (City Water or Chlorinated Well)	NON-CHLORINATED WATER SUPPLY	75 gpd/285 Lpd RO Membrane (Part No. 10501)	Pall Biofilter Cartridge (Part No. 10603)	ALL WATER SUPPLIES (CITY WATER OR WELL)
High Capacity Carbon/Sediment Prefilter (Part No. 9461A)	Sediment Prefilter (Part No. 9309A)			Taste, Odor & VOC Postfilter (Part No. 9307A)

PERFORMANCE and MAINTENANCE

The Purefecta system contains replaceable treatment components critical to the effective reduction of water-borne pathogens and total dissolved solids (TDS). The product water should be tested periodically to verify that the system is performing satisfactorily. This system has been tested and verified by NSF International and UL that it will decrease the discharge of product water by 50% or greater at 500 gallons. This shut down prevents the effluent of certain contaminants from exceeding the EPA's maximum contaminant level under normal operating conditions and is designed to trigger recommended system maintenance. To restore service, replace the prefilter cartridge, biofilter cartridge and postfilter cartridge. See the chart on the previous page to select cartridges for your system. These cartridges are available through your local Kinetico dealer. You may choose to have the product water tested at this time to verify performance. For operation and maintenance information, consult the owner's manual. Installation instructions are available for review from your authorized Kinetico dealer.

WARRANTY COVERAGE

The Purefecta system carries a limited manufacturer's warranty. If Purefecta is installed in conjunction with a Kinetico Water Conditioner, the warranty covers the parts of the Purefecta for seven years and the reverse osmosis membrane for seven years. If Purefecta is installed without a Kinetico Water Conditioner, system parts are covered for seven years and the membrane is covered for four years. For complete details, see the actual warranty. Influent water condition limitations must not be exceeded or the warranty will be void.

CONTAMINANT REDUCTION CAPABILITIES

IMPORTANT NOTICE! Read this performance data sheet and compare the capabilities of Purefecta with your actual water treatment needs. 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. Kinetico recommends that before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs.

This system has been tested by the following:

NSF International against NSF P231 – Microbiological Water Purifiers based on the recommendations set forth in the USEPA's Guide Standard and Protocol for Testing Microbiological Water Purifiers (OPP Task Force Report, 1987) and against NSF/ANSI Standards 42, 53 and 58, for reduction of the substances listed on the following page.

Underwriters Laboratories (UL) tested and found the Purefecta meet all the requirements of the USEPA's Guide Standard and Protocol for Testing Microbiological Water Purifiers (OPP Task Force Report, 1987) as interpreted by UL specifically for the Purefecta product.

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 the above listed standards. The chart on the following page contains the following information based on NSF and UL test results:

- A list of substances that will be reduced by the Purefecta Drinking Water Purifier
- The percent of reduction that can be expected
- Conditions under which the units were tested (pressure, pH and temperature)
- Influent and effluent levels of contaminated tested water
- The EPA's maximum contaminant level (MCL)



The Pall/Kinetico Drinking Water Purifier is tested and certified under NSF/ANSI Standard 58 for the reduction of pentavalent arsenic, barium, cadmium, copper, cysts (including oocysts of cryptosporidium and cysts of giardia and entamoeba), fluoride, hexavalent chromium, lead, nitrite/nitrate (with test kit, part no. 7329), radium 226/228, selenium, total dissolved solids, turbidity and trivalent chromium and NSF/ANSI Standard 42 for aesthetic chlorine, taste and odor reduction. It is also certified to NSF/ANSI Standard 53 for MTBE and VOC reduction.

U.S. EPA Establishment # 080986-OH-001.

