

Hydro-X

Case study outlining the benefits of
using PTSA traced inhibitors in new
cooling systems

Contact: www.Hydro-X.co.uk
Headquarters: 01909 565133

Hydro-X's new range of PTSA Inhibitors:

- Now standard as part of our liquid range of cooling system inhibitors
- Integrated into our new range of solid Hydro-Solv chemicals



Field Example:

Quite often when new cooling systems are brought on live there is a disconnect between original procurement, handover/practical completion and ongoing maintenance in line with manufacturers warranties.

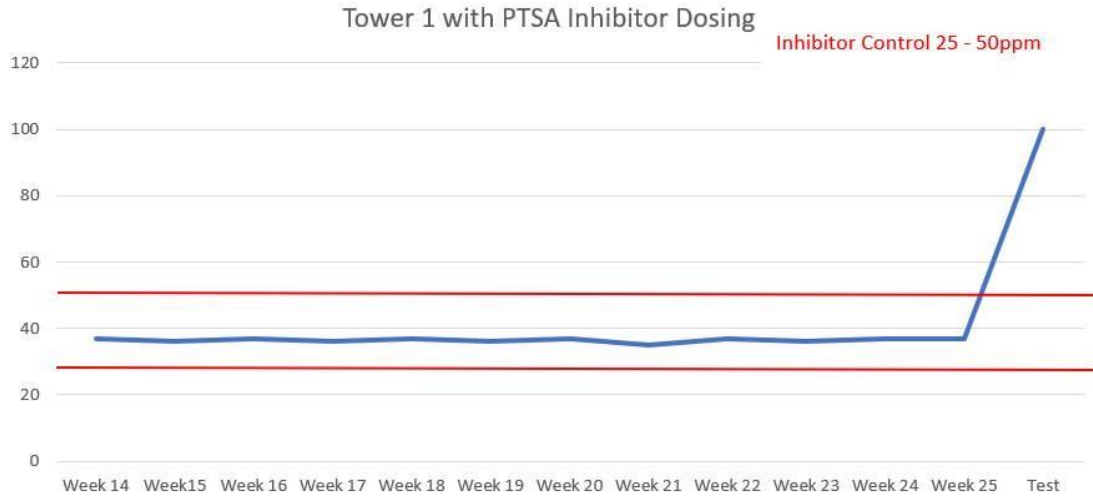
A key client engaged with Hydro-X early in the process which resulted in shorter, and longer, term benefits. These included:

- Review of original manufacturer specification (based on non-UK with little to no knowledge of HSG274 legislation)
- Challenge of water specification (this was a copy of a previous project which was not fit for local water chemistry)
- Based on a 'one-time' throughput, so high water usage in an area where water is becoming a more expensive commodity
- No longer term maintenance programme in place to protect the systems/be at its most efficient for day one.

Hydro-X undertook a detailed cost benefit analysis which determined the need to specify fit for purpose pre-treatment and dosing equipment at build stage. This would allow visibility of key performance indicators which included corrosion, deposition and bacteria monitoring from the very start of the project. Using the 'Hydro-Solv' synergic blend of corrosion and scale inhibitors with PTSA technology, the customer was able to have confidence that the right product was being dosed at the right levels, all of the time.

Coupled with Hydro-X's online dashboard, 'Hydro-Net', both parties were able to have the confidence to move quickly through PC. From early in the maintenance contract there was

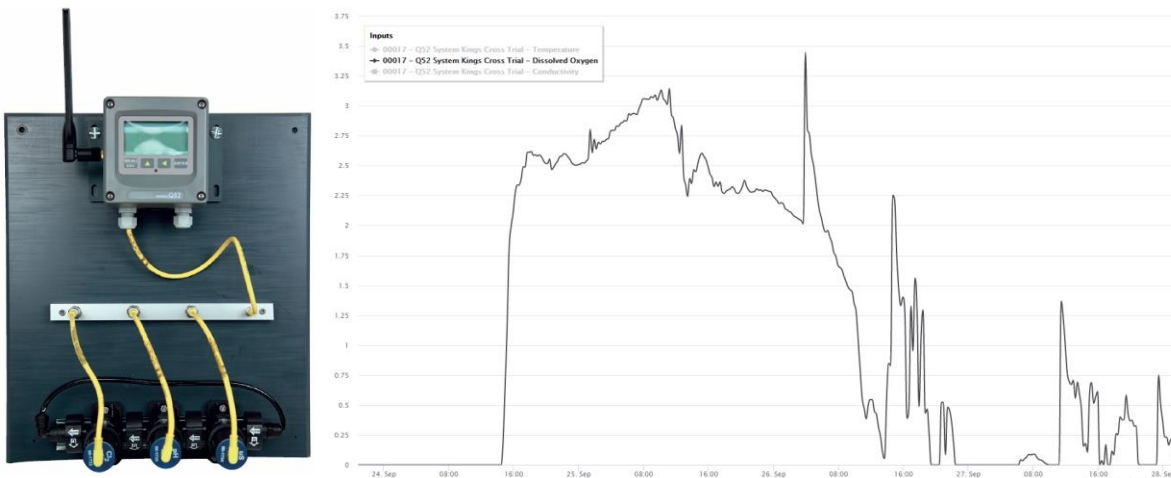
commitment to drive for higher cycles of concentration: a calculated risk that brought highly tangible early reward. This included optimised water and salt usage that made best use of available space with highly predictable water consumption to fix budgets and minimise unplanned spend.



Although Hydro-X manufactures its own products in the UK, the reduction in carbon footprint via less transportation vehicles travelling to site was still not insignificant. In addition, it has all but eliminated manual handling and disposal of empty containers.

