

HydroFLOW Cooling Tower-Chiller Installation

California Medical Center

Updated on August 23, 2017

HydroFLOW West Inc.

1955 Jadwin Ave Suite #360, Richland, WA 99354

Phone: 509-940-5555 Email: mike@hydroflowwest.com

www.hydroflowwest.com



Aerial view of the Medical Center



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Custom 24" *HydroFLOW* unit on condenser return line



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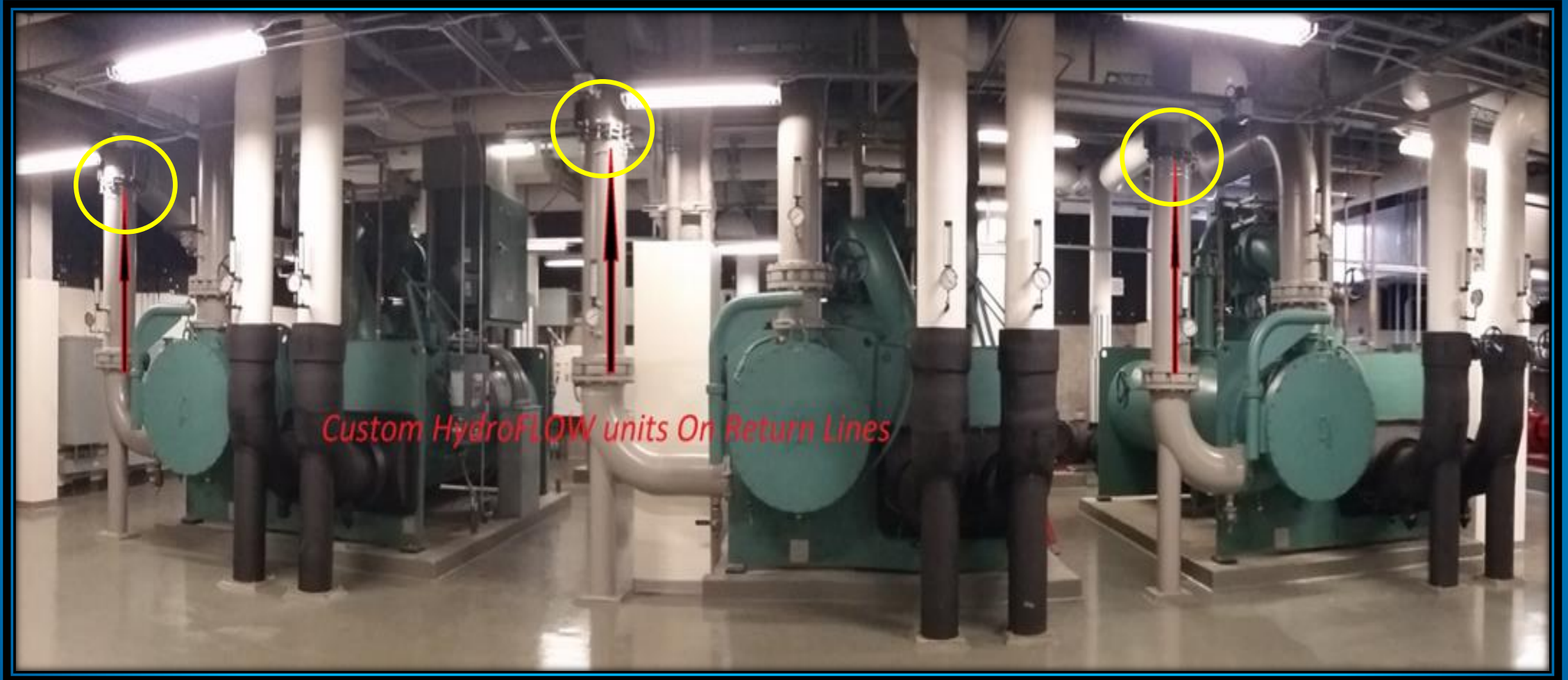
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Custom 14" *HydroFLOW* units on chillers



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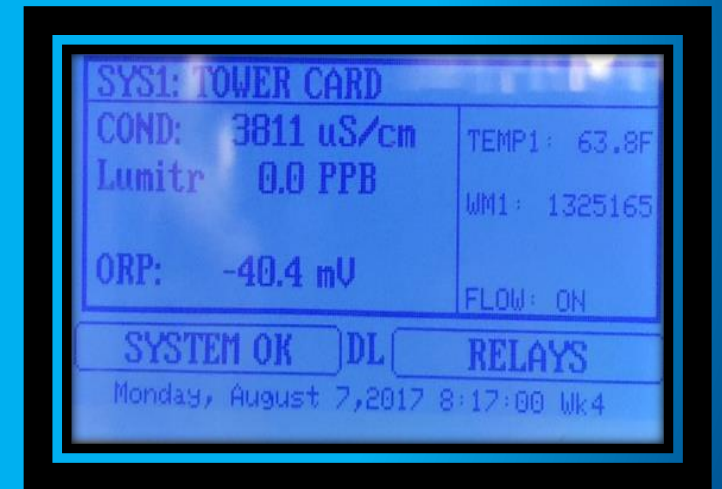


Chemicals, conductivity and side stream filtration

Chemicals were gradually reduced during the first few months after the installation of the *HydroFLOW* eco-friendly devices. Since the cooling tower-chiller system did not show signs of fouling, it was decided to steadily increase the conductivity, with the objective of saving water via reduced blowdown.

