

## K5 Drinking Water Station



# Kinetico K5

## Drinking Water Station

### Owner's Manual



Congratulations for choosing Kinetico to improve the quality of your water. You will immediately begin to notice the numerous benefits of having quality water in your home and the benefits of having a Kinetico water treatment system.

Since 1970, Kinetico Incorporated has designed and manufactured products to improve the quality of your water. Kinetico offers a complete line of quality water systems to solve your water problems. Pioneers in non-electric, demand operated water treatment, Kinetico continually sets the direction for the entire water quality industry.

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# Using the Kineticco K5 Drinking Water Station



Water is the most important resource liquid in the world. And although the water you use for drinking and cooking constitutes less than one percent of all water used in the home, its quality is probably most important to you.

Experts suggest you drink approximately eight, eight-ounce glasses of water per day. Now that you have a Kineticco K5 Drinking Water Station, you can rest assured you're drinking clean, high quality water. And it will taste great too. With a Kineticco K5 Drinking Water Station, drinking those eight glasses of water will be a pleasure, not a chore.

## How To Use High Quality Drinking Water

Since Kineticco K5 Drinking Water Stations significantly reduce heavy metals (such as lead), chemicals, minerals, and unpleasant tastes and odors in your water\*, you may want to make some adjustments when using Kineticco Drinking Water for cooking.

\* The contaminants listed are not necessarily in your water.

### **1 Let your taste buds decide how much water to use.**

When mixing concentrated juices and drinks or making gelatin, tea or coffee, you may need to adjust the amount of water used. You may find that you can use less coffee or tea and still get the desired taste. Or in the case of concentrated drinks, you can add more water without getting a watered-down taste. Also, it probably won't be necessary for you to descale your automatic coffee maker with vinegar as recommended.

### **2 Kineticco Drinking Water is ideal for cooking and baking.**

Don't forget to use water from your Kineticco K5 Drinking Water Station for cooking pasta, and washing fruits and vegetables. Whenever a recipe calls for water, reach for your special drinking water tap.



### **3 Use Kinetico Drinking Water in irons and small humidifiers/vaporizers.**

For extended operation and easier maintenance, use Kinetico Drinking Water in irons and small humidifiers. You'll no longer have to buy distilled water or suffer the consequences of using common tap water in irons and humidifiers. Since water produced by your system has a reduced mineral content, it's ideal for use in these appliances and it's available right at your kitchen sink.

### **4 Make ice cubes with Kinetico Drinking Water.**

If your refrigerator/freezer is equipped with an ice maker, you may want to consider running a line from your system to the ice maker. If you don't have an ice maker, be sure to fill your ice cube trays with Kinetico Drinking Water. Either way, you'll be able to enjoy better tasting and clearer ice cubes.



### **5 Houseplants and pets like Kinetico Drinking Water too.**

Don't forget about your plants and pets. Just like you, they'll love Kinetico Drinking Water.

## **How Your K5 Drinking Water Station Works**

The Kinetico K5 Drinking Water Station offers exclusive seven-stage protection to ensure you're always getting good, clean water. The K5 Drinking Water Station reduces the heavy metals, chemicals, minerals, and objectionable tastes and odors that may be in your water. We even offer a cartridge that adds valuable minerals to your treated drinking water.

### **Stage 1 – Prefilter**

The first filtration stage prepares the water for the reverse osmosis process. The five-micron filter captures sediment and small particulate matter, and reduces chlorine protecting the reverse osmosis membrane and enhancing its performance.

#### **Replacement Cartridges:**

**Sediment Prefilter** – Part number 9309A

**Carbon and Sediment Prefilter** – Part number 9461A

### ***Stage 2 – Reverse Osmosis Membrane***

After prefiltration, the water travels to the reverse osmosis membrane where the primary cleaning is performed. Here, water is forced through a semipermeable membrane under pressure, and most minerals, chemicals or objectionable matter that might have been in your water are flushed down the drain.

#### **Replacement:**

**Reverse Osmosis Membrane** – Part number 12752A

### ***Stage 3 – Auxiliary Filter #1 and Stage 4 – Auxiliary Filter #2***

Stage 3 and 4 allow you the flexibility to meet your needs, by offering you a variety of cartridges.

