

Excalibur Filter Systems

Choose Safe, Clean Water



Choose *Safe, Clean Water*

The safety and health of your family means everything. The quality of water that is consumed and utilized in your household may be laced with dangerous and volatile chemicals that could potentially put your family members at great risk.

Volatile and organic chemicals are dissolved in any water supply, either municipal or rural (water wells). Chemicals can cause serious health issues and should be removed from your working, cooking and bathing water supply.

Chemical Contamination

Volatile and organic chemicals are dissolved in any water supply either municipal or rural (such as water wells). The chemicals found in water can be as follows:

Vinyl Chloride, Carbon Dioxide, Carbon Monoxide, TCE, PCE, THM's, Chlorine, Chloramines, Lead, Benzene, Toluene, Dioxin, Ammonia, Radon, Dichloroethene, Algicides, Herbicides, Pesticides, Inks, Dyes, Degreasers, Paints, Fuel Oil, Solvents, Mercury, Boron, Aluminum, Fluoride, Barium, Nickel, Selenium, Strontium, Zinc, Uranium and MANY OTHERS.

The above chemicals can cause serious health issues and should be removed from your working, cooking and bathing water supply.

Tannins

Tannins are formed upon the decomposition of vegetation. These compounds are large molecular weight organics that fall under two large primary categories: Humic acids and Fulvic acids. These are simplified structures, but they show the complexity of tannins.

Tannins can cause a yellow to brown cast in water and may also impart a taste and odour. They will generally be found in surface water supplies or shallow wells. Although these compounds are not a health risk, they are aesthetically displeasing.

Turbidity

Turbidity is the cloudiness or haziness in a water supply caused by individual particles or suspended solids that are generally invisible to the naked eye, similar to smoke in air. The measurement of turbidity is a key test of water quality. The water can contain suspended solid matter consisting of particles of many different sizes. Some suspended material will be large enough and heavy enough to settle rapidly to the bottom. If a liquid sample is left to stand (the settleable solids), very small particles will settle only very slowly or not at all if the sample is regularly agitated or the particles are colloidal.

Uranium

Uranium is a naturally occurring weakly radioactive element. High levels of uranium in water may increase the risk of cancer and kidney damage. Most of the uranium that is ingested by food or drink by the human body is excreted, but some amounts are absorbed into the bloodstream and kidneys.

The health effects from ingesting uranium are caused primarily by chemical damage, not by the radioactivity. Uranium decreases the kidneys' ability to filter toxins from the bloodstream. These effects are reversible if the uranium contamination is eliminated.





Neutralizing (PH)

When water has a PH level of less than 7.0 the water is considered acidic as 7.0 is considered neutral. When the PH level of water is less than 6.5 PH is five times more acidic than neutral. Neutralization is required to raise the PH level back to neutral to eliminate any potential erosion and have all water treatment equipment work properly.

Nitrate/Nitrite

While Nitrate is non-toxic, it is reduced to Nitrite by bacteria in the stomach. Nitrite, once it enters the bloodstream, can reduce the body's ability to transport oxygen. Most vulnerable are infants under the age of six months who can suffer from 'Blue Baby Syndrome', kidney dialysis patients, the elderly and those with compromised immune systems. Nitrate intake has also been linked to many forms of cancer.

Lead

Lead is a highly toxic substance which can produce a wide range of adverse health effects. Both adults and children can suffer from the effects of lead poisoning, but childhood lead poisoning is more prevalent.

Drinking affected water can contribute to elevated blood lead levels. Lead can leach into drinking water from certain types of plumbing materials (lead pipes, copper pipes with lead solder, and brass faucet's). Also, it's important to note that formula-fed infants are at special risk for lead poisoning if their formula is made with lead contaminated water. When elevated blood lead levels are present in children under the age of six, serious brain and central nervous system health issues can occur.

Arsenic

Arsenic is a highly poisonous and toxic industrial chemical. Arsenic is a cancer causing carcinogen which has been linked to bladder, skin, kidney, liver, prostate and lung cancers.

Arsenic is not easily dissolved in water and can be found in water well supplies. It usually comes from mining, metallurgical operations or water run-off from agricultural areas where materials containing arsenic were used as industrial toxins in various soil formations.

