



## IGS ASIA PACIFIC

WATER SOLUTIONS

### IGS Water Conditioners for Irrigation

#### Problems to Overcome

A common problem in irrigation is the build-up of scale caused by the following:

**Water Hardness** Water containing high levels of dissolved calcium or magnesium salts, or both, is described as “hard.” Other minerals including iron, manganese and zinc also contribute to hardness.

Hard water affects soil, pipes, and equipment. Although water hardness does not affect plants directly, minerals precipitated on the soil surface can form a crust, and thus increase runoff and reduce soil penetration. This can have an indirect impact on plant growth. **Salinity** is the concentration of all soluble salts in water or soil and left untreated it will cause a reduction in crop yield. Plants are adversely affected by salinity in several ways. The most important of these is that it limits the ability of plants to take up water. If the soil water salt concentration is too high the plant will not be able to absorb water and will eventually wilt and die. **Effects on Pipes, Irrigation, Hydroponic and Farm Equipment** Hard water problems cause scale build-up on pipes and irrigation systems. Left untreated this build-up will reduce water flow and eventually block pipes, drippers, and associated equipment, costing you money.

#### Our Solution

We manufacture a range of catalytic water conditioners that reduce the electrical charge of the minerals in the water. These water conditioners are designed with various flow rates to suit the smallest hydroponic or drip irrigation system through the larger high flow centre pivots.

#### IGS Water Conditioners

- Mitigate scale build-up up in pipes, drip irrigation systems, centre pivots, and other irrigation and hydroponic equipment, extending their usable life and saving you maintenance and replacement costs.
- Keep minerals in solution, helping to increase soil penetration and reduce hardpan and runoff.
- Lower the water surface tension allowing fertilizers and hydroponic nutrients to mix more thoroughly with the softer water.
- Create an environment for the softer nutrient-rich water to be more readily available to the root ball, encouraging deeper root growth, more feeder roots, and a healthier plant.
- Allow you to irrigate with saline water.

We can also design and manufacture a skid mounted system that can give you a mix of the conditioners for hard water treatment, filtration to 0.45 micron using our OV AFM filters, a ZPM static cavitation mixer for the mixing and injection of chemical and nutrients with greatly improved mixing than other products, pumps, any ring mains you might want and UV.

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