**Purefecta Bacteria/Virus Guard** – is certified by the WQA to remove more than 99.99% of viruses and 99.99999% of bacteria. When used in conjunction with an air charge tank and prefilter (*Part Nos. 9309A or 9461A*), the K5 Drinking Water Station equipped with Purefecta Virus/Bacteria Guard is considered a microbiological purifier.

**VOC Guard** – removes volatile organic compounds. See performance data sheet for a list of contaminants.

**Arsenic Guard\*** – by working with the RO membrane, the Arsenic Guard is able to remove both trivalent arsenic and pentavalent arsenic. See performance data sheet for more information on the two forms of arsenic.

**Perchlorate Guard\*** – removes perchlorate, a by-product from rocket and jet fuel, found in various locations around the world.

**Chloramine Guard\*** – removes chloramine, a chemical used to treat approximately 1/3 of US municipal water sources.

**Mineral Plus\*** – this exciting new innovation adds beneficial minerals, such as magnesium and calcium, to your drinking water. This cartridge will also enhance the taste of your treated water.

\* Tested and verified by independent laboratory testing.

**Replacement Cartridges:**

**Purefecta Bacteria/Virus Guard** – Part number 12873B

**VOC Guard** – Part number 12778

**Arsenic Guard** – Part number 11781A

**Perchlorate Guard** – Part number 11682

**Chloramine Guard** – Part number 13766

**Mineral Plus** – Part number 13041

Note: When using the VOC Guard in the auxiliary #2 position, the Chloramine Guard must be used in the auxiliary #1 position.

***Stage 5 – Storage Tank***

After the water is processed through the first four stages, it is stored in a tank until needed. Unlike all other storage tanks available, the “water on water” tank with QuickFlo technology uses your home’s water pressure to deliver Kinetico Water from your storage tank to your drinking water faucet. Since the storage tank uses your home’s water pressure rather than a pressurized air charge, you’ll have a steady, consistent flow of water from your tap, even if your storage tank is almost empty.

***Stage 6 – Postfilter Polisher***

After leaving the storage tank, the water travels to the next stage of protection, the MACguard® Filter. Containing activated carbon, the MACguard Filter gives a final polish to your water, further reducing unpleasant tastes and odors.

**Replacement Cartridges:**

**Taste and Odor Filter** – Part number 9306B

***Stage 7 – Faucet***

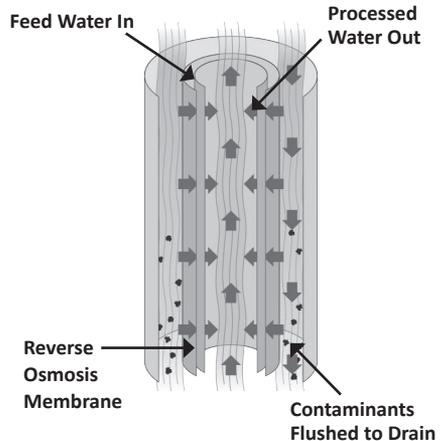
The final protection stage is a custom, decorator, lead-free tap, which is mounted on your sink. With this tap, you can be sure that lead won’t be added into your drinking water.

# What Makes Your Drinking Water System Different is What Makes It Better

Like other Kineticico equipment, the Kineticico K5 Drinking Water Station is non-electric and demand operated. With demand operation, Kineticico systems produce high quality drinking water, while they maximize water efficiency and performance.

## **EverClean® Rinse**

After shutdown, the system initiates the EverClean Rinse feature, which is patented and exclusive to Kineticico. The membrane's surface is automatically cleansed with and left to bathe in clean, processed water. The system then depressurizes the membrane. These actions extend the useful life of the membrane, enables it to maintain a high level of performance and prevents inorganic contaminants from migrating into the treated water during shutoff.



## **MACguard® Filter**

One of the system's most unique features is the automatic shutoff of the MACguard Filter. ("MAC" stands for Metered Automatic Cartridge.) After 500 gal (1895 L) of water have been processed through the MACguard Filter, it shuts off (no flow or fine stream) to alert you that the filter is exhausted. The filter cannot be reset, and no more water can be drawn from the system. This signals the need to change the prefilter and postfilter cartridges, but more importantly, it prevents you from using the cartridges beyond their capacity. If overused, cartridges lose their filtration ability.

