*Hydro*FLOW Case Study - Municipal Building Chillers

Installed: May 2023
Last Inspection: October 2023

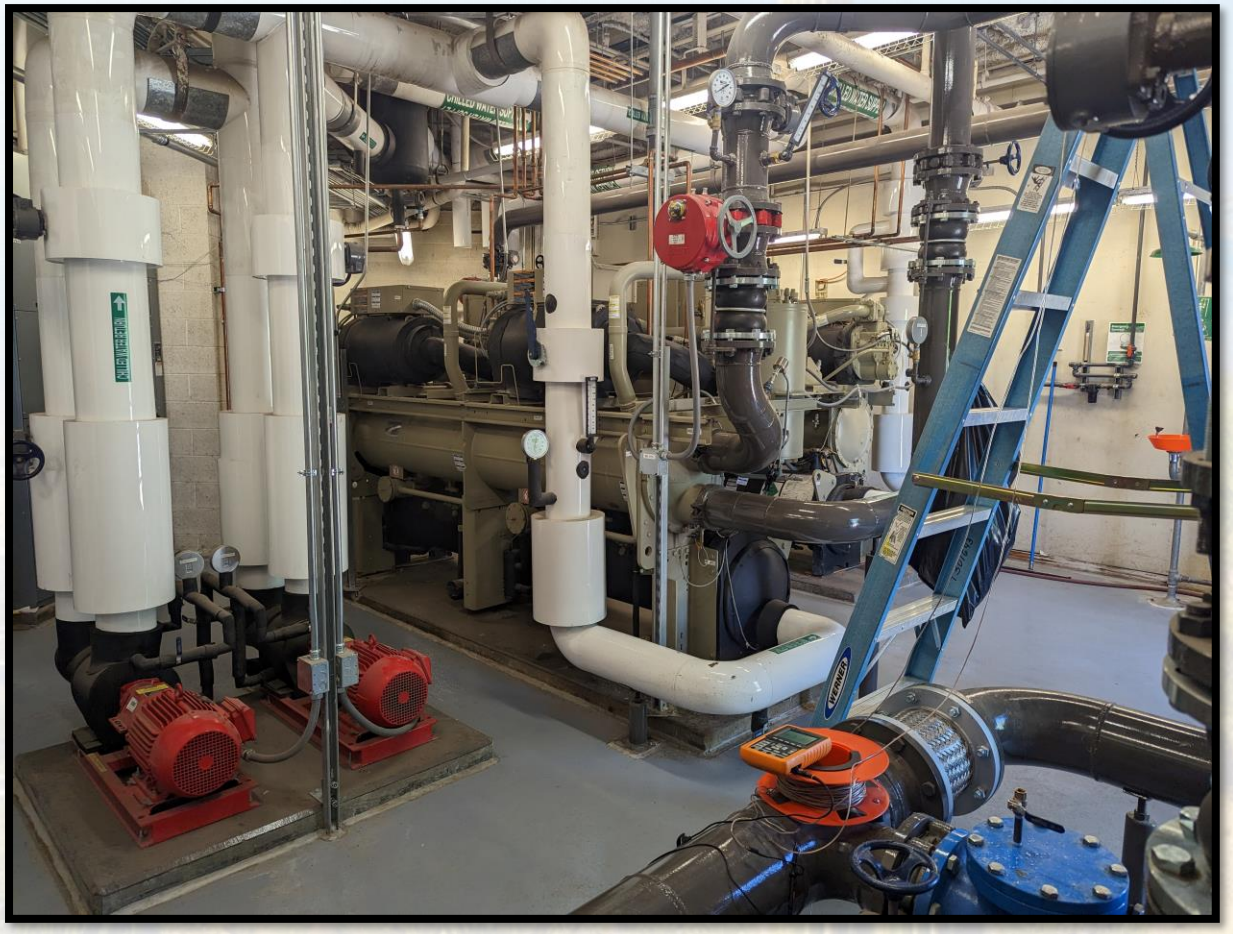
new water innovations
RESPONSIBLE WATER TREATMENT SOLUTIONS

HydroFLOW® U.S.A.

Background

The Customer

A large Municipality in Arizona, United States.



