



FIREWALL PUT TO THE TEST IN AUSTRALIA AGAINST LEGIONELLA

In February 2019, over a 31-day period, a leading independent Australian laboratory (ALS Environmental) tested 4 x Firewall X machines to measure their effectiveness at eliminating Legionella from drinking water. This type of testing is critical to ensure customer peace of mind, especially in countries such as Australia where Legionella is commonly found in the water supply.

The Waterlogic Firewall X systems use bespoke UVC Bulbs and Electronic Ballasts to completely inactivate bacteria, viruses and pathogens including E. Coli, Salmonella and Hepatitis all the way through to the dispensing nozzle.

This internationally patented technology has already been proven up to 99.9999% effective in over 5,000 independent tests. It is the only UVC system in the world today that is certified to NSF protocols 55a and P231, classifying it as a "Microbiological Purification Device".

LEGIONELLA PRESENCE IN WATER SUPPLY

Legionnaires disease (or Legionella) is an on-going global concern, due to the presence of the bacteria in water. This ranges from lakes, rivers and hot springs, to air-conditioning units and hot and cold water systems in public and private buildings.

The identified incidence of Legionnaires' disease varies widely according to the level of surveillance and reporting, but in Europe, Australia and the USA there are up to 15 cases detected per million population per year*.

If contacted, Legionella is characterised by severe pneumonia and unless diagnosed and treated rapidly, the disease can be serious or even fatal, especially in vulnerable people.

100% EFFECTIVE IN
ELIMINATING LEGIONELLA
Firewall[®]

“ THE RESULTS OF TESTING
BY ALS CONCLUDED
THAT THE UV FIREWALL
TECHNOLOGY IS
VERIFIED TO ELIMINATE
LEGIONELLA AND AEROBIC
BACTERIAL LOAD. ”

AUSTRALIAN LABORATORY SERVICES (ALS)





TESTING PROVED CONCLUSIVE

ALS carried out tests on a daily and weekly basis, taking samples of both cold and ambient water, and spiking the incoming water with high levels of Legionella organisms. Each dispenser had its carbon block filter removed prior to testing to ensure they played no part in bacteria reduction and was then linked to a 10-litre dosing tank and pump.

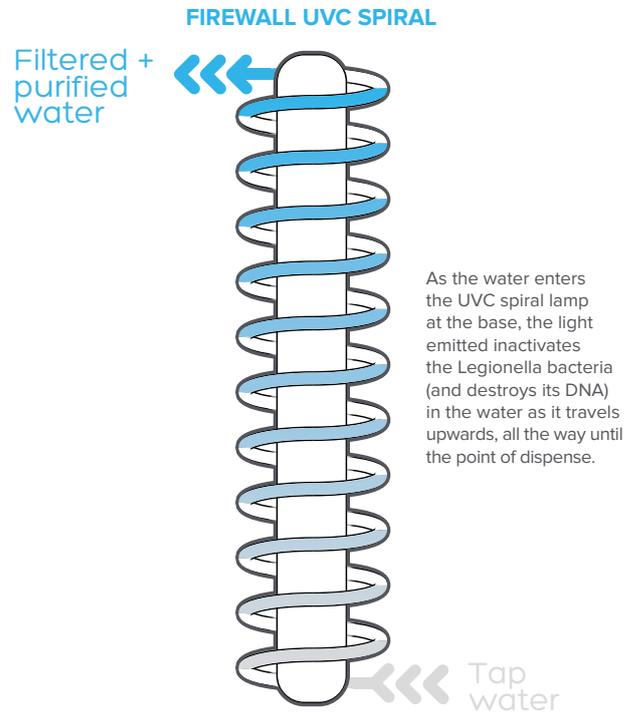
Two samples of water from each dispenser were tested daily, one in the morning and one in the evening, in their purest form (without flushing). The average count of Legionella in the untreated dosing tank was 59 CFU (Colony Forming Unit) per 100ml of water. After testing water that had passed through the WL2's Firewall system, this was reduced to zero CFU per 100ml.

In most cases, pre-Firewall counts of bacteria were so high, over 10K per ml, that the laboratory could not physically count the colonies. In all these cases, the post-Firewall results were consistently zero.

The weekly testing consisted of samples being taken each Monday on the stagnant water left in the dispensers over the weekend (48 hours), without flushing. These water samples were collected prior to the daily dosing/spiking with Legionella. Again, the average count was zero CFU per 100ml post-Firewall on all four dispensers.

After a month of testing hundreds of water samples, the results verified that the Firewall system in the WL2 FW dispensers, regardless of conditions, conclusively showed zero counts of any microbiological contamination, including Legionella.

ALS Environmental are an independent global leader in testing, certification, inspection and verification for life sciences, commodities and industrial sectors. They operate laboratories specialising in environmental monitoring, food and pharmaceutical, electronics and consumer products markets.



The challenge test verification, sampling and analysis was conducted by ALS Water from 2nd Jan-30th Jan 2019 using NATA accredited methods according to their scope of accreditation (No. 992). [*https://www.who.int/news-room/fact-sheets/detail/legionellosis](https://www.who.int/news-room/fact-sheets/detail/legionellosis)

Tested and Certified



*certificate may vary depending on different models or products

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