

Active Carbon Filter

The Alkal-life 7000sL™ serves two functions. It is an effective water filtration device and it can produce -838 ORP ionized water. The Alkal-life7000sL™ contains the Active Carbon Filter. This filter scrubs your water clean as it passes through 4 layers of filter technology.

Tap water flows through the filter from the bottom up. Follow the arrows and read the description to learn how tap water becomes filtered.

1. Sediment (Pre-filter) Layer

Fine particles of five microns or more are easily trapped in the sediment filter. Made from 100% polypropylene microfibers, the sediment filter has exceptional holding capacity. The mechanical filtering process eliminates a variety of impurities such as dirt, dust, and rust. This initiates the purification process and prolongs the life of the filter.

2. Non-woven Fabric Layer

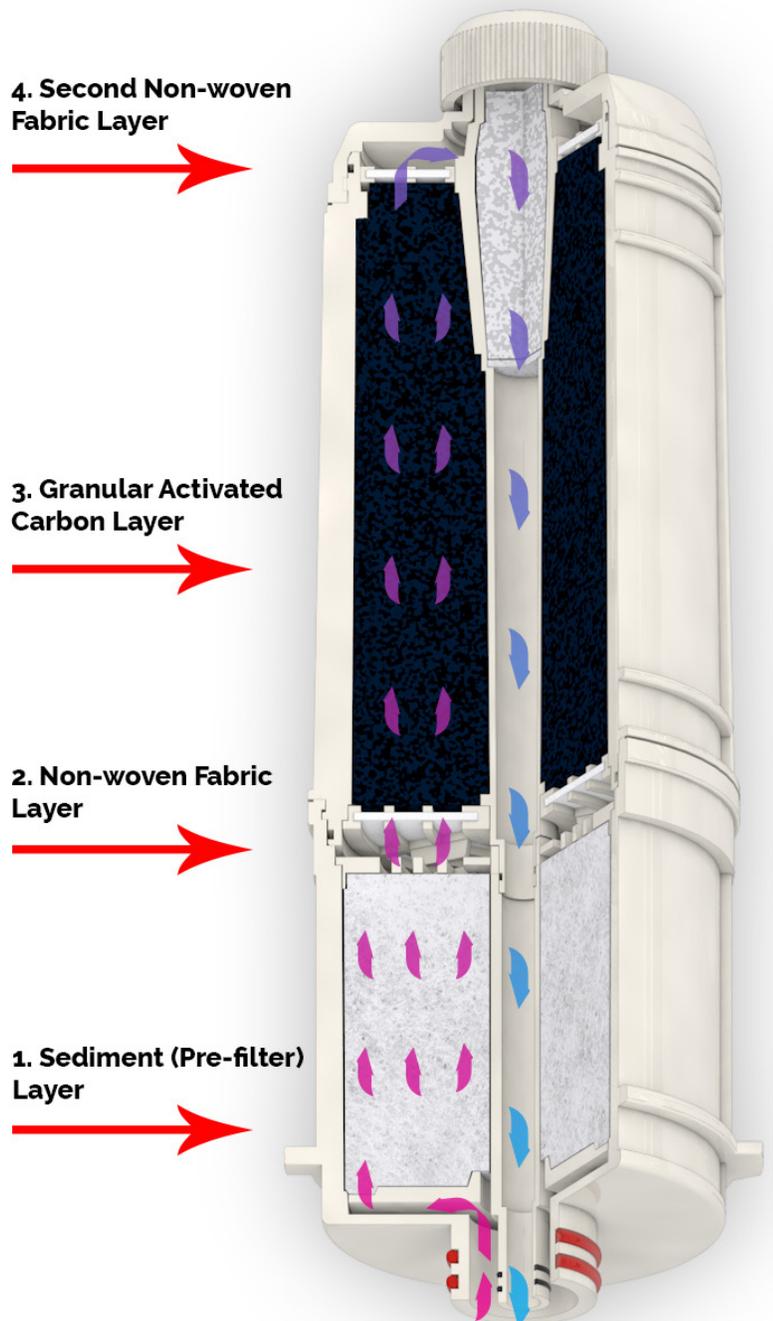
Non-woven fabrics are engineered for a variety of uses and have wide ranging applications. Due to its excellent filtration properties and durability, non-woven fabrics are being used in surgical and industrial applications. The Alkal-life 7000sL™ employs a non-woven fabric specifically designed to filter out particles and be the next line of defense.

3. Granular Activated Carbon Layer

The extremely fine cavities in the granular activated carbon filter trap the tiniest contaminants. The highly absorbent filter is made from coconut peels that have been processed at high temperatures, making it suitable for removing and absorbing organic (i.e. trihalomethanes and bacteria) and non-organic (i.e. chlorine and arsenic) compounds, odor and gaseous substances.

4. Second Non-woven Fabric Layer

As a final step, water passes through another layer of this special filter to trap any remaining particles. This ensures the purest, cleanest, and clearest drinking water.



