



The DCW TZero

– controlling Legionella in a school and leisure centre without the use of toxic chemicals.

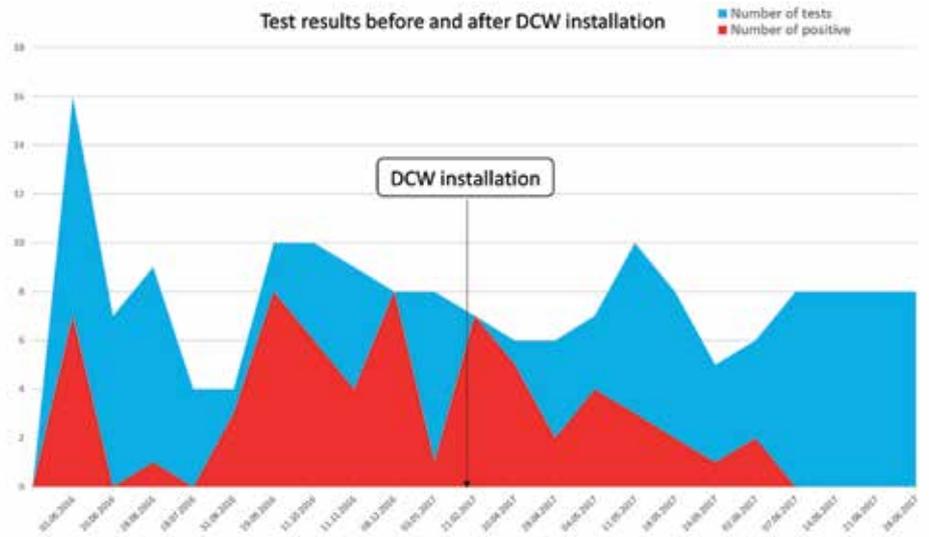
When a school and leisure centre in Nottinghamshire had a serious problem with Legionella that just refused to go away, Danish Clean Water (DCW) was brought in to deliver a solution that achieved a drop from action level to zero positive Legionella test results within only six weeks. This impressive outcome ensured students and people attending the leisure centre could use the building safely and finally gave the facility management team long term and ongoing confidence in their water system.

Despite compliance with the measures outlined in the Health and Safety Executive's guidelines, for many months the school had been unable to successfully reduce the level of Legionella in its water system with the use of traditional methods, and positive results kept reoccurring. Daily flushing at outlets and continuous water temperature reviews were introduced, together with efforts to increase water flow and improve pipework. The school also undertook a thermal pasteurisation of the entire water system, but any improvement in Legionella levels was only temporary, with positive counts even increasing at some points.

TOP 6

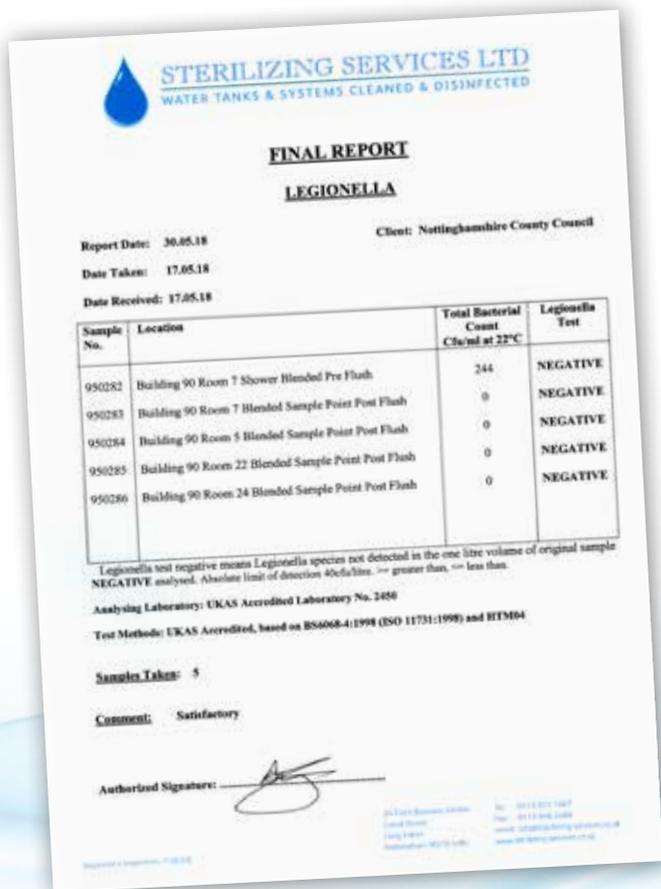
- Safe alternative to ClO_2
- Greater application range
- DWI (HSG274) & BPR approved
- Fully automated with web-based operation
- Costs just 1.6 pence/ m^3 of treated water
- 30–70% saving in running costs compared to ClO_2

Faced with these serious and persistent problems, the facility team approached DCW to deliver a solution that would control Legionella and other dangerous waterborne pathogens in the system permanently. Built in the 1970s under the CLASP scheme, the distinctive box-like characteristics of the prefabricated building, coupled with asbestos ceilings, made it difficult to access the Polyorc plastic pipework to instigate measures such as eradicating deadlegs, and major remedial work to the building's water system was initiated by the school. Upon completion of the work, DCW installed a TZero unit, and within six weeks a series of weekly tests gave



the same results – the previously dangerous levels of Legionella were reduced to below detection limits. With the help of DCW, the school and leisure centre was finally and consistently Legionella-free.

a substance that occurs naturally in the human body and is odourless and non-corrosive, returning to simple salt and water on exposure to air. NEUTHOX® has been approved by the Drinking Water Inspectorate and its use is cited in HSG274 Part 2. The DCW unit is quick and easy to install and uses the latest web-based technology for hassle-free configuration and monitoring. It requires only minimal servicing and no regular maintenance beyond refilling the salt tablets.



The DCW unit uses just water, salt and electricity to produce NEUTHOX®, a powerful, proven disinfectant that destroys biofilm, Legionella bacteria and Pseudomonas without the use of toxic chemicals. The active ingredient in NEUTHOX® is hypochlorous acid,

