



The Cedar Springs Platinum Water Conditioners (Soft Water Plus Chlorine Reduction)

Platinum Water Conditioners will remove hardness (calcium & magnesium) as well as reduce chlorine, chloramines, VOC's, & THMs. Hardness is dissolved calcium and magnesium salts in water. It comes from dissolved rocks such as common limestone (calcium carbonate and magnesium carbonate), gypsum (calcium sulfate), Epsom salts (magnesium sulfate), calcium chloride, and magnesium chloride.

The Platinum water softeners will virtually eliminate

1. Reduced water flow and eventual plugging.
2. Premature water heater burn out.
3. Poor laundry results.
4. Scale ring at water level in toilets.
5. Poor laundry economy.
6. Permanent water spots and deposits.
7. Poor cooking results.
8. Reduced life of laundered goods.
9. Increase in energy costs

WATER SOFTENER BENEFITS

- Your hot water tank will have a longer life as the Water Softener keeps the hot water tank free of hard water scale buildup in the tank and on the heating element.
- All appliances will last longer such as dishwashers, washing machines, coffee pots, humidifiers, kettles and hot tubs will all be free of hard water buildup and operate more efficiently.
- When using soft water your hot water heating costs will be reduced by up to 24% as we eliminate hard water buildup.
- When using laundry soaps, fabric softeners, dishwashing detergents, body wash and soaps and all other cleaning products, you will require less than half the amount with a water softener cutting your cleaning costs more than 50%!
- No more soap buildup on your skin. Skin will be softer and healthier when it's natural oils are allowed to remain and are not covered up by hard water. Less soap is needed to cleanse your skin. This is especially important with younger children. Their skin is usually more delicate and sensitive to the irritants that are found in many soaps and cleaning products. Remember, with soft water a little shampoo and soap goes a very long way. Hair is softer and easier to manage when there isn't a buildup of minerals coating it, this means it's easier to brush and de-tangle. If you color your hair it will keep its radiance longer if it's washed in soft water.
- Your clothes will last longer and remain brighter longer if they are washed in soft water. The reason is that hard

water leaves mineral particles in the weave of most fabrics. This causes them to look dull and dingy.

- Scrubbing floors and tiles will be easier and faster because you won't have the hardwater film and soap scum that hard water creates.
- Soft water saves you money:
 - up to 70% soaps and cleaning products
 - up to 24% heating costs.

Studies show a family of 4 on 10grain hard water may save as much as \$92.00 per month with soft water.

Finally Soft Water

Imagine softer skin, shinier hair, smoother shaving, dishes and glassware that sparkle and shine, laundry that washes brighter and comes out softer and lasts longer, plumbing fixtures and appliances that are protected against corrosion and hard water buildup. Sounds like a dream? Well with a Water Softener, this dream can become a reality.

Chlorine, Chloramines & Organic Compounds

The liquid form of Chlorine is a water additive used by municipal water systems to control microbes and bacteria. Chlorine is a powerful oxidant and when utilized in water treatment it and some of its compounds can cause many problems. Chlorine levels can be consumed through drinking water, absorbed through your skin bathing, and through ingestion of chlorine gas in the shower which all cause health issues. One can absorb up to eight glasses of water in a ten minute shower with studies linked to measurable increases in certain types of cancer. Studies also show up to 2/3 of harmful exposure to chlorine is chlorine with ammonia to stabilize the chlorine. The Ontario Drinking Water Guideline (MAC) maximum acceptable concentration for Chloramines is 3.0 mg/L.

Volatile Organic Chemicals (VOC's)

		<u>Volatile Organic Chemicals (VOC's)</u>	
<u>Health Effect</u>	<u>VOC</u>	<u>Health Effect</u>	<u>VOC</u>
Cancer	Ethylbenzene	Cancer	Benzene
cancer	Pentachlorophenol	Cancer	Carbon Tetrachloride
Liver, Nerve Damage	Styrene	Kidney Damage	Dichlorobenzene
Cancer	Toluene	Cancer	Dichloroethane
Cancer	Dichloropropane	Liver, Kidney Damage	Dichloroethene
Cancer	Dichloromethane	Liver, Nerve Damage	Trichloroethane
Liver, Kidney, Blood Damage	Dichlorobenzene	Cancer	Trichloroethylene
Cancer	Hexachlorobenzene	Cancer	Vinyl Chloride
Liver, Kidney Damage	Trichlorobenzene	Cancer	Dibromochloropropane
Liver, Kidney Damage	Trichloroethane	Cancer	Ethylene Dibromide

Trihalomethanes (THMs)

Trihalomethanes (THMs) are chemical compounds in which three of the four hydrogen atoms of methane (CH_4) are replaced by halogen atoms which find many uses in industry as solvents or refrigerants. They result from the reaction of chlorine with organic matter already present in the water being treated. The THMs produced have been associated through epidemiological studies with adverse health effects. There are set limits on the amount permissible in drinking water, however trihalomethanes are only one and it has not yet been clearly demonstrated which of these are most plausible candidate for causation of these health effects. The Ontario Drinking Water Guideline (MAC) maximum acceptable concentration for trihalomethanes (THMs) is 0.10 mg/L based on a four quarter moving annual average of tests results.

THMs are the most widely occurring synthetic organics found in chlorinated drinking water. The four most commonly detected THMs are chloroform, bromodichloromethane, chlorodibromomethane, and bromoform.

The whole house carbon filter will reduce and remove all the above except for the hard water.

