OPUS ALKAPLUS-2024 Water Purification System Installation Guide

OPUS ALKAPLUS-2024 Water Purification System

AlkaPlus-2024 is a point-of-use drinking water system that produces great tasting water that is free of fluoride, chlorine, chloramines, lead, heavy metals, VOCs, MTBE, and contaminants. The Ceramic Complex final filter provides increased pH, adds healthful minerals including calcium, removes heavy metals, and provides additional antibacterial properties that complement the 0.5 Micron MTBE VOC Filter.

Contents

Overview

The AlkaPlus uses five advanced filtration components providing seven filtration stages, with three 10″ vertical stages and two horizontally mounted inline filters labeled Stage 1, 5 Micron Carbon Block Sediment and Stage 7, Ceramic Complex Alkalizing Antioxidant Filter.

Included Components

1. Triple filter wall mount housing designed to be installed either under a sink or in a basement or lower level (additional tubing required for lower level installations).
2. Inline horizontally mounted 5 micron carbon block sediment filter. (Stage 1)
3. 10″ bone char fluoride adsorption filter. (Stage 2)
4. 10″ 1 Micron Catalytic Carbon Chloramines Filter. (Stages 3 & 4)
5. 10″ 0.5 micron carbon block microfiltration filter (removes MTBE, VOCs, lead, mercury, chlorine, etc.). (Stages 5 & 6)
6. 14″ inline Ceramic Complex Filter, connected by plastic clips to the 5 micron sediment filter, mounted horizontally. (Stage 7)
7. Quick connects throughout for all ¼” tubing connections, including on the brushed nickel ceramic disk designer faucet.
8. Brushed nickel lead-free ceramic disk designer faucet with standard sink installation components, including a John Guest quick connect that is screwed onto the end of the faucet for fast and 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. Red is used to connect to the cold water source and to the John Guest ball valve (shut-off valve) installed in the input of the 5 micron horizontally mounted inline sediment filter. The blue tubing is connected to the output of the system and to the supplied John Guest quick connect that is screwed onto the bottom of the supplied faucet.
10. John Guest type shut-off valve, to make it easy to shut off water for initial filter flushing and future filter changes, connected to the 5 micron sediment filter.

11. Filter Wrench, to enable easy opening of the filter three vertical filter housings.
12. Five Year Limited Warranty if all filters are changed annually, not including 0- rings, which should be changed if there are leaks around the sump (container) seals.

Alkaplus Filtration Unit Description

Stage 1 – Horizontally Mounted 5 Micron Sediment Filter. This is an inline plastic carbon block filter horizontally mounted on the top of the system with plastic clips. Under normal use, this filter should last six months to a year; however, depending on the quantity of water purified and the level of sediment in your water, it may require changing more often. Replace this filter if the water pressure drops to an unacceptable level, but at minimum it must be changed annually with the other filters.

- This filter is labeled Stage 1 – 5 Micron Carbon Block Sediment Filter

Stage 2 – Bone Char Fluoride Filter: This is the left vertical stage of the three vertically mounted filters. This filter is specifically designed to remove fluoride.

- This filter is labeled Stage 2 – Bone Char Fluoride Filter on the metal bracket above the filter container. Under normal use, replace this filter annually.

Stage 3 & 4 – 1 Micron Catalytic Carbon Filter: This filter combines 1 micron filtration with a special catalytic carbon filter that removes chlorine and chloramines. Under normal use, replace this filter annually.

- This filter is labeled STAGE 3 & 4 – 1 Micron Catalytic Carbon/Chloramine Filter on the metal bracket above the filter container.

Stage 5 & 6 – 0.5 Micron MTBE/VOC/Lead/Mercury Microfilter: This is the right vertical stage of the unit that is installed after the 15 minute flushing of the Stage 2 bone char filter, and the

Stage 3 & 4 Catalytic Carbon Chloramines filter. The filter consists of a 0.5 micron carbon microfiltration filter that has multiple functions, including:

- Removing chlorine; odors; dissolved and particulate lead; mercury (99.5% removal rate for lead and mercury); giardia, cryptosporidium, entamoeba and toxoplasma cysts. A unique feature of this filter is the filtration of MTBE and VOCs – contaminants that very few filtration systems can remove.
- Trapping particles from the bone char fluoride filter in Stage 2, and the Catalytic Carbon 1 Micron Chloramines filter in Stage 3 & 4.
- This filter is labeled Stage 5 & 6 – 0.5 Micron VOC/MTBE Carbon Filter on the metal bracket above the filter container. Replace this filter annually with normal use.

Stage 7 – Ceramic Complex Alkalizing Filter: Using 5 types of ceramic balls, this filter adsorbs heavy metals and chlorine, softens hard water, reduces or eliminates bacteria and fungi (antibacterial and anti-fungal properties), adds alkalizing minerals including calcium, and increases the pH (alkalinity). This filter is labeled Stage 7 – Ceramic Complex Filter. Replace this filter annually with normal use. This filter requires 15 minutes of flushing before use.