## **PureMometer® Filter Life Indicator**

Your system is equipped with the PureMometer (rhymes with thermometer) Filter Life Indicator so you can tell how much capacity remains in your filter cartridges. Use the PureMometer to estimate when to purchase replacement prefilter and postfilter cartridges so you won't be surprised when the failsafe MACguard Filter shuts down the system.

## System Accessories

Your system may also include the following upgrades, which are available from your local Kinetico dealer.

### ***Decorator Finish, Lead-Free Taps***

Choose from highly stylish decorator taps to complement your decor. Available in Classic Chrome (standard), Brilliant Nickel, Satin Nickel/Stainless, Oil Rubbed Bronze, Polished Brass, Light Biscuit, Arctic White and Black Licorice.

### ***Oversized Storage Tank***

A larger storage tank supplies more water on demand for larger families. There's no need to do anything special to your system. Simply enjoy your clean, clear Kinetico Water.

## Maintaining Your Drinking Water System

The Kinetico K5 Drinking Water Station is engineered to take the guesswork out of quality water. It will tell you when routine maintenance needs to be performed to keep your drinking water system working properly.

### ***Filter Changes***

If you open your tap and don't get any water, or only get a small stream, it could mean one of two things: your storage tank is out of water and the drinking water system is making more, or your MACguard Filter has shut off. Check your system's PureMometer to see if the MACguard Filter has shut off. Periodically checking the PureMometer could alert you of upcoming filter shutdown before it happens. If the MACguard Filter has not shut off, wait an hour or two and try to draw water from the faucet again.

How long a MACguard Filter cartridge will last depends on your drinking water usage. It could last anywhere from a few months to a few years. An average family of four with average drinking water use can expect the cartridge to last approximately nine months to one year. Kinetico recommends annual cartridge replacements even if your system has not shut off.

When your MACguard Filter does shut off, we recommend you call your local, authorized Kinetico dealer. They will change your cartridges, completely sanitize your system, check your water and make sure your system is operating properly. If you choose to install your new cartridges yourself, follow the instructions carefully. Never attempt to remove the prefilter or postfilter cartridges without first depressurizing the system. Be sure to completely sanitize your system by following the instructions provided in the "Sanitization Procedure" section of this owner's manual to prevent contamination from human contact.

## Shutting Off the System

If you should ever discover a problem with your drinking water system, turn off the water supply to the system. Then call your local, authorized Kineticico dealer for service.

*NOTE: The Kineticico K5 Drinking Water Station's operational, maintenance and replacement instructions must be followed to ensure proper system performance. The reverse osmosis system contains a replaceable component critical to the efficiency of the system. Any replacement reverse osmosis component must be identical to the one listed here to assure the same efficiency and contaminant reduction performance. Recommended hardness is zero to 10 gpg for extended product life. Do not use where water is microbiologically unsafe or with water of unknown quality. Systems claiming cyst reduction may be used on disinfected water containing filterable cysts. You may also want to drain the drinking water storage tank upon your return to ensure the freshest water.*

## Nitrate/Nitrite Kit

If you purchased your system specifically for nitrate reduction, Kineticico recommends periodic (quarterly) testing with a nitrate/nitrite test kit (Part No. 7329) to assure that nitrate/nitrites are being reduced to acceptable levels.

## Cartridge Changes and Sanitization

If you choose to change the cartridges on your Kineticico K5 Drinking Water Station yourself, you must use a sanitization kit available from your Kineticico dealer. Follow the instructions to fully sanitize your system. Wash your hands thoroughly and do not touch any internal portions of the system. Or call your local, authorized Kineticico dealer who can change the necessary filters, disinfect your system and analyze your water to be sure it is of the best quality.

*NOTE: Although great care is taken to provide a sanitized drinking water unit, possible contamination can result from vendor products, assembly, packaging, shipping or extended storage time. Proper sanitization is required.*

**IMPORTANT:** Do not drink water from system during sanitization.

**WARNING:** To avoid possible injury and property damage, this system must be properly depressurized before attempting to remove any cartridge or other component.

