

Battelle Institute Study Recently Reveals Soft Water Benefits

Significant savings in energy use as well as maintenance.

The *Battelle Memorial Institute* (www.battelle.org), is a private nonprofit applied science and technology development company that explores emerging areas of science, develops and commercializes technology, and manages laboratories for customers.

They state even the most efficient water heater you might buy becomes even more efficient when it uses softened water.

- Softened water can prevent a 10-percent drop in energy usage in a tank-less water heater in just two years.
- Soft water also eliminates the need for regular scale removal.
- Soft water can amount to a 47-percent decrease in the cost of operating and maintaining the appliance.
- Soft water use has on the longevity of the home's plumbing and on all water-using appliances. Showerheads operability is affected in a matter of months.

The water heater is the second greatest user of household energy and homeowners have been switching to energy efficient appliances. The average rate of scale buildup in the gas storage water heaters on un-softened water was 528 grams per year, compared to 7 grams per year on softened water. The average rate of scale buildup in the electric storage water heaters was 907 grams per year on un-softened water, compared to 14 grams per year on softened water.

Most manufacturers of water-using appliances recommend they be used with soft water and appliance manufacturers will void warranties when breakdowns occur from water scale buildup.

Dedicated environmentalists, a reduced carbon footprint of 18 percent is achieved on zero-gpg soft water over the same gas water heater operating on 26-gpg hard water for 15 years.

Additional research findings.

Low-Flow Showerheads: Un-softened water clogged after an average of 3,203 gal of flow.

Low-Flow Faucets: Faucets on un-softened water clogged after the equivalent of 19 days of flow, estimating an average household water usage of 50 gal of hot water per day.

Dishwashers and Clothes Washers: After 30 days of testing and 240 wash cycles, the appliances using un-softened water had "noticeable scale buildup,"

Use of InjectaFLO , SCALE SOFT, and or SCALE LIQUIDATOR can be used to assist with the above concerns for operation, maintenance of plumbing, appliances, water heaters, shower and other household water related plumbing fixtures.

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