

# HYDROSMART™

By SMART ENRGY.

## Industrial and Commercial Applications

**HYDROSMART** is a new and innovative technology that offers effective, affordable and chemical free solutions to the problems caused by the minerals and chemicals present in our water supplies.

**HYDROSMART** uses resonance frequencies to neutralize the bonding ability of the minerals and chemicals present in the flow. This prevents scale formation and significantly reduces the corrosive process. The resonance frequencies remain active in water for up to 5 days and progressively break down any existing deposits, effectively de-scaling all equipment connected to the treated flow.

Without their bonding ability, large crystals become unstable and revert to tiny sub 4 micron particles. As there are no longer any large crystals present, the flow assumes all the properties of soft water. Exceptional washing and rinsing results are achieved and the need for most chemical water treatments is eliminated.

The sub 4 micron particle size is too small for algae or mould to form on and they are rapidly removed along with the scale and bio-films. This has produced a wide range of health and operating benefits which have particular significance for the Healthcare, Hospitality, Food Production and Catering Industries.

**HYDROSMART'S** ability to prevent scale formation, de-scale boilers & water systems, remove algae & bio-films, inhibit corrosion and soften water without using chemicals, offers an unprecedented range of commercial and environmental benefits for all branches of industry and commerce wherever water is used.

*Chemical Free De-Scaling  
and Scale Prevention System.*

*Commercial flows of  
Softened Water*

*Removes Bio-film, Algae  
& Fungal Substrates*

*Reduces Chloride Attack*

*Prolongs Equipment Life*

*Substantial Savings in Energy,  
Maintenance, Repair, Downtime &  
Chemical Costs.*

*Minimal Running Costs*

*No Flow Restrictions*

*Environmentally Friendly*

*Maintenance Free!*



**Smart Science  
Serious Savings  
Sustainable Solutions**

**effective chemical free water solutions . . .**

**Industrial**

## Industrial and Commercial Applications

### CHEMICAL FREE SCALE PREVENTION & DE-SCALING

HYDROSMART'S resonance frequencies inhibit electron bonding and prevent crystals combining to form scale. The frequencies are transmitted via antennae wound around the outside of the treated water pipe and remain active in the flow for up to 5 days. Existing mineral deposits are progressively broken down and all connected equipment, becomes scale free within a 3 month period. Treatment is un-effected by temperature or flow rate making it the ideal treatment for boilers, autoclaves, steam ovens etc.



### COMMERCIAL FLOWS OF SOFT WATER

Without their bonding ability, large mineral crystals become unstable and collapse to sub 4 micron particles and the flow assumes the properties of soft water. Lathering is greatly improved and the tiny mineral particles easily pass through fabric weaves. Excellent washing and rinsing results are achieved and there is no longer a need for water or fabric softening chemicals, which cause significant problems for our rivers and waste water authorities.

### REMOVAL OF ALGAE & FUNGAL FORMATIONS

Most algae and fungal formations need particles greater than 8 microns to form on. As HYDROSMART'S treatment reduces all particles below 4 microns, there is no substrate for the organisms to cling too. Algae and mould progressively disappear, along with the mineral deposits.

This has substantial benefits for the Health and Hospitality Industries where a healthy water environment is essential for problem free operations.

### COOLING TOWERS AND FOOD PRODUCTION

#### FACILITIES

There is now a growing body of evidence that HYDROSMART'S resonance frequencies are having a significant impact on bacterial activity. Food production facilities are recording exceptionally low bacterial counts accompanied by a significant increase in product shelf life. The exact mechanisms involved are being investigated but there is now the potential for an effective, chemical free treatment of chillers, cooling towers and air conditioning plants. The elimination of scale, corrosion and chemical treatments from plant room machinery will bring significant savings in maintenance, repair, downtime, chemical and energy costs, whilst the removal of substrates and bio-films, on

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prolongs  
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... that don't cost the earth

