

The University of California, Davis

APPLICATION:

Chemical-Free Water Treatment Exceeds Expectations



Customer Problem with Chemical Water Treatment

Tim Essert, Associate Development Engineer at the University of California, Davis, has over 34 years of professional experience regarding the care and maintenance of water-based cooling systems, especially those servicing the university's Crocker National Laboratory, pictured below. Under chemical treatment, he observed significant scale buildup in the heat exchanger that cools the equipment for the laboratory's cyclotron. Every two years, the heat exchanger needed to be disassembled, and all of its 210 plates had to be cleaned. Since the plates were made of 304 stainless steel, they could not be acid-washed. Wire brushes needed to be used for this purpose, a laborious and time-consuming maintenance task. Tim also detected that the pipes in the cooling system were degraded by a considerable amount of biofilm.

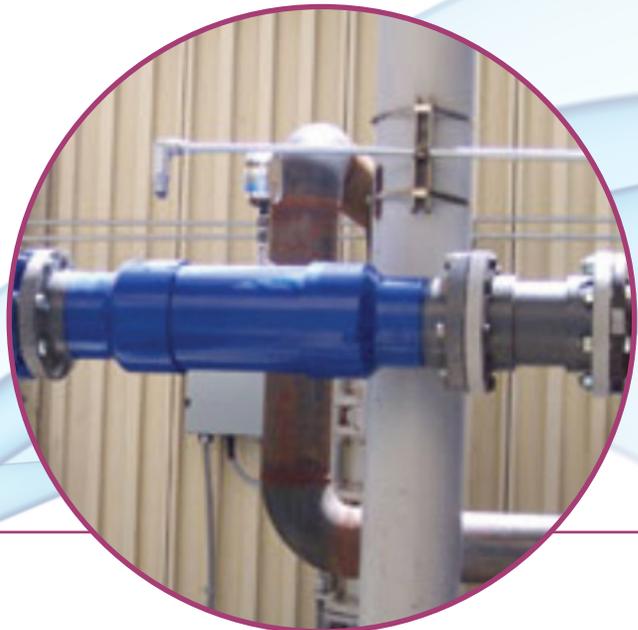


Customer Solution with GWS Wave™ Water Treatment

After switching from chemical treatment to the chemical-free Griswold Water Systems (GWS) Wave™, Essert noted that the scaling had decreased enormously, and the cooling system was able to preserve full flow of the heat exchanger for years on end. Through routine maintenance of the system, he also observed that the biofilm was gone. Essert praised both GWS's superb technology and the level of support that GWS provides: "If I used a rating system where five stars would be the maximum, they [GWS] would have six stars."

Customer Profile

The University of California, Davis, is one of the top public research universities in the United States, as exemplified by the 76-inch isochronous cyclotron, shown above, at the Crocker Nuclear Laboratory. Dedicated to a range of research in both public and private sectors, the cyclotron has been used in nuclear physics, applied solid state physics, radiation effects on electronics used in space missions, planetary geology, and the treatment of ocular melanoma (a rare cancer of the eye).



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