Active Carbon Filter

Product Information & Test Results

Product information

Active Carbon Filter

The Active Carbon Filter will fit in the Alkal-Life 7000sL™ or the S-Filter.

Each filter filters 792.5 gallons (3000 liters) of water.

Replace filter when Alkal-Life 7000sL™ counter reaches 999.

Replacement Filters

Individual replacement filters can be ordered from Richway & Fuji Bio's order department or from a Richway & Fuji Bio ISA. Richway also offers a discount program for those who want to buy six filters at a time (visit our website for more information).

Cleaning and Maintenance

For optimal performance, we recommend using the Cleaning Filter with the Alkal-Life 7000sL™ before installing a new filter. Additionally, you will need to use the Cleaning Filter if hard water deposits (white flakes) are present in the Alkal-Life 7000sL's water output.

Test

Total colony counts

Total coliforms

E. Coli

Lead

Fluoride

Arsenic

Selenium

Mercury

Cyanide

Chromium

Ammonia Nitrogen

Nitrogen

Cadmium

Boron

Phenols

Diazinon

Parathion

Fenitrothion

Carbaryl

Trihalomethane

Chloroform

1.1.1.-Trichloroethane

Tetrachloroethylene

Trichloroethylene

Dichloromethane

Benzene

Toluene

Ethylbenzene

Xylene

1,1-Dichloroethylene

Carbon Tetrachloride

Residual chlorine

Chloral hydrate

Dibromoacetonitrile

Dichloroacetonitrile

Trichloroacetonitrile

1,2-dibromo-3-chloropropane

Haloacetic acids

Copper

Zinc

Chlorine ion

Total Solids

Iron

Manganese

Aluminum

Turbidity

Sulfuric Acid

Bromodichloromethane

Dibromochloromethane

Unit

CFU/mL

-/100ml

-/100ml

mg/L

NTU

mg/L

mg/L

mg/L

Result

Not Detected

1.2

Not Detected

.001

Not Detected

13

88

Not Detected

Not Detected

Not Detected

.31

14

Not Detected

Not Detected

S-Filter

The S-Filter comes with a Coral Calcium Mineral Filter and an Ultra-Filtration Membrane Filter. This basic set up is recommended for those with well water or for those who are using a reverse osmosis (RO) system at home. The S-Filter requires no power to operate and can easily connect to your Alkal-Life 7000sL™.

Tap water flows through the filter from the bottom up. Follow the arrows in the diagram to the right, and read the description to learn how tap water becomes filtered.

1. Special Fiber Pad Layer

The special fiber pad functions similarly to the sediment (pre-filter). It stops larger particulates from entering the granular activated carbon filter.

2. Granular Activated Carbon Layer

The extremely fine cavities in the granular activated carbon filter trap the tiniest of contaminants. The highly absorbent filter is made from processed coconut peels which have been processed at high temperatures making it suitable for removing and absorbing organic (trihalomethanes and bacteria) and non-organic (chlorine and arsenic) compounds, odor and gaseous substances.

3. Calcium Sulfit Layer

The water you drink may be sterilized with chlorine. To remove the residual chlorine from your water, calcium sulfite is added to the UF Membrane Filter. Calcium sulfite removes 99.9% of residual chlorine, improving the taste and smell of your drinking water.

4. Double Non-Woven Fabric Layer

Non-woven fabrics are engineered for a variety of uses and have wide ranging applications. Due to its excellent filtration properties and durability, non-woven fabrics are being used in surgical and industrial applications. Two layers of non-woven fabric are incorporated into the UF Membrane Filter.

