

INSTALLATION, COMMISSIONING & MAINTENANCE INSTRUCTIONS

FOR THE

AQUA-REX WK3

DESCRIPTION

The Aqua-Rex WK3 unit has four aerials arranged in two pairs. The 16 foot aerials will allow at least fifteen wraps around a 3" 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 12 inches and 15 inches 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.

See the Aqua-Rex Specifiers Guide or check the quote supplied by Aqua-Rex for specific locations on selected applications.

Download the Specifier Guide from www.aqua-rex.com Technical Library.



INSTALLING THE CONTROL BOX

The control box should be installed within 18 inches 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 15) as the wire permits.

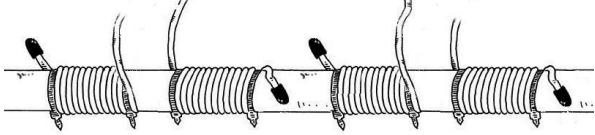
You do not need to have the same number of wraps on all aerials.

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 7 foot power cable with a USB plug on the end. A USB power supply for a 120 V outlet is provided. Any USB outlet can be used.

COMMISSIONING

To commission the unit plug it in.

The Liquid Crystal Display (LCD) will show:-

“ INITIALISING “
" PLEASE WAIT..."

This displays until all outputs have been checked. Then, if no fault has been found:-

"ALL OUTPUTS O.K."
"TESTING OUTPUT X"

X will change after each test.

If there has been any failure the top line reports:-

"FAULT - OUTPUT X"

where X varies as above whilst the lower line reports the continuing test number as before. Should there be multiple faults the unit will report the first one it finds then, when that is cleared, any other.

MAINTENANCE

Once installed, the WK3 requires no maintenance. Under normal circumstances the extra guard chip built into the unit will reset the system automatically if the program is upset by a power spike.

While the guard chip ensures resetting of the output signal in all normal circumstances, it is possible for the LCD to jam in which case rebooting the system at the switch should reset it.

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.

AQUA-REX LLC cannot accept responsibility for consequential loss as a result of the performance or otherwise of the Aqua-Rex unit.

Aqua-Rex is manufactured in England by Lifescience Products Ltd and distributed in the

100 Day Money Back Guarantee

If, for any reason whatsoever, you are dissatisfied with your Aqua-Rex 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 and address and proof of purchase, showing the price paid.

20 Year Manufacturer's Warranty

Lifescience Products Ltd guarantees to repair or to replace the Aqua-Rex treatment unit in the event that it suffers from any manufacturing defect during the first twenty years after purchase. The unit should be returned to us properly boxed and wrapped, together with the proof of purchase, showing the price paid.



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