



COMMERCIAL PROPERTY

Solving a Software Maker's Water Treatment Problem Using Less Chemicals in the *Right Way*

Problem

A West Coast software company had a problem with its HVAC energy efficiency. To deal with significant bio-growth, the plant managers had to open chillers and punch tubes twice a year to clean them out – a maintenance chore that was proving very costly. In addition, energy consumption was running very high, as the chiller approach temperature range hovered around 10 degrees. To add insult to injury, the incumbent water treatment contractor was also overfeeding the wrong chemical – and charging the company for chemicals it didn't need.

Solution

Called in to offer an alternative solution, Garratt-Callahan introduced Formula 305, which works as a general antimicrobial agent by adding chlorine to the cooling towers where bio growth is prominent. Set initially at a hyperchlorination level (producing 5-10 ppm of available chlorine), the feed schedule for the formula was then scaled back and regulated to maintain appropriate levels.

Results

The hyperchlorination reduced the microbiological activity, the tubes did not require re-punching, and chiller approach temperatures were back to normal range (2-4 degrees) within 48 hours. The facility has reduced its energy costs by about \$60,000 a year. And with Formula 305 now on a regular feed schedule strong enough to keep the system clean, the customer is no longer buying unneeded chemicals.

Conclusion

Efficient, cost-effective water treatment is based on experience, know-how, and application of the right product in the right way. With the same kind of quick, scalable solution that worked for this customer, Garratt-Callahan can save you time, energy, and money on your water treatment needs.

Garratt-Callahan: Smart solutions that save energy.