

ALKAPLUS FREEDOM NANO

AlkaPlus Freedom Nano is a state of the art point-of-use drinking water system designed for water supplies that are not fluoridated that use chlorine for disinfection. The system produces great tasting water that is free of chlorine, lead, mercury, heavy metals, contaminants, viruses, bacteria, with the removal of over 85% of pharmaceutical drugs. The Bioceramic alkalizing antioxidant filter provides an increased pH, higher levels of healthful minerals, a lower ORP (Oxidation Reduction Potential), a smaller water cluster size, and an increase in active hydrogen ions while giving the water antioxidant properties.

The AlkaPlus Freedom consists of five advanced filtration components providing seven stages of filtration, with three vertical stages and two horizontally mounted inline filters. Unique features of this model are the horizontally mounted .01 micron Nanofiltration filter which removes bacteria, viruses and over 85% of pharmaceutical drugs, and the 14" Bioceramic alkalizing antioxidant filter.



OPUS Healthy Water Systems

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Included Components:

1. Triple filter wall-mountable housing designed to be installed either under a sink or in a basement or lower level (additional tubing required for lower level installations).
2. 10" 5 micron pleated sediment filter. (Stage 1)
3. 10" 3 lb KDF media with 1 lb granulated activated carbon filter. (Stage 2 & 3)
4. 10" .5 micron carbon microfiltration filter that removes MTBE, VOCs, lead, mercury, chlorine, and particles .5 microns and larger. (Stage 4 & 5).
5. Horizontally mounted .01 Micron Nanofiltration filter, which blocks protozoa, (cryptosporidium, giardia), bacteria (campylobacter, salmonella, shigella, E. coli), viruses (enteric, hepatitis A, norovirus, rotavirus), and over 85% of pharmaceutical drugs. (Stage 6)
6. 14" inline horizontally mounted bioceramic antioxidant alkalizing filter. (Stage 7)
7. Quick connects throughout for all ¼" tubing connections, including the brushed nickel ceramic disk designer faucet.
8. Brushed nickel ceramic disk designer faucet with standard sink installation components, including a John Guest quick connect for easy connection of the blue tubing from the output of the system.
9. Two 5 foot lengths of flexible LLDPE ¼" BPA-free tubing – one blue, and one red.
10. John Guest ball valve (blue and white shut-off valve), a convenient shut-off valve that is installed with a short piece of ¼" tubing on the left side of the filtration system (water input) to make it easy for filter flushing and future filter changes.
11. Filter wrench, to enable easy opening of the filter housings (three vertical components).
12. 5 Year Limited Warranty

ALKAPLUS FREEDOM NANO FILTRATION UNIT DESCRIPTION:

Stage 1: 5 Micron Pleated Sediment Filter. Installed in left filter housing. In normal use, this filter should be replaced annually; however, depending on the quantity of water purified and the level of dissolved solids and sediment in your water, you may need to change it more often. Change this filter if water pressure drops to unacceptable levels. This filter is labeled **Stage 1 – 5 Micron Sediment Filter**.

Stage 2 & 3 – 3 lb KDF Media/1 lb GAC. This is the middle, or centre vertical stage of the unit. This filter consists of two components (two stages), including the equivalent of 3 pounds of KDF media and 1 pound granulated activated carbon (GAC). KDF media is a copper-zinc formulation that uses electrochemical and catalytic technology to remove chlorine, lead, mercury, iron, aluminum, arsenic, chromium, copper, manganese, nickel, chloroform, trichloroethane, lindane, nitrates, nitrites and hydrogen sulfide from water. KDF media has a mild anti-bacterial, algacetic, and fungicidal effect, and may reduce the accumulation of lime scale. The filter housing above this filter is labeled **Stage 2 & 3 – 3 lb KDF/GAC**.

