

Heat Exchanger Scale Prevention



Flow-Tech was installed inside the USDA National Animal Disease Center building



Limescale buildup on the heat exchanger before Flow-Tech



Flow-Tech removed and prevented new scale from forming and restored heat exchanger performance



USDA Nation Animal Disease Center: Scale Treatment Case Study



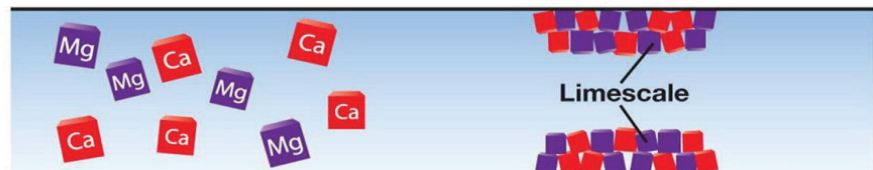
Issue:	Limescale build-up
Installation:	2012
Benefits:	Stopped new scale and removed existing scale

With water hardness averaging over 22 gpg, this USDA research complex was constantly challenged with issues related to limescale buildup. For the past decade the facility treated a number of buildings with conventional ion exchange water softeners. With increased restrictions from local wastewater management regarding return TDS discharge and a desire to be more efficient and environmentally responsible, the decision was made to run a thorough evaluation of the chemical free Flow-Tech water treatment system. A comprehensive study was performed over the course of a year.

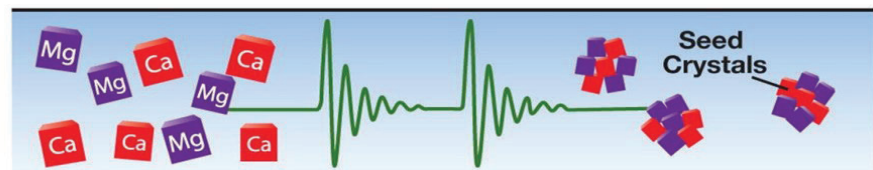
Results

After 13 months of treatment with the Flow-Tech system, the technology not only prevented the formation of new limescale on a manually cleaned heat exchanger, it also completely descaled a limescale encrusted heat exchanger right next to it. Incredibly, these heat exchangers developed this amount of fouling even after being treated with over 750 lbs of salt per month running through a conventional ion exchange system.

WITHOUT FLOW-TECH



WITH FLOW-TECH



Flow-Tech's signal is conducted into the water and provides treatment that can be measured throughout the system with an oscilloscope