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Vater MATIC

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WaterMATIC KalGUARD Limescale Water Treatment

Model: Kalguard 76 - is a new system combining an enhanced electrolytic controller

driving a dedicated and specialised zinc alloy electrode unit. This will allow the management of extreme and severe hard water situations. The system is a totally environmentally friendly non-polluting means of permanent water treatment.

The KalGUARD electrode unit is an enhanced zinc based sacrificial cathodic cell designed to work in conjunction with a sophisticated controller to maintain the desired water treatment parameters using 'feed-back' electronics.

The specialised electrode unit is designed to be replaced after a 5 to 8 year service period on continuous dosing applications, or in 8 to 10 years with added flow sensing

product activation to maximise operating time in intermittent demand situations. (Separate

Data sheet will cover this item).

It will protect complete water pipe systems by eliminating the formation and effecting the removal of existing, limescale encrustation

throughout thereby ensuring continued maximum thermal efficiency and long

regulations.

major equipment life. This will also assist towards compliance with carbon emission

It does not use any chemicals or salt, nor any unusual electrical or electronic effects.

The product specification for system/installation design purposes is :-

Manufacturer : Sentinel Performance Solutions Group, U.K.

: **KALG76P** - KalGUARD⁺ 76mm electrolytic cell with controller. **Product Code**

To suit Pipe Size : 76mm O/D (3" BSP)

Controller : Input either 230/240v 50 Hz Single Phase (EC)

> or 110/120v 60 Hz. Single Phase (USA), fitted with a 2 metre cable with a moulded plug.

Design Output : 0 - 12 v, 1 - 200 mA d.c, conductivity independent, with constant

current amplifier. Output provided through an installed 3 metre twin

core flexible cable terminated to a co-axial connection.

Provides visual data to set and monitor correct level of treatment, **Features**

> with LEDs showing power on, fault state with alarm, anode life remaining, and secondary circuit output confirmation. Controls designed to be 'tamper-resitant' inside a latched locked enclosure

Dimensions : 193 mm (W) x 103 mm (D) x 180 mm (H)

Controller Weight : 1.32 kg incl. cables



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Test Regulations : EMC – EN 50081-1 50081-2

Construction: The control box is a standard IP65 ABS plastic enclosure with a

transparent front cover to allow visual access to the meter display. The controls are inside the front cover and allow the unit to be used for a wide range of water pipe installations. The box is suitable for wall mounting, and comes with a 2 metre power cable and a 3 metre

secondary control cable for connection to the electrode unit.

Electrode Unit

Pipe Size : to suit 3" BSPT steel pipe, or 76 mm copper pipe.

Connection : 3" 8 bolt DIN/ANSI flange

Design Flow : 0 - 8.711/s

(523.0 l/min or 31.4 M^3 /hr) with $\Delta p = 0.20$ bar

Length : 650mm

Diameter : 134 mm (Main

body)

Weight : 30.00 kg

Test Regulations : ISO 14001:2008; ISO 9001:2008 & BS EN ISO 9002 (1994);

(UK) WRAS Certification 0107038;

(Germany) RWTüV Prüfprogramm Cert. Nr. 2.4-498/01

Materials Used : Outer Body - Copper BS 2871 Pt.1 Table X

Anode Support - Grilamid L20G Natural

Anode Material - Pure Zinc with Magnesium BS 6561

Construction: The anode assembly is pressed into the copper body and locked

into position. The body diameter is reduced at the ends and brazed

to the end connectors. The unit cannot be opened.

NB: With on-going product improvement, we reserve the right to change or modify the specification without prior notice being given. Where pertinent,

users will be advised and revised specification sheets issued.

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Technical Specification subject to change (20/5/09 – MJP).