

**Limescale,  
this is your  
20-minute  
warning**

**Água  
King**  
Electronic  
Water Softener

**Installation,  
operation &  
maintenance  
instructions**

**AK-G1**

# AK-G1

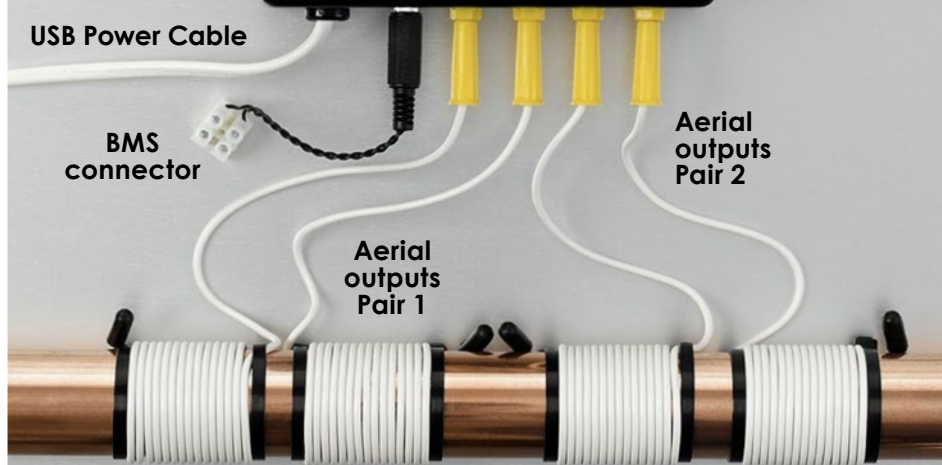


USB Power Cable

BMS  
connector

Aerial  
outputs  
Pair 1

Aerial  
outputs  
Pair 2



## Description

The ÁguaKing AK-G1 unit has four aerials arranged in two pairs. The 2 metre aerials will allow at least twelve wraps around a 50mm diameter pipe.

The signal generated by the aerials travels through the water regardless of whether the water is flowing or not. The signal travels both upstream and downstream of the unit.

## Location

When selecting a location for the device the following points have to be considered:

- **The aerials occupy between 25cm and 30cm of piping.**
- **Do not install the unit before a pump or booster set.**
- **Any earth bonds must be upstream of the unit.**
- **Avoid installing on flexible pipes.**

# Installation

**Installing the control box:** The control box should be installed within 450mm of the pipe being treated. It can be hung from pipes, support brackets or installed on a wall. The unit is supplied with four plates that can be attached to the backplate.

**Aerial wrapping:** The four aerials are arranged as two pairs. The two aerials on the left of the box make up one pair and the two aerials on the right make up the other pair. Each aerial of each pair must be wrapped in opposite directions from a central point. When facing the pipe, one aerial should start by passing behind the pipe and the other should pass in front of the pipe. Secure each end of the aerial with the zip ties provided.

Repeat the process with the other pair of aerials.

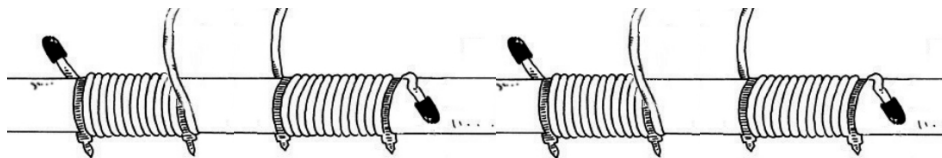
Try to leave a gap of about an inch between each aerial. You can wrap the aerials either side of a 'T' junction or elbow, on a horizontal or a vertical pipe.

Do not allow gaps between wraps or between the aerials and the pipe. Wraps must be tight and close together like a closed slinky.

Make as many wraps per aerial (a minimum of 12) as the wire permits. You do not need to have the same number of wraps on all aerials.

If there is going to be surplus aerial wire, ensure it is at the end with the cap rather than the end with the plug. Surplus aerial wire can be cut off.

## DO NOT GROUND ANY AERIAL TO THE PIPE



When you have finished, the pipe should look like this.

**Power supply:** Power is provided by a 2.1 metre cable with a USB plug on the end. A USB power supply for a 120V outlet is provided. Any USB outlet can be used.

## Commissioning

To commission the unit plug it in and switch it on. The lights will flash in sequence.

## Maintenance & trouble shooting

Once installed, the AK-G1 requires no maintenance. Under normal circumstances the extra guard chip built into the unit will reset the system automatically if the programme is upset by a power spike.

If the unit stops working, check first that the power supply to the transformer is functioning by plugging another appliance or lamp into the outlet and seeing if it works. If the transformer is cold that means it has failed. Contact us for a replacement.

If the unit still fails to work, or you are not happy with the results, before you do anything else contact us on +44 608 811 070 or email us at [info@lifescience.co.uk](mailto:info@lifescience.co.uk)

Please do not remove the unit before contacting us. Very often the problem is very simple to resolve over the phone or by email.

## Building Management System (BMS)

The BMS socket connections are provided to connect to a Building Management System to report power supply failure. The isolated BMS contact is rated for signal levels only. The maximum rating is 24V and 100mA. The contact remains closed during normal operation (fail safe) and opens upon fault.



### **100-day money back guarantee**

If you are dissatisfied with your ÁguaKing product, you may return it at any time during the first 100 days after purchase and the purchase price will be reimbursed in full. Simply return it to wherever it was purchased, together with your full name, address and proof of purchase, showing the price paid.

### **5-year manufacturer's warranty**

Lifescience Products Ltd, manufacturer of ÁguaKing, guarantees to replace your ÁguaKing treatment unit in the event of any manufacturing defect during the first five years after purchase. The unit should be returned properly boxed and wrapped, together with proof of purchase, showing the price paid. Lifescience Products Ltd cannot accept responsibility for consequential loss as a result of the performance or otherwise of the ÁguaKing unit.

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### **Want to know more?**

Pleased with what your new ÁguaKing AK-G1 is doing for your garden? To find out about our complete range of electronic water softeners – for home, garden and pool – or to get installation or maintenance advice, go to [AguaKing.pt](http://AguaKing.pt)

Lifescience Products Ltd are experts in chemical-free water treatment technologies, with a global reputation for providing the very best in environmentally friendly, hard water treatment solutions.

LifeScience Products Ltd.  
Unit 19, Cheltenham Trade Park,  
Gloucestershire, UK, GL51 8LZ  
+44 608 811 070  
[info@lifescience.co.uk](mailto:info@lifescience.co.uk)