Stage 4 & 5 – .5 Micron MTBE/VOC/Lead/Mercury Microfilter:

This is the right vertical stage of the unit with multiple functions, including:

- Trapping particles down to .5 microns from the KDF/GAC filter in stage 2 & 3. (Stage 4).
- Removing chlorine, odors, dissolved and particulate lead, mercury (99.5% removal rate for lead and mercury), and cysts, including giardia, cryptosporidium, entamoeba and toxoplasma. A unique feature of this filter is the filtration of MTBE and VOCs – contaminants that very few filtration systems can remove. (Stage 5)

Stage 6 - Horizontally mounted .01 Micron Nanofiltration filter, which blocks protozoa, (cryptosporidium, giardia), bacteria (campylobacter, salmonella, shigella, E. coli), viruses (enteric, hepatitis A, norovirus, rotavirus), and over 85% of pharmaceutical drugs.

Stage 7 – 14" horizontally mounted bioceramic alkalizing antioxidant filter. Using bioceramics, alkalizing minerals (magnesium, calcium and potassium), and other unique minerals and ceramics, the OPUS Bioceramic Alkalizing Antioxidant Filter transforms water purified by the previous five stages into antioxidant, oxygenated, alkalizing drinking water with a higher pH and a lower oxidation reduction potential (ORP).

Benefits of the Bioceramic Filter:

- Increased pH, creating more alkaline (higher pH) drinking water. Alkaline liquids help flush acidic metabolites and toxins at the cellular level, while increasing the body's alkalinity.
- Addition of healthful ionic (ionized) minerals, including magnesium, calcium, and potassium.
- Increase in oxygen. Ionized water can deliver twice the oxygen to your cells as tap or bottled water. German biochemist Dr. Otto Warburg won the Nobel Prize for research indicating that cancer cells are anaerobic and that cancer cannot survive in the presence of oxygen.
- The antioxidant function scavenges oxygen free radicals (reactive oxygen species), and may help reduce the risk of degenerative diseases including cancer, diabetes, and heart disease.
- Tourmaline – Far-infrared ceramic balls produce negative hydrogen (hydroxyl) ions and create a smaller water cluster size.

- Smaller water clusters (51.497 Hz) hydrate the body up to 3 times more effectively than normal water, while helping to increase the absorption of nutrients and minerals.
- Lowers the ORP (oxidation reducing potential) of water to between -100mv and -350mv depending on source water and raises the pH to between 8 and 9.5.

NOTE ABOUT QUICK CONNECTS:

All OPUS water purification systems utilize quick connects for all tubing connections, including the connection to the John Guest ball valve (shutoff valve), faucet (there is a small gray piece with the quick connect supplied with the faucet) and input and output of the water filtration system. The quick connect allows easy insertion and removal of 1/4" tubing. To remove the tubing, you must hold in the "ring" or collar that is on the outside of the tubing (the ring or collar surrounds the tubing and is part of the quick connect). When you hold in the ring (sometimes you need a flathead screwdriver, but usually your finger will do) the tubing will easily slide out. If you try to pull out the tubing without holding in the ring, you can damage the quick connect fitting.

INSTALLATION INSTRUCTIONS

STEP 1 – INSTALL THE SUPPLIED FAUCET TO YOUR SINK. Drill 5/8" hole if required.

If your sink or countertop doesn't have a hole for the supplied faucet, a 5/8" hole must be drilled to allow faucet installation. After the faucet has been installed, mount the unit under your sink or in a location that provides easy access for future filter changes.

Note 1: Most plumbers cannot drill into quartz, granite, or similar solid countertops for faucet installation. If you have a solid countertop, check with your installer to ensure he or she can drill into your countertop without risking damage. It's usually best to contact the countertop supplier or manufacturer to drill the 5/8" hole required for faucet installation if you have a solid countertop.

Note 2: Your plumber must provide a connection to your cold water pipe and to the input of the AlkaPlus system. We recommend SharkBite U362 1/2" TEE, and a Dahl straight shut-off ball valve (1/2" PEX 1/4 OD). These are included if you choose an Aviva recommended plumber. If you choose to use your own plumber, these parts are available for \$42.00 plus tax.