Benefits Of The Ceramic Complex 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 calcium.
- The antibacterial ceramic balls absorb heavy metals and have an antibacterial effect against a broad range of bacteria and fungi including Escherichia coli.
- Alkaline Ceramic Balls increase the pH, and remove bad odors, while making the water taste sweeter

Note About Quick Connects:

All OPUS systems utilize quick connects for all tubing connections, including the connection to the John Guest bll 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 ¼" 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 a 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 enable 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. Some sinks have a soap dispenser that uses a 5/8″ hole; many customers remove the soap dispenser, and use the hole from the dispenser to install the supplied faucet.

Note 1: Most plumbers cannot drill into quartz, granite, or similar countertops for faucet installation.

If you have a quartz, granite or solid countertop, we recommend contacting the countertop supplier to drill the 5/8″ hole required for faucet installation.

Note 2: Your installer must provide a connection to your cold water source. We recommend SharkBite U362 ½" TEE for the cold water connection, and a Dahl straight shut-off ball valve (½" PEX ¼" OD).

- 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 ¼" red tubing is used to connect the cold water source to the AlkaPlus Water Input (the blue and white John Guest shut-off valve that is inserted into the horizontally mounted 5 micron sediment filter).
- The blue tubing is connected to the output of the AlkaPlus system and to the faucet. Until the flushing is completed, the blue tubing that connects to the faucet is connected to the output on the right side of the system, bypassing the Ceramic Complex filter, with the short white piece of tubing that connects the right side of the system to the Ceramic Complex filter disconnected. After flushing has been completed, the short white piece of tubing is reconnected, to connect Stage 5 & 6 (right side of system) to the Stage 7 Ceramic Complex Filter.

Important Note Regarding Filter Flushing: The Stage 3 & 4, 1 Micron Catalytic Carbon Filter, and the Stage 5 & 6 0.5 micron microfiltration VOC/MTBE carbon block filter must be removed from the middle and right filter containers after receiving the system and reinstalled after proper flushing of the fluoride (Stage 2) and Catalytic Carbon (Stage 3 & 4), as described below. OPUS recommends a plumber experienced in OPUS water filtration installations.

STEP 2 – BONE CHAR FLUORIDE FILTER FLUSH

1. The first step in the installation process is flushing the bone char fluoride filter of fine particulates of bone char powder. Failure to follow this important step will result in bone char particles clogging the 1 Micron Catalytic Carbon Chloramines Filter (Stage 3 & 4) and the .5 micron Stage 5 & 6 filter. If proper flushing is not performed as described in this document, you may need to replace these two filters.
   To prepare for flushing the bone char fluoride filtration filter installed in Stage 2 (left vertical housing), remove the filters from the center and right filter housings. Using the supplied filter wrench, turn the middle and right white filter housings to the left to open and remove the filters.
   The filters are labeled Stage 3 & 4 – 1 Micron Catalytic Carbon Chloramines Filter, and Stage 5 & 6 – .5 Micron MTBE/VOC on the frame above the filter housings. Replace the empty housings. Make sure the O-ring (rubber washer) is visible in the groove of the filter housing when you screw it back onto the system to prevent leaks. Labels and plastic should be removed from all installed filters when you receive the unit, but if there are labels or plastic wrapping on the filters, remove them prior to reinstalling (as described below) after flushing. After opening the filter housings and removing the filters from the center and right housings, replace the empty filter housings onto the filtration system by turning to the right.
2. Turn on the water using the John Guest ball valve that is connected to the Stage 1 five micron carbon block sediment filter, and run water through the system for 15 minutes.
3. Water will pass through the 5 micron horizontally mounted sediment filter, through the bone char fluoride filter in the left housing, through the two empty filter housings, and out the faucet.

STEP 3 – FLUSH STAGE 3 & 4, 1 MICRON CATALYTIC CARBON CHLORAMINES FILTER

1. After you have flushed the fluoride filter for 15 minutes, turn off the water to the system using the John Guest ball valve that is connected to the stage 1 horizontally mounted 5 micron sediment filter. Keep the faucet open to ensure there is no water flowing through the unit.
2. Remove the filter housing from the center position using the supplied filter wrench. Dump out the water (it's easiest to do this with a bucket under or near the unit) and install the 1 Micron Catalytic Carbon Chloramine Stage 3 & 4 filter. Remove any paper or cellophane wrapping on the filter before installing. This filter has rubber washers on both ends and can be installed in either direction.
3. Turn on the water using the John Guest ball valve connected to the stage 1 sediment filter, and let the water run for 15 minutes to flush the activated carbon particle dust from the filter.

