Why Electromagnetic Water Conditions?

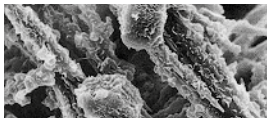
WHY IS THERE A NEED FOR ELECTROMAGNETIC WATER CONDITIONERS?

It is widely known that calcareous scale build-up in domestic and industrial plant can cause damage to pipework, cause leakage and lead to inefficiency of boilers, heat exchangers and cooling equipment used in refrigeration. Electromagnetic water conditioners help reduce scale build-up.

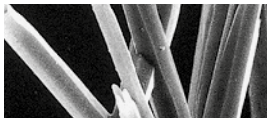
WHAT CAUSES SCALE TO BUILD-UP?

Water from the mains supply and natural sources (such as boreholes) contains minerals that are vitally important contributors to good health and wellbeing. However, one of these elements is calcium bicarbonate, which, along with magnesium and other dissolved salts, contributes to the level of hardness of water.

As water temperature is increased, the inherent calcium bicarbonate releases carbon dioxide, leaving calcium carbonate (the cause of limescale build-up).



Calcite Crystal – high level of aggregation and adhesion



Aragonite Crystal – low level of aggregation and adhesion

WHAT IS AN ELECTROMAGNETIC WATER CONDITIONER AND HOW DOES IT WORK?

Electromagnetic water conditioners distribute electromagnetic forces and ensure that calcium carbonate in the water only forms as aragonite crystals, rather than calcite crystals; aragonite has a low level of adhesion, resulting in less scale build-up, reduced energy consumption and the extended life of industrial plant.

HOW IS AN ELECTROMAGNETIC WATER CONDITIONER DIFFERENT FROM A WATER SOFTENER?

Treating hard water with an electromagnetic water conditioner as opposed to a water softener doesn't involve introducing any harmful chemicals or additives. It ensures that the quality of the water is maintained as none of the essential minerals present in potable drinking water are removed through the treatment. This process means that there is no requirement for a separate 'softened' water supply and no on cost due to chemical replenishment.

VR BOOSTER SET PRE-PACKAGED WITH A ELECTROMAGNETIC WATER CONDITIONER TO REDUCE INSTALLATION TIME AND COMPLEXITY