

HydroFLOW Case Study - Medical Center Steam Boiler

Updated on May 14, 2019

Customer: Medical Center in Florida.

Equipment: Sussman ES135 Electric Steam Boiler.

Problem: The steam boiler has eight electric heating elements, with an average service life of four years each. The heating elements suffer from excessive scale accumulation of approximately 1/8 of an inch (3 millimeters).

Evaluated *HydroFLOW* Equipment: i60 Model



HYDROFLOW U.S.A.



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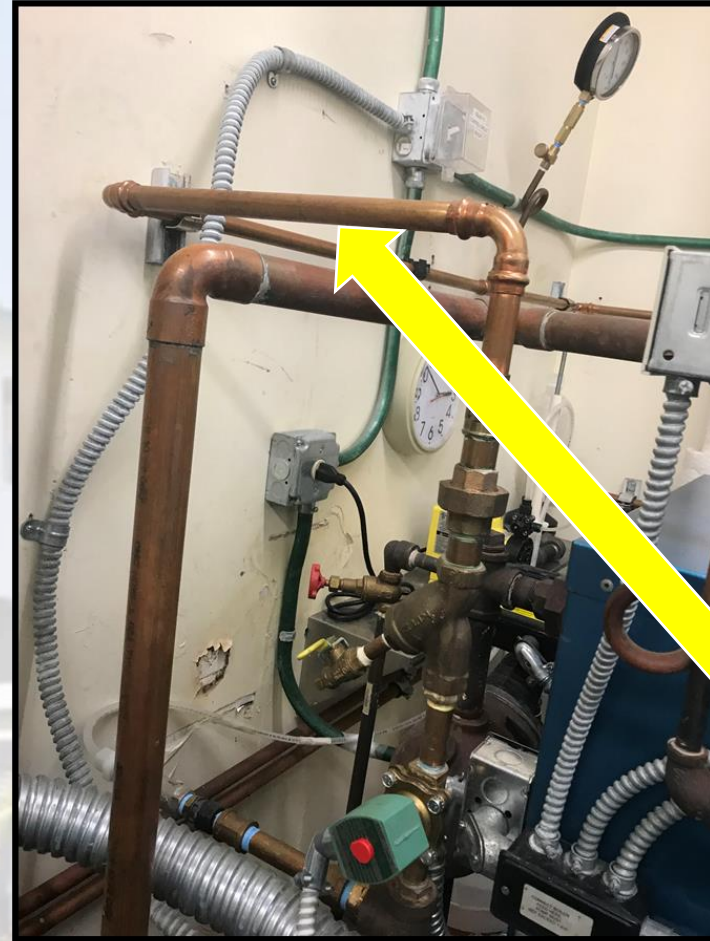


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Main Objectives

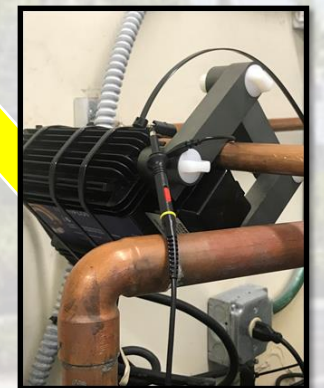
- Reduce the scale accumulation rate by at least 75% on clean heating elements. Scale deposits that might accumulate should be loose and easy to clean.
- Extend service life of heating elements by at least 50%.
- Reduce electrical energy costs through increase in heat transfer efficiency.



A *HydroFLOW* i60 unit was installed on the copper incoming cold water pipe feeding the boiler



Sussman ES135 Electric Steam Boiler



Before and After Photos



After 60 days, there was no new scale accumulation and existing hard scale was removed.

Conclusions

- The *HydroFLOW* i60 successfully prevented hard scale accumulation on the heating elements and inside the heating chambers.
- The *HydroFLOW* i60 removed existing hard scale deposits from the heating elements and heating chambers.
- Some scale deposits were still observed but they were in the form of very loose powder that did not impede water flow or heat transfer efficiency.
- An impressive payback period of 16 months was achieved.

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