Hydro-X has over 2500 days of continued operation without a RIIDOR. Safe, compliant working is an integral part of Hydro-X's business culture. This case study is a key part of the customer sustainability targets both on site and globally within their organisation.

At a recent client legionella audit, the 'Hydro-Net' system was utilised to show trending and reporting that enabled the auditor to have all the answers they needed around legionella risk management.



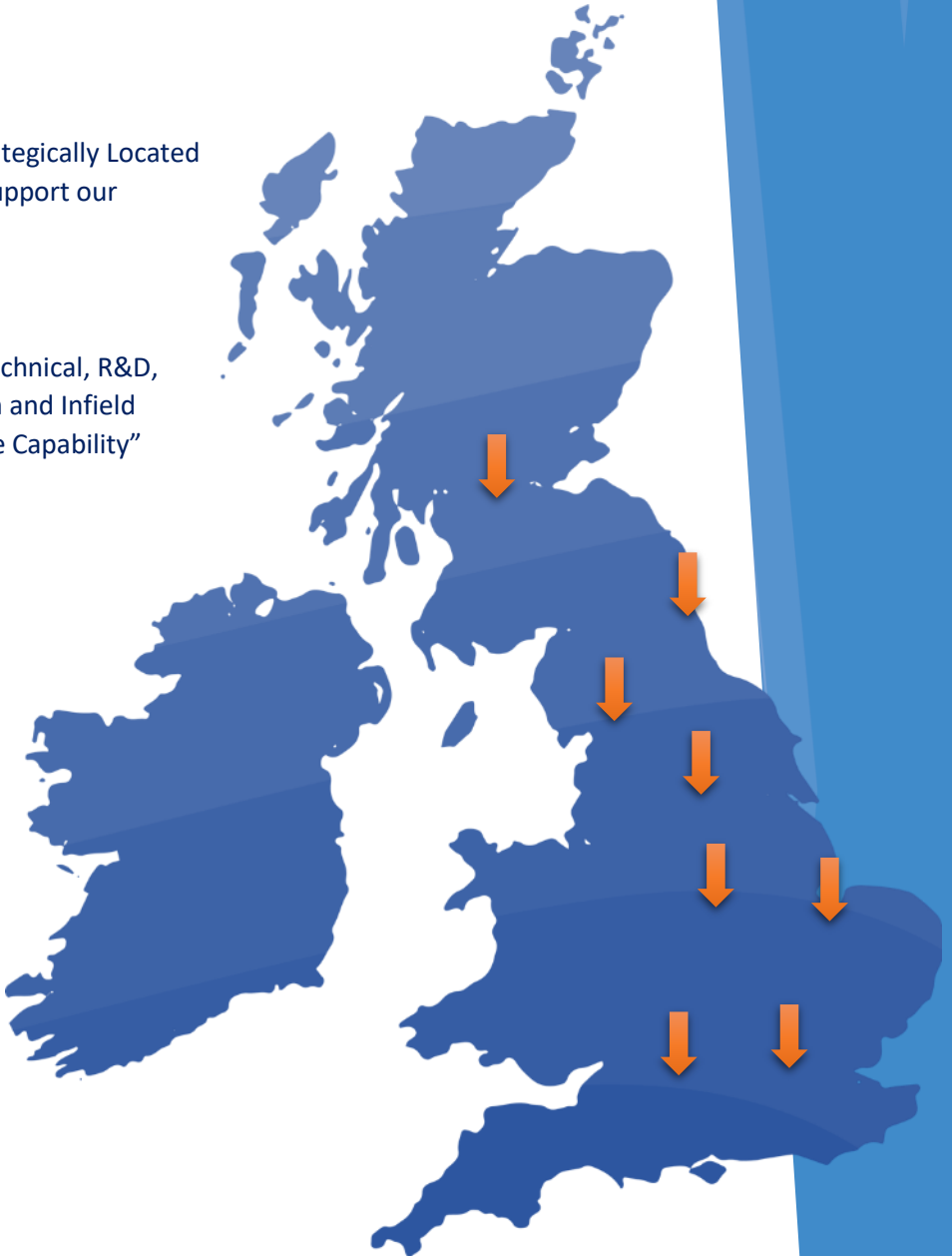
About Hydro-X Group



8 Regional Location Strategically Located throughout the UK to support our Business Partners



Over 120 Staff – Sales Technical, R&D, Products, Administration and Infield Engineers with “In House Capability”



Committed to Protect your Organisation.

Through innovative technologies and continual investment with reliable product and services that –

- Provide peace of mind concerning your compliance
- Enhance your plant longevity
- Reduce your total cost of operation
- Providing compelling Return on Investment
- Helping us both differentiate from competition



Water Treatment

Cooling Systems

Steam Boilers

Pre-Treatment

H & C Systems

Effluent Treatment

Pre-Commission Cleaning

Filtration and Chemical



Water Hygiene

ACoP L8 Compliance

Water quality

Sampling to UKAS

System Clean & Chlorination

Chlorine Dioxide

Log Books

Same Day Reporting



Risk Assessments

Legal Compliance

Legionella RA

C&G Training

Water Surveys

Reviews

Audits

Closed system Assessments



Engineering

Water Treatment Plant and Equipment

Chemical Cleaning

Tank Installation

Process and Optimisation

Water Reclaim

Pre-Treatment



Air Hygiene

Duct work Cleaning

Kitchen Extract

Fire Dampers

Indoor Air quality

Post Clean Verification

Deep Cleaning