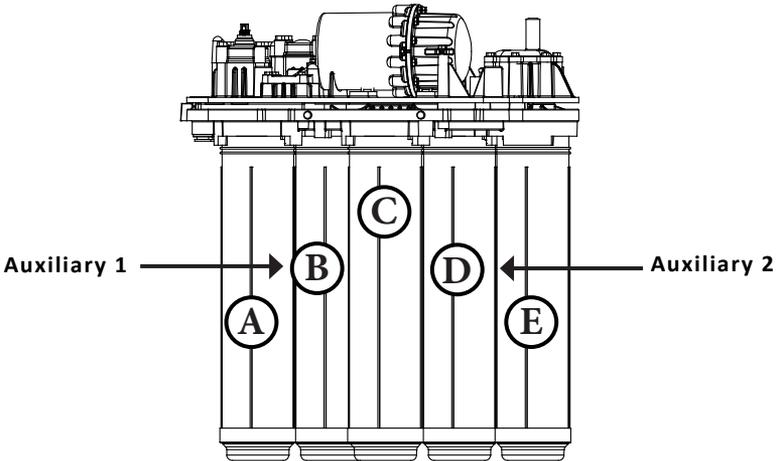
**WARNING:** After completing the sanitization procedure, the tank must be filled and drained twice before water can be consumed.

**WARNING:** Safety glasses and rubber/latex gloves must be worn during sanitization.

### Replacement Filter Cartridges

To ensure optimum performance, continued warranty coverage and that your system continues to comply with NSF/ANSI standards, you must replace the prefilter and postfilter cartridges annually or upon system shutoff, whichever occurs first. Use the following chart to determine which filters are appropriate for your system.

Location	Cartridge Part Number
<b>Prefilter (A)</b>	Sediment Prefilter ( <i>non-chlorinated feed</i> )- Part number 9309A Carbon/Sediment Prefilter ( <i>chlorinated feed</i> )- Part number 9461A
<b>Auxiliary #1 (B)</b>	Purefecta Bacteria/Virus Guard -Part number 12873B VOC Guard - Part number 12778 Arsenic Guard - Part number 11781A Perchlorate Guard - Part number 11682 Chloramine Guard - Part number 13766 Mineral Plus - Part number 13041
<b>RO Membrane (C)</b>	Part number 12752A
<b>Auxiliary #2 (D)</b>	Purefecta Bacteria/Virus Guard -Part number 12873B VOC Guard - Part number 12778 Arsenic Guard - Part number 11781A Perchlorate Guard - Part number 11682 Chloramine Guard - Part number 13766 Mineral Plus - Part number 13041
<b>MACguard Postfilter (E)</b>	Taste and Odor Postfilter - 9306B



# System Specifications

<b>TDS maximum level</b>	<3000 ppm*
<b>pH Range:</b>	3-11
<b>Pressure Ranges:</b>	35-120 psi (2.41-8.27 bar), 40 psi (2.76 bar) minimum for nitrate reduction
<b>Temperature Range</b>	35°-100°F (2°-38°C)
<b>Water Supply</b>	0-10 grains per gallon hardness, 0 - 0.1 iron
<b>Rated Filter Capacity</b> ( <i>Auxiliary and Postfilter</i> )	500 gallons (1895 L)
<b>Maximum Daily Production Rate</b>	75 gpd (283 Lpd)
<b>Membrane Discharge Water/Product Water Ratio:</b>	1 to 1
<b>Discharge Water/Product: Water Ratio:</b>	3 to 1
<b>Typical Product Water Production Rate:</b>	51.0 gpd (193 Lpd)
<b>Efficiency Rating</b>	20.7%
<b>Recovery Rating</b>	38.8%

\*Note: TDS levels above 1,500mg/L must have greater than 50 psi.



Tested and certified by WQA against NSF/ANSI Standards 42, 53 and 58 for the reduction of claims specified on the Performance Data Sheet. Conforms to CSA Standard B483.1 – Drinking Water Treatment Systems (refer to the 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 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. The following cartridges are not NSF or WQA Certified: Arsenic Guard, Perchlorate Guard, Chloramine Guard, and Mineral Plus.

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 the Performance Data Sheet for further information.

U.S. Patent number 8,741,148 B2





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Part No. 13034H

Réf. n° 13034H

Parte No. 13034H

12/2014