1. Once the faucet has been installed, mount the unit under your sink or in an area that provides easy access for future filter changes. The supplied 5 foot length of 1/4" red tubing is used to connect the cold water source to the AlkaPlus Freedom Water Input (the blue and white John Guest shut-off valve that is inserted into the water input on the left side of the system).
2. When the flushing of filters as described below is complete, the blue tubing will be connected to the output of the AlkaPlus Freedom system and to the faucet. However, during the flushing process the blue tubing is connected to the output on the right side of the system, bypassing the Stage 6 Nanofiltration filter and the Stage 7 Bioceramic filter; the short white piece of tubing that connects the right side of the system to the Stage 6 NanoFiltration filter is disconnected for this step. After flushing is complete, the short white piece of tubing is reconnected, to connect Stage 4 & 5 to the Stage 6 Nanofiltration filter.

Note 3: Important: Before use, the filters must be flushed, as described below.

STEP 2 – To prepare for flushing the Stage 2 & 3 KDF/GAC filter installed in the middle vertical housing in Step 3, remove the .5 micron filter from the right vertical filter housing, which is the two-stage (Stage 4 & 5) MTBE/VOC Filter (.5 Micron MTBE/VOC carbon filter).

1. Using the filter wrench, turn the white filter housing on the right side of the unit to the left to open, and remove the filter. The filter is labeled *Stage 4 & 5 – .5 micron VOC/MTBE Filter* on the metal housing above the filter. Any labels and plastic should already be removed from all installed filters when you receive the unit, but if there are labels or plastic wrapping on the filters, remove prior to re-installing after flushing. After opening the filter housing and removing the filter from the right housing slot, replace the empty filter housing onto the filtration system by turning to the right.

STEP 3 – KDF/GAC FILTER FLUSH

With the .5 micron MTBE/VOC filter removed from the right vertical housing run water through the system for 15 minutes to flush the KDF/GAC filter of fine carbon dust particles.

STEP 4 – INSTALL THE .5 MICRON MICROFILTRATION FILTER IN POSITION 3 (STAGE 4 & 5)

1. After you have flushed the KDF/GAC filter as described in Step 3, turn off the water to the system by closing the John Guest ball valve installed in the left side of the unit. Leave the faucet valve open to ensure no water is flowing through the unit.
2. Unscrew the Stage 5 & 6 right vertical filter housing using the filter wrench, and install the .5 micron MTBE/VOC filter (Stage 5 & 6 combined into one filter). This filter is white in color, with green rings on each end. Remove any cellophane wrapping (if present) before installation. You can install this filter in either direction. Flush the .5 micron filter for about five minutes.

STEP 5 – CONNECT STAGE 4 & 5 (RIGHT SIDE OF UNIT) TO THE STAGE 6, BIO CERAMIC FILTER.

1. Remove (gently pull out) the blue ¼" tubing that connects to the quick connect on the right side of the unit (and to the faucet) by holding in the ring (collar) that surrounds the tubing.
2. Insert the short white piece of tubing that is connected to the input of the Stage 6 Nanofiltration filter to the quick connect water output on the right side of system. This connects the AlkaPlus Freedom system to the horizontally mounted Stage 6 Nanofiltration filter.

STEP 6 – CONNECT BLUE TUBING TO STAGE 6 OUTPUT (BIO CERAMIC FILTER OUTPUT)

Connect the ¼" blue tubing that connects to the faucet, which was previously connected to the right side of the filtration system (after Stage 4 & 5), to the quick connect that is attached to the output of the Stage 7 Bioceramic filter on the left of the filter.

