

Water Conditioning – Technologies that improve life, efficiency and economics.

Pure Water is H₂O = (Di-Hydrogen Monoxide), 2 Hydrogen Ions (H₂⁺⁺) plus 1 Oxygen Ion (O⁼).

Naturally occurring water is H₂O plus other ions, primarily: Calcium Bicarbonate Ca(HCO₃)₂, Calcium Carbonate CaCO₃, Manganese Bicarbonate Mn(HCO₃)₂, Magnesium Sulfate MgSO₄, Sodium Chloride NaCl, and Ferrous Sulfate FeSO₄, **which may be problematic for some applications.**

Pre-conditioning water, using processes such as chemical precipitation / lime softening / lime soda softening, Ion exchange, halogen addition for microbiological control, carbon filtration, reverse osmosis, nano-filtration **removes problematic ions / microbiology for domestic use and applications requiring higher purity.**

Some technologies recapture electrolytes used in plating, galvanizing, “galvanealing” and other processes **for re-use, reducing cost.**

We can work with you to evaluate how these technologies can work for you!