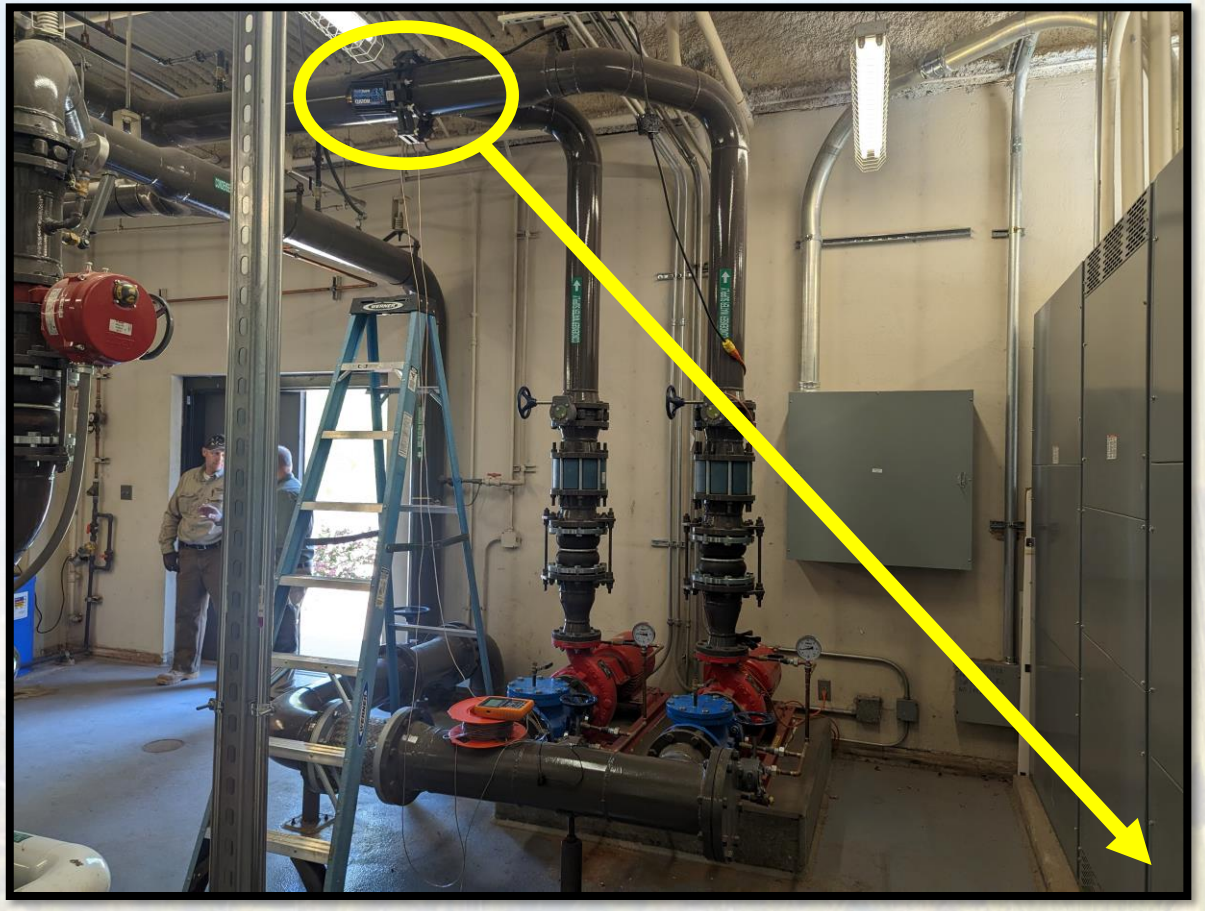
The Customer's Problem

Water scarcity is a serious problem for any facility operating in the Southwest that relies on water to keep its processes and HVAC systems going. The drought in the region has caused organizations to seek creative ways to reduce their water usage.

The Municipality's goal was to reduce the water and chemical usage of their cooling towers, while maintaining them within industry standards. A 5.5-month proof of concept product evaluation was performed to determine *Hydro*FLOW's ability to achieve this objective.

