WELLICIOUS

Wellicious is a point-of-use drinking water system designed for water from a drilled well that produces hard water,, however it may also be used for municipal water supplies that do not add fluoride or chloramines, but that have high levels of dissolved minerals or discolored (brown) water. It can also protect domestic and commercial coffee and tea systems (including espresso systems) from mineral buildups that can damage heating elements and water boilers.

The system features a horizontally mounted 5 micron dirt/rust/sediment filter, a horizontally mounted water softening filter, 3 lbs of KDF Media and GAC for the removal of a wide range of chemicals and contaminants, a very high capacity 1 micron pleated carbon filter, and a final 0.5 micron carbon block filter that removes up to 99.5% of cryptosporidium, mercury, lead, giardia, , entamoeba and toxoplasma cysts to ensure great-tasting, contaminant-free water.

WelLicious consists of five advanced filtration components providing eight stages of filtration.

Included Components:

1. Triple filter wall mount unit for installation under a sink or in a basement, to allow easy access to the system for future filter changes.

2. 5 micron inline dirt/rust/sediment filter attached by two 2" plastic clips to the top of the unit (Stage 1)

3. 14" Water Softening Filter, attached by plastic clips to the 5 micron sediment filter, and mounted horizontally. Using water softening ceramics, ion exchange resin and activated carbon, this unique filter reduces excess magnesium and calcium (lime), while maintaining the alkalinity of the source water. No sodium is added to the water in this process. (Stage 2)

4. 10" Two Stage Filter: 3 lbs KDF Media + Granulated Activated Carbon (Stage 3 & 4)

5. 10" 1 Micron Pleated Carbon High Capacity taste and odor filter (Stage 5 and 6)

6. 10" 0.5 micron carbon block microfiltration filter that removes MTBE, VOCs and chlorine, with 95% removal of lead and mercury, and particles as small as 0.5 microns. (Stage 7 & 8)

7. Quick connects throughout for all ¼" tubing connections, including on the beautiful brushed nickel ceramic disk designer faucet.

8. Brushed nickel lead-free ceramic disk designer faucet with normal sink installation components, including a John Guest quick connect screwed onto the end, for quick and easy connection of the blue tubing from the output of the system.

9. Two 5 foot lengths of flexible LLDPE ¼" tubing – one blue, and one red. Red is used to connect to the cold water source and to the water input of the John Guest ball valve (shut off valve). The blue tubing is connected to the output on the right side of the system and to the supplied John Guest quick connect that is screwed onto the bottom of the supplied faucet.

10. John Guest ball valve, a convenient shut off valve that is installed with a short piece of ¼" tubing on the left side of the system (water input). This shut off valve makes it easy to turn off the water to the system for filter flushing and filter changes.

11. Filter Wrench, to enable easy opening of the vertical filter housings.

12. Five Year Limited Warranty

OPUS Healthy Water Systems

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WelLicious Filtration System Description: *Using three different types of carbon technology that filter down to 0.5 micron and a water softening pre-filter that removes excessive levels of calcium and magnesium without the addition of sodium, WelLicious produces great-tasting perfectly clear water that removes up to 99% of chlorine, lead, heavy metals, MTBE, VOCs and contaminants, while maintaining desired pH (alkalinity). A special feature of Wellspring, is the inline Soft Water (SW) filter, designed to soften water that is high in minerals without the addition of sodium, as is used in standard water softeners. For water that is especially high in minerals, I recommend adding the Calmat, an electrical system that uses electrical impulse technology to change the structure of the minerals, so the minerals are no longer "sticky," preventing the minerals from clogging pipes and harming water heater elements, allowing them to be washed away easily.*

Stage 1 – 5 Micron Dirt/Rust/Sediment Filter: In normal use, this filter, which is mounted horizontally on the top of the unit by two 2" plastic clips***, 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, or, at minimum, annually.

This filter is labeled **Stage 1 – 5 Micron Sediment Filter** on the filter unit.

Stage 2 – OPUS SW Filter: Horizontally Mounted, this filter is ideal for well water or water that normally would require a water softener, but unlike standard water softeners, the OPUS SW filter does not add sodium to the water. Rated life: Six months, or 5000 - 7000 litres. (two are included with purchase).