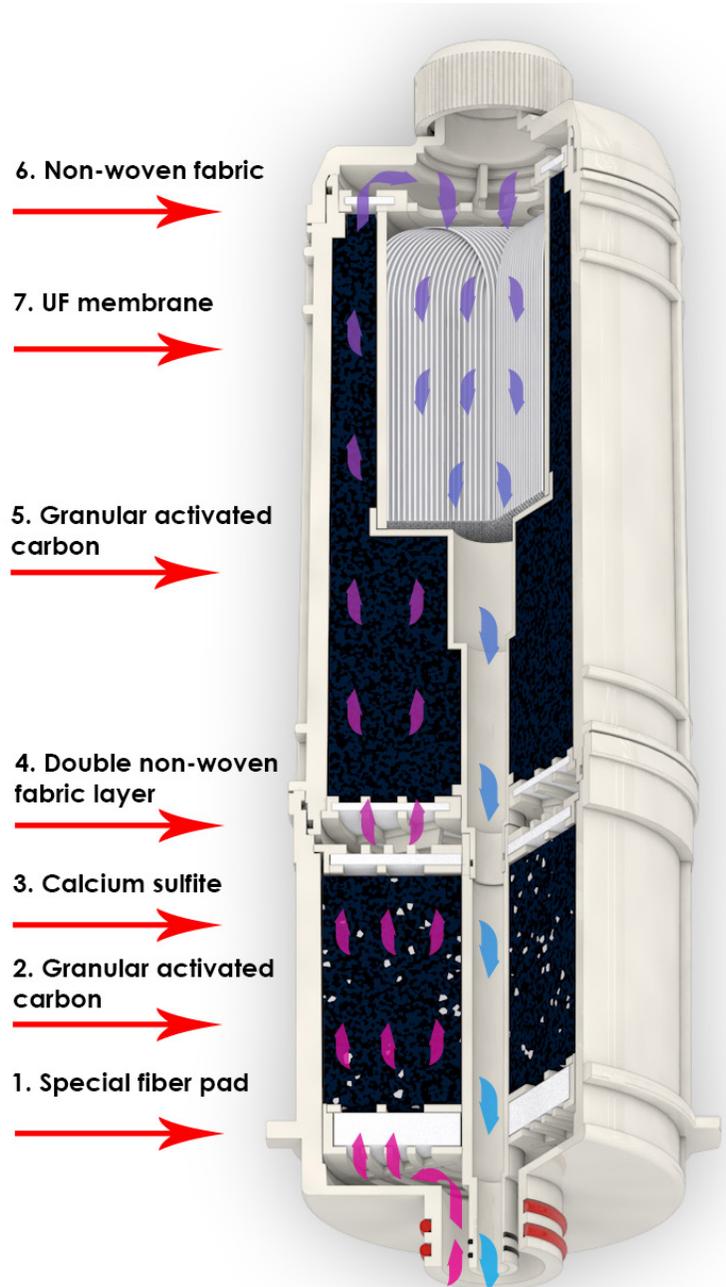
5-6. Second Granular Activated Carbon and Non-Woven Fabric Layers

Before exiting your tap, water again passes through a larger layer of granular activated carbon and non-woven fabric.

7. UF Membrane Layer

The patented UF membrane is a hollow fiber filter made up of hundreds of millions of fine cavities under one micron in size (0.1μ). The pore size is so small that impurities such as organic compounds, bacteria and viruses are removed when water passes through the UF Membrane.

UF Membrane Filter



S-Filter

Product Information & Test Results

Product information

UF Membrane Filter

The UF Membrane Filter will fit in the S-Filter only. It is the first of two filter stages. The UF Membrane Filter removes unwanted contaminants from your water source.

Coral Calcium Mineral Filter

The Coral Calcium Mineral Filter will fit in the S-Filter only. It is the second of two filter stages. The Coral Calcium Mineral Filter restores the vital minerals needed for the Alkal-Life 7000sL™ to produce quality ionized water.

Replacement Filters

For every other Active Carbon Filter change done for your Alkal-Life 7000sL™, you should replace the filter cartridges in your S-Filter.

S-Filter replacement filters come in a set of 2 (1 Coral Calcium Mineral Filter and 1 UF Membrane Filter) and can be ordered from Richway & Fuji Bio's order department or from a Richway & Fuji Bio ISA.

UF Membrane Filter test results

Test	Unit	Result
Total colony counts	CFU/mL	66
Total coliforms	-/100ml	Not Detected
Fecal coliforms	-/100ml	Not Detected
Lead	mg/L	Not Detected
Fluoride	mg/L	Not Detected
Arsenic	mg/L	Not Detected
Selenium	mg/L	Not Detected
Mercury	mg/L	Not Detected
Cyanide	mg/L	Not Detected
Chromium	mg/L	Not Detected
Ammonia Nitrogen	mg/L	Not Detected
Nitrates	mg/L	Not Detected
Cadmium	mg/L	Not Detected
Boron	mg/L	Not Detected
Phenols	mg/L	Not Detected
Diazinon	mg/L	Not Detected
Parathion	mg/L	Not Detected
Fenitrothion	mg/L	Not Detected
Carbaryl	mg/L	Not Detected
Trihalomethane	mg/L	Not Detected
Chloroform	mg/L	Not Detected
1,1,1.-Trichloroethane	mg/L	Not Detected
Tetrachloroethylene	mg/L	Not Detected
Dichloromethane	mg/L	Not Detected
Benzene	mg/L	Not Detected
Toluene	mg/L	Not Detected
Ethylbenzene	mg/L	Not Detected
Xylene	mg/L	0.001
1,1-Dichloroethylene	mg/L	Not Detected
Carbon Tetrachloride	mg/L	Not Detected
Residual chlorine	mg/L	Not Detected
Chloralhydrate	mg/L	Not Detected
Dibromoacetonitrile	mg/L	Not Detected
Dichloroacetonitrile	mg/L	Not Detected
Trichloroacetonitrile	mg/L	Not Detected
1,2-dibromo-3-chloropropane	mg/L	Not Detected
Haloacetic acids	mg/L	Not Detected
Copper	mg/L	Not Detected
ABS	mg/L	Not Detected
Zinc	mg/L	Not Detected
Chlorine	mg/L	15
Iron	mg/L	Not Detected
Manganese	mg/L	Not Detected
Aluminum	mg/L	.03
Total solids	mg/L	109
Turbidity	NTU	.10
Bromodichloromethane	mg/L	Not Detected
Dibromochloromethane	mg/L	Not Detected