



MANUFACTURING

Where Air Meets Water and Water Meets Metal, Garratt-Callahan's Formula 1012-L Meets the Challenge

Problem

The vented chill water system at a printing plant showed severe corrosion problems. The water was discolored by iron and aluminum corrosion, and the printing press rollers were overheating as a result of plugged chill water passages. Shutting down the presses to clean the cooling system cost the company money in both maintenance and downtime. The challenge was compounded by the system manufacturer's stipulation that the system must be open to the atmosphere rather than "closed". The vented storage tank allowed in too much oxygen for conventional treatments, and the use of a nitrogen blanket to reduce air-water contact was deemed too costly.

Solution

After draining and flushing the system, the Garratt-Callahan field representative refilled it with fresh water and G-C's Formula 1012-L - ideal for treating equipment containing zinc and aluminum. A bypass filter feeder was installed to remove particulates that might plug the cooling passages in the presses.

Results

The chill water has stayed clean and clear, with no sign of fouling – and with no need to shut down the presses to clean the cooling passages in the rollers. Even the bypass filter bag rarely needs cleaning. Now saving some \$10,000 to \$15,000 a year in reduced downtime, the plant has expanded and installed another chill water system – using G-C's 1012-L as part of the mix, of course.

Conclusion

If you know your stuff – from metallurgy to chemistry – you know how to match a water treatment solution to virtually any application, any equipment, any challenge. From the field to the lab and back, Garratt-Callahan technicians know their stuff.

Garratt-Callahan: Expert solutions for complex water treatment problems.