Stage 3 & 4 – 3 lb KDF Media + Granulated Activated Carbon (GAC): This is the left vertical stage of the unit. This two stage filter includes 3 pounds of KDF media and granulated activated carbon (GAC). KDF media is a copper-zinc formulation that utilizes electrochemical 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 antibacterial, algaecitic, and fungicitic effect, and may reduce the accumulation of lime scale. Change this filter annually, even if less than 5 gallons per day is purified.

This filter is labeled **Stage 3 & 4 – KDF/GAC** on the metal frame above the filter.

3. Stage 5 & 6 – 1 Micron High Capacity Pleated Carbon Filter. Installed in the middle (center) vertical stage, this filter has the highest capacity for removing sediment, blocking all particulate matter down to 1 micron, without affecting water pressure. This filter must be changed annually even if less than five gallons of water are filtered daily. This filter has multiple functions, including

- Trapping particles as small as 1 micron, including particles from the KDF/GAC filter in the left vertical stage (which is why it is critical to flush the KDF/GAC filter prior to installing this, and the 0.5 micron filter (Stage 7 & 8).
- Adsorbing chlorine if used in to filter municipal water that uses chlorine
- Improving taste and odor.
- Ensuring water is crystal clear and great tasting.

This filter is labeled **Stage 5 & 6 High Capacity 1 Micron Pleated Carbon** on the metal frame above the right vertical stage of the unit.

4. Stage 7 & 8 – 0.5 Micron MTBE/VOC/Lead/Mercury Microfilter: This is the right vertical stage of the unit. This filter must be changed annually even if less than five gallons of water are purified daily. This filter has multiple functions, including:

- Trapping particles down to 0.5 microns (Stage 7).

- Removes chlorine, odors, dissolved and particulate lead, mercury (up to 99.5% removal rate for lead and mercury), giardia, cryptosporidium, entamoeba and toxoplasma cysts. A unique feature of this filter, which makes it especially important for well water, is the filtration of MTBE and VOCs – contaminants that very few filtration systems can remove. (Stage 8)

This filter is labeled **Stage 7 & 8 – 0.5 Micron VOC/MTBE Carbon Filter** on the metal frame above the filter.

INSTALLATION INSTRUCTIONS

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 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, or even a butter knife 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.

STEP 1 – Install the Supplied Faucet to Your Sink

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 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 connect your cold water pipe and to the input of the system. We recommend SharkBite U362 ½" TEE, and a Dahl straight shutoff ball valve (1/2" PEX ¼" OD).

Connect the supplied 5 foot length of ¼" red tubing from the cold water source to the Freedom water input on the left side of unit. If the tubing is too long, use a tube cutter designed for ¼" tubing to make it shorter.

Connect one end of the supplied 5 foot length of ¼" blue water output tubing to the supplied faucet. The other end of the blue tubing is inserted into the output on the right side of the unit, by pushing the tubing into the quick connect.

Important: **Before use, the filters must be flushed as described on Page 4 (next page).**

Preparation for Filter Flushing: Important!!!

STEP 2 – The first flushing step flushes the special water softening filter. Connect the ¼" tubing that connects to the faucet to the output of the "Water Softening Filter," which is an elbow with quick connect that it connected to the left side of the Water Softening Filter. Source water should be connected (input) to the blue and white ball valve that is connected to the quick connect input on the 5 micron horizontally mounted filter. Insert the ¼" tubing that connects to the faucet to the output (left side as you face the unit) of the water softening filter (Quick Connect Elbow). Turn on the water to the system and flush this filter for a minimum of 30 minutes. The small piece of tubing that connects the water softening filter to the left side input, will be disconnected when you receive the unit. This will be reconnected after this step.

STEP 3 – After flushing the water softening filter, connect the small piece of white tubing, which connects the output of the water softening filter (John Guest Elbow Quick Connect) to the left side of the WelLicious unit.

STEP 4 – To prepare for flushing the Stage 3 & 4 KDF/GAC Filter installed in the left vertical housing, remove the filters from the center and right vertical filter housings, which are the two stage (Stage 5 & 6) 1 micron high capacity pleated carbon from the centre sump, and the 0.5 micron MTBE/VOC (Stage 7 & 8) carbon block filter (white with green caps on each end) installed in the right sump. A filter wrench is included to help open the filter containers.

Using the filter wrench, unscrew (turn to the left to open) the vertical white filter housings on the centre and right side of the unit and remove the filters which are installed when the unit is shipped. The filters are labeled "**Stage 5 & 6 High Capacity 1 Micron**" (grey pleated material with white caps on each end), and "**Stage 7 & 8 0.5 Micron VOC/MTBE**" filter (white filter with green caps on each end) on the metal housing above the filters.

