

**Issue 16** The information hub is designed to provide - mainly technical - information relating to Water Coolers and Boilers, to assist you with your work

## The Klaran UVC LED Shield Protects Direct Chill Water Coolers From Bacteria, Viruses & Other Pathogens

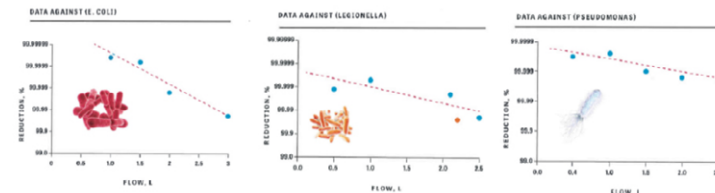
New UVC LED Technology now finally available to the Water Cooler Industry. The Klaran Shield combines UVC wavelength emission with LED Technology to eliminate 99.99% of Bacteria such as Cryptosporidium, Giardia, E Coli, Pseudomonas, Legionella and more.

### Microbial Performance of the KLARAN UVC LED Shield

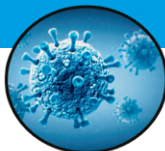
Organism	Flow Rate (Ltr/min)	Reduction (%)
E-coli	1.0	99.99994
Legionella	1.0	99.9996
Pseudomonas aeruginosa (SS40)	1.0	99.99937
Bacteriophage Q $\beta$ (Q Beta)	1.3	95.73420



Watch the Video which explains in graphic detail how the Klaran Shield works, and how easily it fits into a Direct Chill Water Cooler visit: <http://www.aafirst.co.uk/klaran-uvc-led-technology>



Latest research from Crystal IS and Boston University demonstrates that the Klaran UVC LED's effective wavelength for inactivating the Virus that causes Covid 19



As water from the Direct Chill Tank passes through the Klaran Shield on its way to the tap, it is exposed to UVC LED radiation which destroys water-borne Bacteria and Viruses.

### The advantages of UVC LED over traditional UVC Lamps

UV radiation using UV Lamps to control Bacteria has been around for a long time – and we had to accept its limitations. Klaran's success in combining UVC with LED Technology changes all that. Here Are Klaran's unmatched vital performances:

1. Consistent UVC LED emission with no risk of deterioration over its life time
2. Contains no Mercury, which has been recognised as environmentally extremely harmful, and is being phased out
3. Requires virtually no Maintenance
4. The Klaran Shield is only activated when water is dispensed. It does not use electricity in between, and does not heat the water by a constantly lit UV Lamp
5. The Klaran Shield has been tested (so far) to have an effective live span of 5+ years or 36,000+ ltrs @ 2ltr/min flow through
6. Klaran are market leaders with over 20 years of experience in UVC LED Technology



The Klaran UVC LED Shield is designed to destroy bacteria and viruses to protect your health.