

Watermatic KalGUARD+ Facts



It has been known for many years that the addition of zinc to hard water, even in minute quantities, will effectively inhibit limescale formation. And the higher level of zinc ions in the water, the greater the effect on scale formation - to the extent of removing existing scale deposits.

KAL-GUARD+ exploits this phenomenon by using a zinc anode and copper cathode to create electrolytic action that releases minute quantities of zinc into the water - at levels well within the water regulations. The unit's electronic controls are set to the hardness of the water, so the levels of zinc released are fine tuned to provide optimum performance.

These zinc ions in the water cause the mineral salts in the water to clump together and remain in suspension, rather than settling onto the surfaces of the system. The zinc also influences the way the calcium carbonate in the water crystallises, encouraging the formation of soft aragonite crystals rather than the harder calcite crystals associated with stubborn limescale. The result is that as calcium crystals are flushed through the system with the water, any that are left on outside surfaces or taps can be wiped off with a damp cloth.

KAL-GUARD+ provides the following benefits:

- Prevents limescale formation
- Breaks down existing limescale, clearing systems and improving performance
- Provides ongoing protection through passivation
- Reduces energy consumption
- Reduces CO2 emissions
- Eliminates the need for water softeners, thus reducing ongoing costs
- No COSHH implications
- Low maintenance (typically a visual check annually)
- Simple installation with no need for bypass pipework
- Assists in meeting energy targets
- Assists compliance with the Building Regulations

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