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 them prior to re-installing after flushing.

After opening the filter housing and removing the filters from the centre and right filter housings, replace the empty filter housings by turning to the right. Make sure the black O-ring is properly seated in the groove of the white filter housings before screwing it onto the system, or the system can leak. The centre and right housings must be empty to allow flushing of the KDF/GAC filter.

STEP 5 – KDF/GAC Filter Flush

With the 1 micron pleated carbon filter removed from the centre housing, and the 0.5 micron MTBE/VOC filter removed from the right filter housing, turn on the water to the system by first opening the faucet (turn handle downwards), and opening the John Guest shut off valve that is connected to the horizontally mounted inline 5 micron dirt/rust/sediment filter. Allow water to pass through the system for 15 minutes to flush the KDF/GAC filter of fine particulates.

STEP 6 – Install the 1 micron pleated high capacity carbon filter in the centre (middle) stage.

After you have flushed the KDF/GAC filter as described in step 3, install the 1 micron high capacity pleated carbon (gray in color, with white caps on each end) in the centre filter housing. This filter can be installed in either direction. Tighten the housing container with the included filter wrench, and make sure the black plastic O-Ring is in the groove of the filter housing prior to screwing it on. Flush this filter for 5 minutes.

STEP 7 – Install the 0.5 micron MTBE/VOC filter in the right vertical filter housing.

After you have flushed the 1 micron high capacity pleated carbon filter, turn off the water by closing the John Guest ball valve. Leave the faucet open to ensure no water is flowing through the unit.

Unscrew the Stage 7 & 8 vertical filter housing on the right using the supplied filter wrench and install the 0.5 micron MTBE/VOC 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 0.5 micron filter for five minutes.

The system is now ready to use. Remember to change the Water Softening Filter eveyr six months, and the other filters annually, although the 5 micron sediment filter may require more frequent changes, depending on water quality. If water pressure drops to unacceptable levels, change the 5 micron sediment filter (Stage 1).

WelLicious Description

PLU	Model	Height	Width	Depth	Flow Rate	Description	Price
23825	WelLicious	17"	17"	6"	2 - 4 Litres Per Minute	5 Filter, 8 stage water purification system, with 5 micron sediment, SW Water Softening Filter (x 2), KDF + GAC Filter, 1 Micron High Capacity Pleated Carbon Filter, and 0.5 micron final polishing filter.	$499.99

OPTIONS FOR FREEDOM:

- Germicidal ultraviolet water purification filter (requires AC power), with flow-restricted 0.5 micron MTBE/VOC filter (replaces standard 0.5 micron MTBE/VOC Filter) - $269.99
- Upgrade to designer ceramic disk NSF certified faucet - $60.00
- John Guest Union "T" to allow connection to a refrigerator or second tap - $5.00

WelLicious Filter Change Pricing and Frequency

PLU	Model	Stage	Location	Function	Change	Price
23788	5 Micron Sediment Filter	1	Top of Unit	Removes Dirt/Rust/Sediment	6-12 months	40.00
23457	SW Water Softening Filter	2	Top of Unit	Softens Water Without Sodium	6 Months $50.00 x 2	100.00
9395	3 lb. KDF + GAC	3 & 4	Left Vertical	Chlorine, Heavy Metals, THMs	1 Year	120.00
22491	1 Micron Pleated High Capacity Carbon	5 & 6	Centre Vertical	High Capacity Sediment, Particulate Down to 1 Micron, Taste and Odor	6 Months $50.00 x 2	80.00
14256	0.5 Micron MTBE/VOC, Toxoplasma Cysts	7 & 8	Right Vertical	0.5 Micron Microfiltration, removing lead, mercury, MTBE, VOC, chlorine.	1 Year	50.00
23823	**Annual Filter Change**	**All**	**All**	**Annual Kit with 6 Filters**	**1 Year**	**$390.00**

Winnipeg Installation Options

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
11852	¼" John Guest Union "T" to allow two outputs from one input, to allow connection to a refrigerator, second tap, etc.	$5.00
	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 $390.00
MONTHLY COST OF OPERATION: $32.50; WEEKLY COST OF OPERATION: $7.50
DAILY COST OF OPERATION: $1.07 COST PER GALLON: $0.21 COST PER LITRE: $0.047
5 YEAR LIMITED WARRANTY

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