Excalibur Filter Systems • Features & Benefits



NITRATES FILTER

Filter System Benefits:

Excalibur's Nitrate Filter Systems are controlled by a computerized chip that is programmed with the levels of nitrates and monitors the actual water usage patterns. It economically regenerates the unit only as needed and ensures the customer nitrate-free water at all times for the entire home. The computer adapts to a home water usage pattern and leaves a buffer to ensure there will be plenty of treated water available.

FEATURES:

- ◆ Fully electronic computerized nitrates filter.
- ◆ 12 volt transformer that utilizes minimal power consumption less than \$3.00 per year.
- ◆ Removes up to 100 PPM of nitrates.
- ◆ Nitrates filter regenerates with water softening salt (sodium chloride).
- ◆ Even if the nitrates filter bed is completely full, nitrates will not release back into the water.
- ◆ 10 year warranty.

Note: All water hardness, iron and hydrogen sulphide must be removed prior to nitrates filter.



NEUTRALIZING FILTER

Filter System Benefits:

Acidic water causes low PH, pin hole leaks from corrosion and damages household plumbing systems leaving blue/green stains on your plumbing fixtures. Excalibur Water Systems can eliminate corrosion of copper, and galvanized pipe and fittings, plumbing fixtures and appliances while simultaneously stopping pin hole leaks and preventing staining of fixtures with the Excalibur Neutralizing Filter.

FEATURES:

- ◆ Fully automatic backwashable neutralizing filter.
- ◆ 12 volt transformer that utilizes minimal power

consumption less than \$3.00 per year.

- ◆ Raises PH from 5.5 to neutral eliminating acidic water.
- ◆ Electronic control valve has high flow capacity to satisfy any water demand.
- ◆ Patented filter distributor that uses 30% less water during backwash reducing water consumption to drain.
- ◆ Chemical free system.
- ◆ Bypass valve for easy installation and service.
- ◆ Neutralizing media to be replenished annually to maintain acid free water.
- ◆ 10 year warranty.



Excalibur Filter Systems • Features & Benefits



TURBIDITY FILTER

Filter System Benefits:

Turbidity is the cloudiness or haziness in your water supply caused by individual particles or suspended solids such as sediment, dirt and grit. The turbidity in your water supply leaves a sediment residual in your household plumbing systems, plumbing fixtures and appliances. The automated Excalibur Water Systems Turbidity Filter removes the sediment, dirt and grit from your water supply eliminating sediment buildup throughout your household.

FEATURES:

- ◆ Fully automatic backwashable turbidity filter.
- ◆ 12 volt transformer that utilizes minimal power consumption less than \$3.00 per year.
- ◆ Patented filter distributor that uses 30% less water during backwash reducing water consumption to drain.
- ◆ Reduces turbidity in your water supply to below 3 micron filtration.
- ◆ No filter cartridges to replace.
- ◆ Chemical free system – no chemicals or water softening salt to purchase.
- ◆ 10 year warranty.



CHEMICAL REMOVAL FILTER

Filter System Benefits:

Volatile and organic chemicals are dissolved in any water supply either municipal or rural (water wells, lakes and rivers). The chemicals found in your water are numerous and can cause serious health issues. The Excalibur Water Systems Chemical Removal System can take out most volatile and industrial chemicals, providing safe, clean water.

FEATURES:

- ◆ Fully automatic backwashable chemical removal filter.
- ◆ 12 volt transformer that utilizes minimal power consumption less than \$3.00 per year.

- ◆ Patented filter distributor that uses 30% less water during backwash reducing water consumption to drain.
- ◆ Removes most chemicals in your water supply such as chlorine, chloramines, Volatile and industrial chemicals, providing safe, clean water.
- ◆ Chemical free system – no chemicals or water softening salt to purchase.
- ◆ No filter cartridges required.
- ◆ 10 year warranty.

Note: All water hardness, iron and hydrogen sulphide must be removed prior to the chemical removal filter.

Excalibur Filter Systems • Features & Benefits



LEAD FILTER

Filter System Benefits:

Lead is a highly toxic substance that can produce a wide range of adverse health effects. Both adults and children can suffer from the effects of lead poisoning, but childhood lead poisoning is more prevalent. The Excalibur Water Systems Lead Removal System can take out lead content from your water supply providing safe water.

