

CASE STUDY



LOCATION: Honolulu, HI
APPLICATION: Bacteria Reduction, Scale Prevention
SITE DETAILS: Honolulu Star-Advertiser – Cooling Loop for Printing Press



PROJECT BACKGROUND

"For years, our main press' cooling loop had been plagued with chronic biological and mineral fouling, and had required a considerable amount of time and resources to keep it maintained. Prior to installing the Flow-Tech water treatment system, and while our cooling system was managed under a chemical contract, we were using 9 (nine) 200 micron 36" long bag filters per week and still fought the ongoing problem of bacteria and slime. In addition, we would need to drain and flush the system every 3 weeks."

900%
FILTER SAVINGS

\$500+
MONTHLY SAVINGS

6 months
ROI

RESULTS

"After installing the Flow-Tech system, we are now down to using only 2 (two) 50 micron 18" bag filters per week without any signs of bacteria. We have also been able to eliminate the system flushes. This has proven to be a savings of 900% in filters alone. We also saved in chemical treatment, and realized consumable product savings of over \$500 per month, which results in an ROI of less than 6 months."



Star-Advertiser realized a 900% savings in filters alone with Flow-Tech



One (1) Flow-Tech unit was utilized for both bacteria and scale reduction

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RESULTS (cont.)

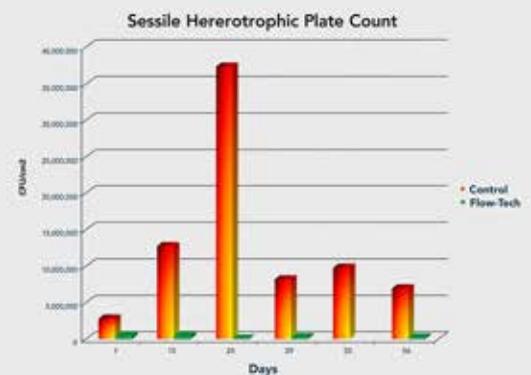
“This technology performs great within this environment which consists of an immense amount of bacteria, press ink, and calcium carbonate. The reduction of the filter micron allowed us to improve our plate life by up to 30% and produced a better quality product with the cleaner water.”

ASHRAE Protocol: Only Chemical-Free System to Pass

In 2009, ASHRAE commissioned a study through the University of Pittsburgh. A protocol was established to evaluate chemical-free water treatment systems and their effectiveness in controlling sessile bacteria (biofilm) in cool water systems.

The initial test evaluated the industry-leading brand name systems using magnetic, electrostatic, ultrasound, and cavitation. None of those devices showed the ability to control microbial growth rates compared to the control.

In 2012, an evaluation was commissioned to test Flow-Tech using the same protocol at the University of Pittsburgh. A 98% reduction of sessile bacteria (biofilm) was achieved against the control. *Flow-Tech is the only chemical-free system to have passed this test to date.*



IMPRESSION

“The Flow-Tech water treatment system has outperformed all other methods that we used in the past and exceeds far and beyond our expectations. We can only recommend this product to anyone that is in need of controlling bacteria and calcium carbonate.”

-- Michael Ohlmann | Pressroom Manager | Honolulu Star-Advertiser