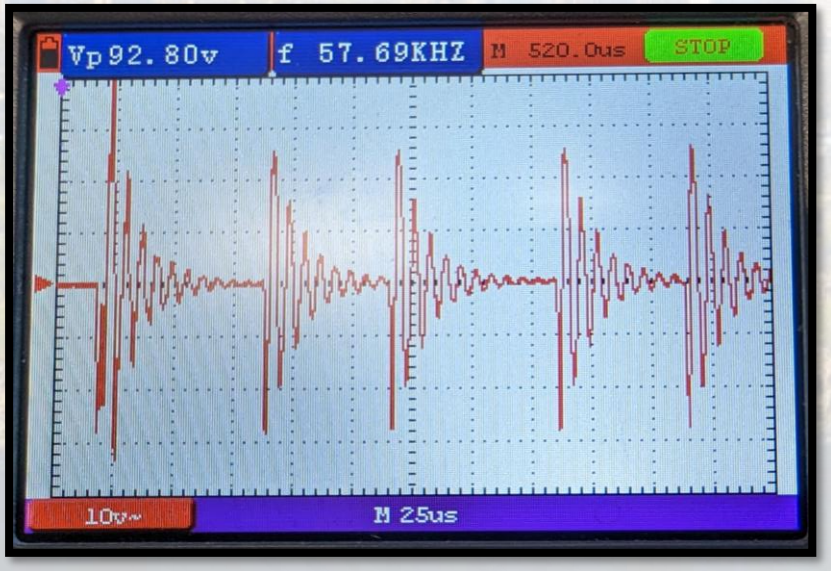
Installed Equipment

On May 1st, 2023, a *Hydro*FLOW i8" Custom unit was installed on the condenser water line between the tower and chiller. Conductivity was increased from 3,000 µS/cm to 7,000 µS/cm and chemical usage was discontinued apart from small amounts of biocide.



Installed *Hydro*FLOW *i*8" Custom Unit

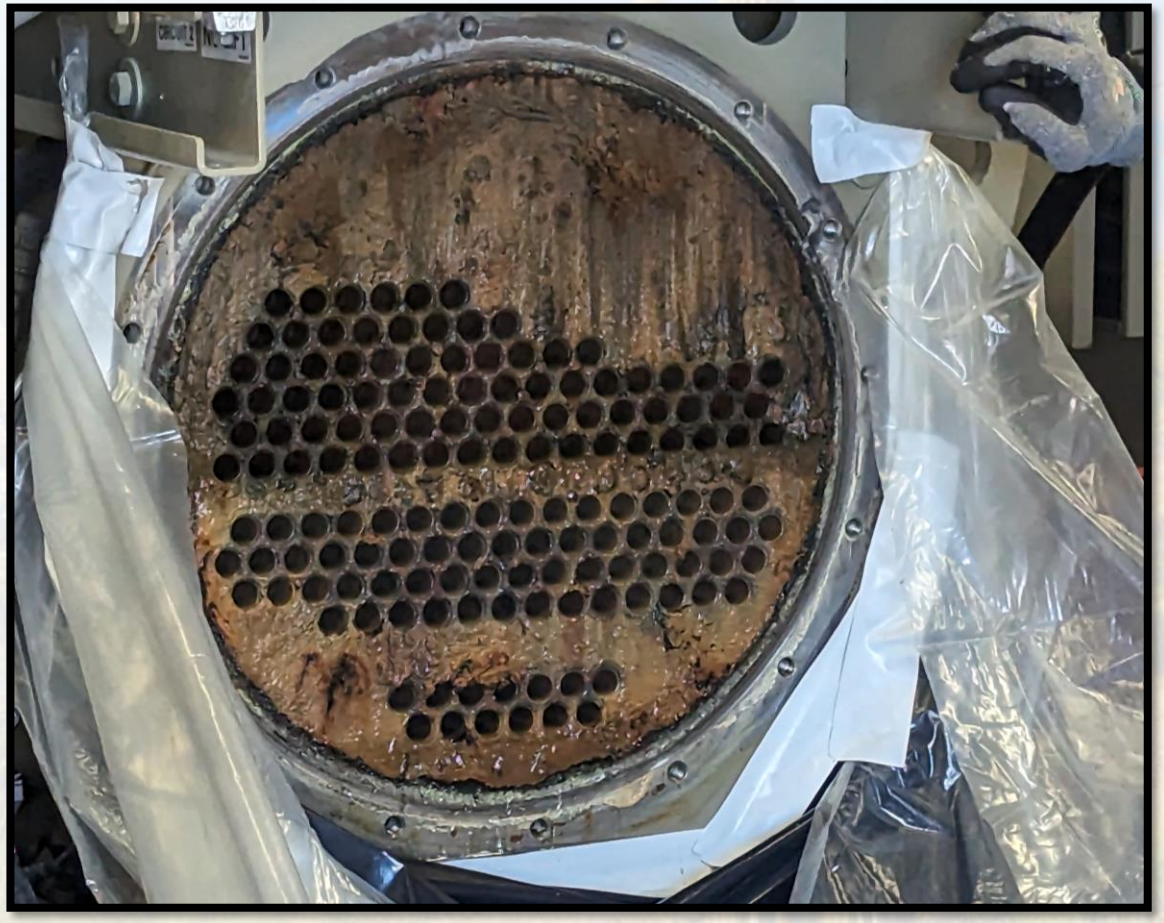
Conductivity meter at 7,000 µS/cm



Hydropath Signal

Results

After 5 ½ months of operation at 7,000 µS/cm, with no chemical treatment apart from reduced amounts of biocide, through the blistering summer months, the chiller was opened for inspection on October 16th, 2023. Upon inspection the chiller was found to be with minimal soft scale deposits and the system's blow-down water usage was reduced by 68%.



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