Microbiological Challenges

CHALLENGE ORGANISM	Number of Samples		Geometric Mean				Min. Effluent	Max. Effluent	Variation
	Influent	Effluent	Influent	Effluent	Reduction				
					%	Log			
Klebsiella Terrigena Cfu/100 ml	6*	24*	5.3 x 10 ⁷	1.6*	>99.99999*	7.5*	<1*	30*	29*
	12**	24**	2.9 x 10 ⁸	<1.0**	>99.99999**	8.2**			
Polio Lsc1 Pfu/L	6*	21*	7.83 x 10 ⁶	<200*	>99.99*	4.6*	<100*	<200*	100*
	12**	24**	2.3 x 10 ⁵	<11**	>99.99**	4.3**			
Rotavirus Sa-11 Pfu/L	6*	24*	2.0 x 10 ⁷	<200*	>99.99*	5.0*	<100*	<200*	100*
	12**	24**	2.3 x 10 ⁵	<11**	>99.99**	4.3**			
Cryptosporidium Cysts/L	6*	19*	7.6 x 10 ⁵	1.7*	>99.999*	5.6*	<1*	28*	27*
	12**	24**	1.9 x 10 ⁴	<4.0**	>99.99**	4.0**			
MS-2 Coliphage Pfu/mL	6*	21*	3.49 x 10 ⁵	<1*	>99.999*	5.5*	<1*	<1*	0*
	12**	24**	2.7 x 10 ⁷	<1 x 10 ³ **	>99.99**	4.4**			

*NSF International Results

** UL Results

Specific Contaminant Challenges

SUBSTANCE	Test Pressure (psf)	Flow Rate (gpm)	Temperature (°F)	pH	Average Influent Level (mg/L)	Average Effluent Level (mg/L)	Maximum Effluent Level (mg/L)	Average Percent Reduction	Minimum Percent Reduction	USEPA MCL (mg/L)	Influent Challenge Concentration (mg/L)	Permissible Product Water Concentrations (mg/L)	Maximum Requirement	Percent Reduction
Pentavalent Arsenic	50	0.75	77	5.89	0.30	<0.001	0.004	99.7	98.5	0.010	0.30 ± 10%	0.010	----	----
Barium	50	0.75	77	5.81	10.2	0.13	0.3	97.9	----	2.0	10.0 ± 10%	2.0	----	----
Hexavalent Chromium	50	0.75	77	5.89	0.3	0.006	0.03	91.3	----	.05	0.3±10%	0.1	----	----
Trivalent Chromium	50	0.75	77	5.81	0.30	0.003	0.01	94.1	----	.05	0.3±10%	0.1	----	----
Cadmium	50	0.75	77	7.53	0.031	0.0001	0.0009	99.7	----	0.005	0.03 ± 10%	0.005	----	----
Aesthetic Chlorine	60	0.75	67.6	7.55	1.8	0.04	0.10	97.7	94.4	----	2.0±10%	----	≥50%	----
Copper	50	0.75	77	7.51	3.0	0.04	0.04	99.0	----	----	3.0±10%	1.3	----	----
Fluoride	50	0.75	77	7.53	8.0	0.33	0.47	95.9	96	4.0	8.0±10%	1.5	----	----
*MTBE methyl tertiary butyl ether	60	0.75	65	7.68	0.015	0.0006	0.0012	95.7	92	----	0.015±20%	0.005	----	----
Nitrate/Nitrite both as N	50	0.75	75.2	7.75	----	----	----	----	----	0.05	30.0 ± 10%	10.0	----	----
Nitrate as N	50	0.75	75.2	7.75	28	5.4	7.8	80.7	72.1	2	27 ± 10%	10.0	----	----
Nitrite as N	50	0.75	75.2	7.75	3.1	0.55	0.67	82.3	78.4	0.05	3.0 ± 10%	1.0	----	----
Radium 226/228	50	0.75	77	5.81	25pCi/L	5 pCi/L	5	80	----	5 pCi/L	25pCi/L ±10%	5 pCi/L	----	----
Selenium	50	0.75	77	7.53	0.10	<0.001	<0.001	99.0	----	0.05	0.10 ± 10%	0.05	----	----
TDS ^A	50	0.75	77	7.93	765.7	82.2	89	89	89.3	500	750 ± 40mg/L	187	----	----
Lead	50	0.75	77	5.68	0.15	0.004	0.008	97.3	----	0.015	0.15± 10%	0.010	----	----
Cyst ^B	50	0.75	77	5.89	140000/ml	8/ml	20/ml	99.99	----	----	Min 50,000/mL	----	99.95%	----
Turbidity	50	0.75	69.8	7.52	81 NTU	0.15 NTU	0.27	99.8	97.9	----	11±1 NTU	0.5 NTU	----	----
VOCs ^C	60	0.75	66.8	7.90	0.29	0.0011	0.0037	99.6	98.7	----	----	----	95%	----

A - TDS is commonly comprised of calcium, magnesium, sodium, iron, manganese, bicarbonate, sulfate and carbonate

B - Cyst reduction includes oocysts of cryptosporidium and cysts of giardia and entamoeba. Cyst influent and effluent are measured in #/ml.