FEATURES:

- ◆ Fully automatic backwashable lead removal filter.
- ◆ 12 volt transformer that utilizes minimal power consumption less than \$3.00 per year.
- ◆ Patented filter distributor that uses 30% less

water during backwash reducing water consumption to drain.

- ◆ Removes lead content from 250 PPB to below 10 PPB – well below acceptable Gov't standards.
- ◆ During the Excalibur Lead Filter's backwash cycle the lead is not discharged to drain.
- ◆ Patented filter distributor that uses 30% less water during backwash reducing water consumption to drain.
- ◆ No filter cartridges required.
- ◆ Chemical free system – no chemicals to purchase.
- ◆ 10 year warranty.

Note: All water hardness, iron and hydrogen sulphide must be removed prior to lead filter.



ARSENIC FILTER

Filter System Benefits:

Arsenic is a highly poisonous and toxic industrial chemical. Arsenic is a cancer causing carcinogen which has been linked to bladder, skin, kidney, liver, prostate and lung cancer. The Excalibur Water Systems Arsenic Filter System removes 99% of arsenic from your water providing safe water.

FEATURES:

- ◆ Fully automatic dual backwashable arsenic filter.
- ◆ 12 volt transformer that utilizes minimal power consumption less than \$3.00 per year.
- ◆ Patented filter distributor that uses 30% less

water during backwash reducing water consumption to drain.

- ◆ Removes 99% of arsenic contamination from your water supply.
- ◆ During the Excalibur arsenic filter backwash cycle, the arsenic is NOT released from the arsenic removal media.
- ◆ Chemical free system – no chemicals or water softening salt to purchase.
- ◆ No filter cartridges to buy.
- ◆ Increased contact time for superior arsenic removal.
- ◆ 2 year warranty.

Note: All water hardness, iron and hydrogen sulphide must be removed prior to arsenic filter.

Excalibur Filter Systems • Features & Benefits



TANNINS FILTER

Filter System Benefits:

Tannins are formed upon the decomposition of vegetation in lakes, water wells, rivers and from acid rain. These organic compounds are large molecular weight organics that fall under two large primary categories: Humic acids and Fulvic acids. The Excalibur Water Systems Tannin Filter removes the tannin organics from your water supply.

FEATURES:

- ◆ Fully electronic computerized tannin filter.
- ◆ 12 volt transformer that utilizes minimal power

consumption less than \$3.00 per year.

- ◆ Removes up to 3 PPM of organic tannin compounds from your water.
- ◆ The tannins filter is regenerated with sodium chloride (water softening salt) to clean the tannin filter.
- ◆ 10 year warranty.

Note: All water hardness, iron and hydrogen sulphide must be removed prior to the tannin filter.



URANIUM

Filter System Benefits:

High levels of uranium in your water may cause cancer or kidney damage. The uranium in your water will be removed by the Excalibur Uranium Filter eliminating potential health issues.

FEATURES:

- ◆ Removes 99% of uranium from water.
- ◆ Excalibur's Uranium filter regenerates with water softening salt (sodium chloride).

- ◆ Fully programmable control valve. Energy efficient using less than \$3.00 of electrical power per year (12 volt).

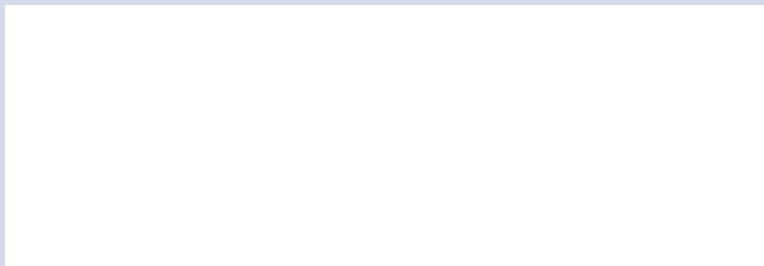
- ◆ Flow rate up to 20 GPM.

- ◆ 10 year warranty.

Note: All water hardness, iron and hydrogen sulphide must be removed prior to the uranium filter.



Authorized Dealer:



EXCALIBUR WATER SYSTEMS
TF. 877.733.8999 E. info@excaliburwater.com
www.excaliburwater.com