STEP 7 – FLUSH THE BIO CERAMIC FILTER

Turn on the John Guest ball valve and allow water to run through the system for a full 30 minutes to flush the bioceramic filter. A minimum of 24 gallons is required to flush the bioceramic filter. If you find the water has an “off” taste, you need to flush the Bioceramic filter for a longer period of time. Usually another 15 to 30 minutes of final flushing is sufficient. You can now enjoy great-tasting, health-promoting, alkaline, antioxidant, mineral-rich water, free of bacteria, viruses, chlorine, MTBE, lead, mercury, and over 85% of pharmaceutical drugs.

OPTIONS FOR ALKAPLUS FREEDOM NANO:

- Upgrade to designer ceramic disk NSF certified faucet - \$40.00
- Grohe Concetto Designer Kitchen Faucet (matches NSF water filter faucet) - \$350.00
- Additional BPA Free LLDPE ¼" Tubing - \$1.00 per foot
- John Guest Union “T” to allow connection to a refrigerator or second tap - \$5.00

AlkaPlus Freedom Nano Description

PLU	Model	Height	Width	Depth	Max Flow Rate	Description	Price
20383	AlkaPlus Freedom Nano	17"	17"	6"	2-4 Litres Per Minute	5 filter, 7 stage water purification system, with .5 micron micro-filtration; chlorine, heavy metal, VOC, MTBE, major contaminant and chemical filtration, with .01 micron Nanofiltration and the Bioceramic alkaline antioxidant ionizing filter.	\$599.99

AlkaPlus Freedom Nano Filter Change Information

PLU	Model	Stage	Location	Function	Change Every	Price
6929	OPUS Pleated Sediment	1	Left Vertical	5 Micron Sediment Filtration (x 2)	6 Months-1 Year	\$25.00
9395	3 lb. KDF / 1 lb. GAC	2&3	Middle Vertical	Chlorine, Heavy Metals, THMs	1 Year	\$80.00
14256	.5 Micron Carbon	4&5	Right Vertical	Chlorine, Lead, Mercury, MTBE, VOC	1 Year	\$50.00
19761	.01 Micron NanoFiltration	6	Top Horizontal	Viruses, Bacteria, Pathogens, Drugs	1 Year	\$100.00
9487	Bioceramic Alkaline Filter	7	Top Horizontal	Ionizing, Alkalizing, pH Boosting	1 Year	\$150.00
20382	Annual Filter Change	1-6		Annual Kit with 6 Filters	1 Year	\$405.00

Winnipeg Installation Options

13824	Standard Drinking Water System, Under Counter Installation, with included faucet, within Winnipeg city limits	\$150.00
17549	Minimum Additional Charge for Basement Install, one floor below kitchen sink, including up to 40 feet ¼" tubing	\$100.00
15250	Annual Filter Change, on-site (not including filters, which are priced above) including filter flushing as required	\$90.00
18053	SharkBite ½" TEE (combine with PLU 18052 for highest quality installation)	\$16.00
18052	½" PEX ¼ OD DAHL Straight Ball Valve (combine with 18053 for highest quality installation)	\$26.00
18054	Saddle Valve to connect ¼" Tubing to Copper Cold Water Pipe & to System (SharkBite & Dahl Valve recommended)	\$8.50
11852	¼" John Guest Union "T" to allow two outputs from one input, to allow connection to a refrigerator, second tap, etc.	\$5.00
96??	¼" BPA Free Linear Low Density Polyethylene Tubing (LLDPE), per foot (White (9678), Blue (9679), or Red (9680))	\$1.00

ANNUAL COST OF OPERATION: APPROXIMATELY \$405.00

MONTHLY COST OF OPERATION: \$33.75

WEEKLY COST OF OPERATION: \$7.79

DAILY COST OF OPERATION: \$1.10

COST PER GALLON: LESS THAN \$0.22

COST PER LITRE: \$0.055

5 YEAR LIMITED WARRANTY

**Designed, Engineered, and Tested by Nathan Zassman, President
OPUS Water Purification Systems**