C - Chloroform was used as a surrogate for these chemicals per NSF/ANSI Standards 53 and 58.

D - This system has been tested for the treatment of water containing pentavalent arsenic (also known as As(V), As(+5), or arsenate) at concentrations of 0.30 mg/L or less. This system reduces pentavalent arsenic, but may not remove other forms of arsenic. This system is to be used on water supplies containing a detectable free chlorine residual or on water supplies that have been demonstrated to contain only pentavalent arsenic. Treatment with chloramine (combined chlorine) is not sufficient to ensure complete conversion of trivalent arsenic to pentavalent arsenic. Please see the Arsenic Facts section of this Data Sheet for further information.

VOCs Include:	USEPA MCL mg/L (ppm)	Influent Challenge Concentration mg/L (ppm)	Chemical Reduction Percent	Maximum Permissible Product Water Concentration mg/L (ppm)
alachlor	0.002	0.05	>98	0.001
atrazine	0.003	0.1	>97	0.003
benzene	0.005	0.081	>99	0.001
carbofuran	0.04	0.19	>99	0.001
carbon tetrachloride	0.005	0.078	98	0.0018
chlorobenzene	0.1	0.077	>99	0.001
chloropicrin	----	0.015	99	0.0002
2,4-D	0.07	0.11	98	0.0017
dibromochloropropane (DBCP)	0.0002	0.052	>99	0.00002
o-dichlorobenzene	0.6	0.08	>99	0.001
p-dichlorobenzene	0.075	0.04	>98	0.001
1,2-dichloroethane	0.005	0.088	95	0.0048
1,1-dichloroethylene	0.007	0.083	>99	0.001
cis-1,2-dichloroethylene	0.07	0.17	>99	0.0005
trans-1,2-dichloroethylene	0.1	0.086	>99	0.001
1,2-dichloropropane	0.005	0.08	>99	0.001
cis-1,3-dichloropropylene	----	0.079	>99	0.001
dinoseb	0.007	0.17	99	0.0002
endrin	0.002	0.053	99	0.00059
ethylbenzene	0.7	0.088	>99	0.001
ethylene dibromide (EDB)	0.00005	0.044	>99	0.00002
haloacetonitriles (HAN):				
bromochloroacetonitrile		0.022	98	0.0005
dibromoacetonitrile	----	0.024	98	0.0006
dichloroacetonitrile		0.0096	98	0.0002
trichloroacetonitrile		0.015	98	0.0003
haloketones (HK)				
1,1-dichloro-2-propanone	----	0.0072	99	0.0001
1,1,1-trichloro-2-propanone		0.0082	96	0.0003
heptachlor	0.0004	0.25	>99	0.00001
heptachlor epoxide	0.0002	0.0107	98	0.0002
hexachlorobutadiene	----	0.044	>98	0.001
hexachlorocyclopentadiene	0.05	0.06	>99	0.000002
lindane	0.0002	0.055	>99	0.00001
methoxychlor	0.04	0.05	>99	0.0001
pentachlorophenol	0.001	0.096	>99	0.001
simazine	0.004	0.12	>97	0.004
styrene	0.1	0.15	>99	0.0005
1,1,2,2-tetrachloroethane	----	0.081	>99	0.001
tetrachloroethylene	0.005	0.081	>99	0.001
toluene	1.0	0.078	>99	0.001
2,4,5- TP (silvex)	0.05	0.27	99	0.0016
tribromoacetic acid	----	0.042	>98	0.001
1,2,4-trichlorobenzene	0.07	0.16	>99	0.0005
1,1,1-trichloroethane	0.2	0.084	95	0.0046
1,1,2-trichloroethane	0.005	0.15	>99	0.0005
trichloroethylene	0.005	0.18	>99	0.001
trihalomethanes (surrogate chemical)	0.080	0.300	95	0.015
xylenes (total)	10.0	0.07	>99	0.001

