Limescale and how it Costs You……..

In the U.S. 85% of homes and businesses are in hard water areas. Hard water forms **limescale** in appliances, plumbing, fixtures and equipment. *Limescale* is one of the largest causes of wasted energy in the world. It collects on surfaces and forms hardened crystal structures that prevent heat from being transferred. This hardened scale is very difficult to remove. **Limescale** build-up dramatically increases the energy cost for operating water heaters, boilers, heat exchangers, and plumbing systems in the home, commercial businesses, and industry. An analogy would be like trying to heat water through a thin brick wall. It is an excellent insulator causing inefficiency and wastes precious energy.

Other costs of *limescale* are often taken for granted. The amount of hard work and time combined with the amount of cleaners, soaps, and chemicals used for cleaning **limescale** from drains and surfaces adds to the costs. There is the cost of maintenance and replacement of all appliances that use untreated water. Coffee makers, ice machines, water heaters, dishwashers, shower heads and sometimes all the plumbing pipes need replacing sooner than need be. The costs for *limescale* deposits are highly evident in every home and business.

Water heaters that form one-quarter inch of **limescale** can increase energy use by as much as 40%. In cases where the *limescale* builds up to 1 inch, there is a 95% reduction in heat transfer. In water heaters the cost of operation exceeds the cost of the unit itself. Because the effects of **limescale** are so extensive and widespread, it is difficult to accurately gage the costs of the problems. Estimates are often in excess of 100 billion dollars per year in the U.S. alone. This is probably a very conservative estimate.

*The **Ecoflow Catalytic Water Conditioner** can benefit most of the United States in reducing limescale build up and eliminate the waste water dumping from water softeners. There is no doubt that water hardness is one of the most common of all water problems. Its presence costs industry and consumers millions of dollars annually in equipment and plumbing maintenance and replacement. A U.S. geological survey study shows that hard water is found in 85% of the United States.*