STEP 4 – INSTALL THE 0.5 MICRON MICROFILTRATION FILTER IN POSITION 3 (STAGE 5 & 6)

1. After you have flushed the system as described in Steps 2 and 3, turn off the water to the system by closig the John Guest ball valve installed in the Stage 1 sediment filter. Keep the faucet valve in the open (lower) position to ensure no water is flowing through the unit.
2. Unscrew the Stage 5 & 6 right vertical filter housing using the supplied filter wrench, and install the 0.5 micron MTBE/VOC filter (Stage 5 & 6 combined into one filter). This filter is white in color, with green rings on each end. You can install this filter in either direction. Flush the .5 micron filter for five minutes.

STEP 5 – CONNECT STAGE 5 & 6 (RIGHT SIDE OF UNIT) TO THE STAGE 7 CERAMIC COMPLEX 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 7 Ceramic Complex filter to the quick connect on the right side of the system, where water exits from the main unit. This connects Stage 5 & 6 to the final horizontally mounted Ceramic Complex Stage 7 filter.

STEP 6 – CONNECT BLUE TUBING TO STAGE 7 (CERAMIC COMPLEX 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 5 & 6) to the quick connect that is attached to the output on the left side of the Stage 7 Ceramic Complex

STEP 7 – FLUSH THE CERAMIC COMPLEX FILTER

Turn on the John Guest ball valve and allow water to run through the system for 15 minutes to flush the Ceramic Complex filter. You can now enjoy great-tasting, chemical and contaminant free, health-promoting, alkaline, antioxidant, mineral-rich water.

Options For Alkaplus

- Germicidal ultraviolet water purification filter (requires AC power), with flow-restricted 0.5 micron MTBE/VOC filter (replaces standard .5 micron MTBE/VOC Filter) – $199.99
- John Guest Union “T” to allow connection to a refrigerator or second tap – $5.00
- Additional LLDPE ¼” ID tubing – $1.00 per foot

AlkaPlus-2024 Description

PLU	Model	Height	Width	Depth	Max Flow Rate	Description	Price
19758	AlkaPlus 2024	17″	17″	6″	2-4 Litres Per Minute	5 filter, 7 stage water purification system, with .5 micron micro-filtration, chlorine, heavy metal, fluoride, chloramines, VOC, MTBE, major contaminant and chemical filtration, with ceramic complex alkaline antioxidant ionizing filter.	$599.99

AlkaPlus Filter Change Pricing and Frequency

PLU	Model	Stage	Location	Function	Change Every	Price
23788	OPUS Inline Sediment	1	Top Horizontal	5 Micron Carbon Sediment Filtration	6 Months-1 Year	$40.00
17800	Bone Char Fluoride filter	2	Left Vertical	Fluoride Filtration Using Bone Char	1 Year	$80.00
10616	1 Micron Catalytic Carbon	3 & 4	Middle Vertical	1 Micron, Chlorine, Chloramines	1 Year	$50.00
14256	.5 Micron Carbon Block	5 & 6	Right Vertical	Chlorine, Lead, Mercury, MTBE, VOC	1 Year	$50.00
26870	Ceramic Complex Filter	7	Top Horizontal	Increases Alkalinity, Antibacterial, Improves Taste	1 Year	$100.00
19781	**Annual Filter Change**	**All**		**Annual Kit with 5 Filters**	**1 Year**	**$320.00**

Winnipeg Installation Options

19759	Standard Drinking Water System, Under Counter Installation, with included faucet, in Winnipeg City Limits.	$150.00
17549	Minimum Additional Charge for Basement Install, one floor below kitchen sink. Up to 40 feet of tubing included.	$100.00
18827	Additional Charge to connect a refrigerator using a “T” connection (faucet and fridge connection) – Under Sink.	$50.00
15250	Annual Filter Change, on-site (not including filters, which are priced above) including filter flushing as required	$125.00
22697	Annual Filter Change, (not including filters) including flushing of all filters, at the Aviva location.	$75.00
11852	¼” John Guest Union “T” to allow two outputs from one input, to allow connection to a refrigerator, second tap, etc.	$5.00
97xx	¼” BPA Free Linear Low Density Polyethylene Tubing (LLDPE), per foot (White (9678), Blue (9679), or Red (9680))	$1.00

ANNUAL COST TO OPERATE: APPROXIMATELY $320.00
MONTHLY COST: $26.67
WEEKLY COST: $6.15
DAILY COST: 0.88
COST PER GALLON: $0.18
COST PER LITRE: 3.9 CENTS
5 YEAR LIMITED WARRANTY
Designed, Engineered, and Tested by Nathan Zassman, President
OPUS WATER PURIFICATION SYSTEMS

Customer Support

OPUS Healthy
Water Systems
Available at Aviva
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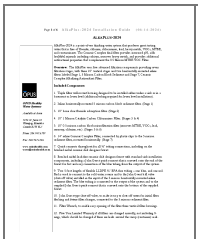
Documents / Resources

	OPUS ALKAPLUS-2024 Water Purification System [pdf] Installation Guide ALKAPLUS-2024, ALKAPLUS-2024 Water Purification System, Water Purification System, Purification System, System

References

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- User Manual