Microbiological Contaminant Claims

The following is a list of waterborne pathogens that the Purefecta has been tested for, or are similar in size to those tested. The list of waterborne pathogens includes, but is not limited to:

<u>Virus</u>	<u>Bacteria</u>	<u>Protozoa/Cysts</u>
<ul style="list-style-type: none"> • Enteroviruses (poliovirus*, **) • Rotavirus*, ** • Norwalk virus, SRSV, calicivirus • Reovirus • Adenovirus • Hepatitis E virus • Hepatitis A virus • Smallpox • Astrovirus • Coronavirus (S.A.R.S.) 	<ul style="list-style-type: none"> • Klebsiella terigena*,** • Vibrio cholerae • Salmonella spp. • Shigella spp. • Toxigenic Escherichia Coli (E coli) • Campylobacter spp. • Leptospira spp. • Francisella tularensis • Yersinia enterocolitica • Aeromonas spp. • Helicobacter pylori • Legionella pneumophila • Bacillus anthracis (Anthrax) • Mycobacterium avium 	<ul style="list-style-type: none"> • Giardia lamblia* • Cryptosporidium parvum*, ** • Entamoeba histolitica* • Toxoplasma gondii* • Naegleria fowleri • Acanthamoeba spp. • Cyclospora cayetanensis • Isospora belli • Microsporidia • Balantidium coli

* Pathogens specifically tested by NSF International
 ** Pathogens specifically tested by UL
 These contaminants are not necessarily in your water.

Pentavalent Arsenic Treatment System Facts

Arsenic (abbreviated As) is found naturally in some well water. Arsenic in water has no color, taste or odor. It must be measured by a lab test. Public water utilities must have their water tested for arsenic. You can get the results from your water utility. If you have your own well, you can have the water tested. The local health department or the state environmental health agency can provide a list of certified labs. The cost is typically \$15 to \$30. Information about arsenic in water can be found on the Internet at the US Environmental Protection Agency website: www.epa.gov/safewater/arsenic.html.

There are two forms of arsenic: pentavalent arsenic (also called As(V), As(+5), and arsenate) and trivalent arsenic (also called As(III), As(+3), and arsenite). In well water, arsenic may be pentavalent, trivalent, or a combination of both. Special sampling procedures are needed for a lab to determine what type and how much of each type of arsenic is in the water. Check with the labs in your area to see if they can provide this type of service.

Reverse osmosis (RO) water treatment systems do not remove trivalent arsenic from water very well. RO systems are very effective at removing pentavalent arsenic. A free chlorine residual will rapidly convert trivalent arsenic to pentavalent arsenic. Other water treatment chemicals such as ozone and potassium permanganate will also change trivalent arsenic to pentavalent arsenic. A combined chlorine residual (also called chloramine) may not convert all the trivalent arsenic. If you get your water from a public water utility, contact the utility to find out if free chlorine or combined chlorine is used in the water system.

The Pall/Kinetico Purefecta Drinking Water Purifier is designed to remove pentavalent arsenic. It will not convert trivalent arsenic to pentavalent arsenic. The system was tested in a lab. Under those conditions, the system reduced 0.30 mg/L to 0.010 mg/L (ppm) (the USEPA standard for drinking water) or less. The performance of the system may be different at your installation. Have the treated water tested for arsenic to check if the system is working properly.

The RO component of the Pall/Kinetico Purefecta Drinking Water Purifier must be replaced periodically to ensure the system will continue to remove pentavalent arsenic. The component identification and locations where you can purchase the component are listed in this Performance Data Sheet, the Owner's Manual and the installation instructions for your system.

