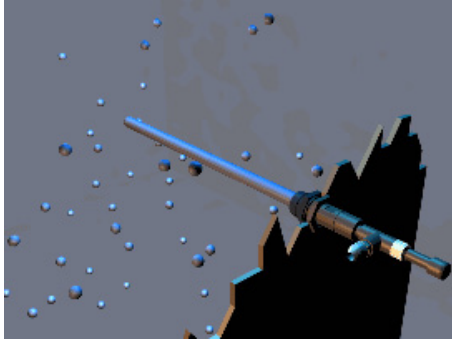


zeta technology



Zeta Rod systems patented capacitor-based technology electronically disperses bacteria and mineral colloids in aqueous systems, eliminating biofouling and scale formation without the use of additive chemicals.

Zeta Rod systems designed specifically for residential applications consist of a ceramic electrode energized by a power supply that converts 12 volts DC to 30,000 volts DC. When the Zeta Rod and chamber are plumbed into the incoming water piping, the rod and grounding surfaces provided by the pipes and chamber form the parameters for the capacitor. A 12 volt power adapter plug converts household AC power to 12 volts DC and plugs into the power supply.

zeta potential
(zā'tə pə'ten'shəl) *n.*
The measurement of electrokinetic forces that cause suspended colloidal particles to repel each other as a function of increased surface charge density.

Bacteria and scale forming colloids in the water are included as components of the capacitor and receive a strong boost to their natural surface charge. Having become elevated in charge, the particles repel one another and remain in stable suspension, rather than uniting to form scale or colonizing to form biofilm or other system fouling. Bacteria are unable to attach, absorb nutrition or replicate into colonies. Existing biofilm hydrates excessively, loses bonding strength and disperses. Biofilm, bio-corrosion and scale formation are arrested.