

INSTALLATION, COMMISSIONING & MAINTENANCE INSTRUCTIONS

AQUA-REX WK4

DESCRIPTION

The Aqua-Rex WK4 unit has four aerials arranged in two pairs. The 23 foot aerials will allow at least fifteen turns around a 4" diameter pipe which can be made of any material approved for use in plumbing.

The signal generated by the aerials travels through the water irrespective of whether the water is flowing or not.

The signal travels both upstream and downstream of the unit and will treat static water in a storage tank if fitted to the down service.

LOCATION

When selecting the location where the device is to be installed the following points have to be considered:

- The aerials occupy 16" of pipe.
- Do not install the unit before a cold water cistern, pump or booster set.
- Ensure that any earth bonds are upstream of the unit.
- Avoid fixing to flexible pipes.

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

Downloads are available at www.aqua-rex.com

FIXING THE CONTROL BOX

The control box should be installed within 18" of the pipe being treated. It can be hung from pipes, support brackets or fixed to a wall. The unit is supplied with two fixing plates that can be attached to the backplate.

AERIAL WINDING

The four aerials are arranged as two pairs. The two aerials on the left of the box make up one pair, the two aerials on the right make up the other pair. Each aerial of each pair must be wound 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 a cable tie. Leave a gap of at least 1" between each aerial. Repeat the process with the other pair of aerials.

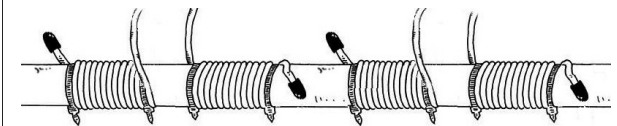
Do not allow gaps between windings or between the aerials and the pipe. Windings must be tight and close together.

Make as many windings per aerial (a minimum of 15) as the wire permits.

You do not need to have the same number of windings 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. You can wind the aerials either side of a "T" junction or elbow, on a horizontal or a vertical pipe.

DO NOT GROUND ANY AERIAL
When you have finished it should look like this :-



POWER SUPPLY

The unit is supplied with an internal transformer wired to 5 feet of cable. The input power supply is normally 110 Volts indicated by the rating plate. The plug can be removed and the unit can be hard wired to a 3 amp fused outlet to avoid the risk of it being unplugged in error.

COMMISSIONING

To commission the unit, plug it in and switch it on.

At switch on 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

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.

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Once installed, the WK4 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 on off switch should reset it.

De-scaling the system

You may find that chunks of scale break away from within the pipes and these, in rare circumstances, can block pipes, shower sprays, aerators, heaters and heat exchangers. Be aware that this may happen and can reduce flow until the blockage is cleared and can also cause the heater to fail.

WARNING

Filters and strainers on appliances and blending valves should be checked on a regular basis for the first few months after installation until the old scale no longer appears. You should consider fitting a strainer to the hot water return or on the feed from a hot tank to a boiler to reduce the risk of boiler failure.

BMS

The BMS socket connections are provided to connect to a Building Management System (BMS) to report power supply failure. The isolated BMS contact is rated for signal levels only. The maximum rating is 24V and 100mA.

20 Year Manufacturer's Warranty

Aqua-Rex LLC 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. This warranty excludes external transformers.

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