In most drinking water sources, the inorganic form of arsenic tends to be more predominant than organic forms. Inorganic arsenic in drinking water can exert toxic effects after acute (short-term) or chronic (long-term) exposure. Although acute exposures to high doses of inorganic arsenic can cause adverse effects, such exposures do not occur from public water supplies in the U.S. at the current MCL of 50 ug/L. EPA's proposed drinking water regulation addresses the long-term, chronic effects of exposure to low concentrations of inorganic arsenic in drinking water. Chronic effects at low concentrations include:

- Cancer Effects: skin, bladder, lung, and prostate cancer.
- Non-cancer effects: skin pigmentation and keratosis (callus-like skin growths seen earliest and most often), gastrointestinal, cardiovascular, hormonal (e.g., diabetes), hematological (e.g., anemia), pulmonary, neurological, immunological, reproductive/developmental functions.

The contamination of a drinking water source by arsenic can result from either natural or human activities. Arsenic is an element that occurs naturally in rocks and soil, water, air, plants and animals. Volcanic activity, the erosion of rocks and minerals, and forest fires are natural sources that can release arsenic into the environment. Although about 90 percent of the arsenic used by industry in the United States is used for wood preservative purposes, arsenic is also used in paints, drugs, dyes, soaps, metals and semi-conductors. Burning fossil fuels and wastes, paper production, glass manufacturing, cement manufacturing, mining and smelting can also release arsenic. While arsenic can no longer be used in making pesticides, weed killers and embalming fluids, the Agency is aware that prior to this ban these substances have contributed to drinking water contamination.



The Pall/Kinetico Purefecta Drinking Water Purifier will reduce the levels of certain substances in drinking water. These substances are not necessarily in your water. Because we make these claims, the attached in-formation was compiled to help you better understand how these products will perform in your home.

Contaminant reduction tests were conducted by:

NSF International against NSF P231 – Microbiological Water Purifiers based on the recommendations set forth in the USEPA's Guide Standard and Protocol for Testing Microbiological Water Purifiers (OPP Task Force Report, 1987) and against NSF/ANSI Standards 42, 53 and 58.

Underwriters Laboratories (UL) tested and found Purefecta to meet all the requirements of the USEPA's Guide Standard and Protocol for Testing Microbiological Water Purifiers (OPP Task Force Report, 1987) as interpreted by UL specifically for the Purefecta product..

Given certain influent levels, the Purefecta Drinking Water Purifier will reduce the contaminant levels below those set by the EPA. These products conform to the Drinking Water Standards of your state. If you would like more information, contact your authorized Kinetico dealer.

Please sign below to verify that you've read and understand the attached information.

CONSUMER COPY

CONSUMER

Signature

Name (please print)

Address

City, State/Province, Zip/Postal Code

AUTHORIZED KINETICO DEALER REPRESENTATIVE

Signature

Salesperson's Name (please print)

Dealer's Name

Dealer's Address

City, State/Province, Zip/Postal Code

Dealer's Phone Number



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Please sign below to verify that you've read and understand the attached information.

DEALER COPY

CONSUMER

Signature

Name (please print)

Address

City, State/Province, Zip/Postal Code

AUTHORIZED KINETICO DEALER REPRESENTATIVE

Signature

Salesperson's Name (please print)

Dealer's Name

Dealer's Address

City, State/Province, Zip/Postal Code

Dealer's Phone Number

State of California
Department of Health Services

Water Treatment Device
Certificate Number

05 - 1527

Date Issued: June 14, 2005

Trademark/Model Designation

Purfecta

Replacement Elements

9310 prefilter: sediment/chlorine
or 9309 prefilter: sediment only
10501 reverse osmosis membrane
10612 Purfecta cartridge
9307 postfilter: VOCs/MTBE

Manufacturer: Kinetico Incorporated

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)
Turbidity
Bacteria
Virus

Inorganic/Radiological Contaminants

Cadmium
Fluoride
Lead
Nitrate/Nitrite¹

Organic Contaminants

MTBE
VOCs

Rated Service Capacity: 500 gallons

Rated Service Flow: 0.75 gpm / 19.8 gpd

Conditions of Certification:

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.

¹This system 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 is certified for nitrate/nitrite reduction only for water supplies with a pressure of 280 kPa (40 psig) or greater. A sampling and analysis test kit for nitrate is provided for checking the performance of this system. Frequent analysis is encouraged.