Prior to *HydroFLOW*, conductivity had to be maintained at 1,400 μS due to fouling of the system. After chemicals were reduced, the conductivity was steadily increased to 4,000 μS . The tower and chillers remain in excellent condition after months of running at high conductivity.

It's important to note that after running at high conductivity for a few months, the sand in the side stream filter was not performing efficiently. It was replaced with glass bead media, which achieved much better results.

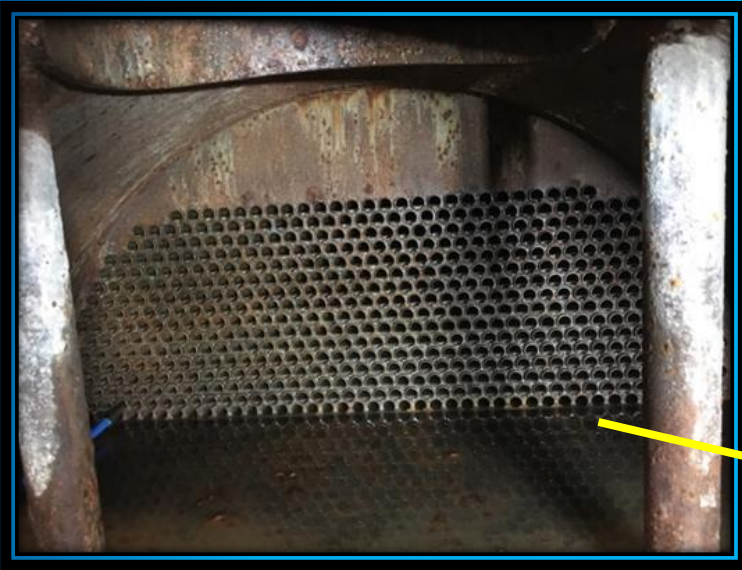


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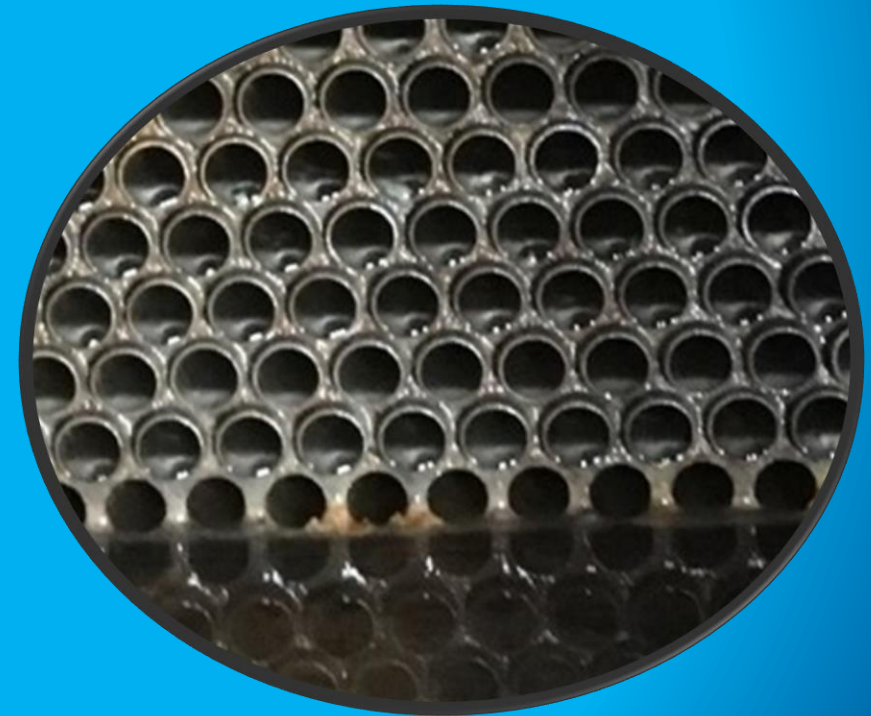
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February 10, 2017 - After 7 month using *HydroFLOW*



Comment by the Medical Center's head of maintenance at the 7 month chiller tube inspection: *"This is the cleanest the chiller tubes had ever been."*



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Achieved key success factors - over a year after installation

- The cooling tower and chillers were maintained within industry standards while reducing chemicals and blowdown water.
- Biocide chemicals were reduced by 75% while keeping CFU counts under 1,000 (close to drinking water quality).
- Due to its ability to remove biofilm colonies, *HydroFLOW* greatly reduced the chance of a legionnaires disease outbreak.
- Anti-scalant and anti-corrosive chemicals were discontinued 4 months after installation.
- Blow-down was reduced by over 65%.
- Payback period was under two years.

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