

Pool System Upgrades Increased Safety & Decreased Costs

Situation

The aging pool systems at Skyview and Mountain Crest high schools were inefficient and expensive to operate. They also required the storing & handling of toxic pool water chemicals.

When Cache County engaged in a performance contract with Johnson Controls, they included multiple aquatic upgrades that focused on how the pool water is treated, circulated, heated, and filtered.

ECM teams also installed Weatherization and Window film measures for JCI at the Cache County School District.

Project Technologies

NEXGEN (On-Site Generation)

On-site production of chlorine in a hypochlorous acid solution alleviates all the unnecessary risks of transporting, storing, and handling bulk chlorine. It also puts an end to ever-increasing chlorine prices.

Liquid Pool Cover

This system adds a nearly undetectable liquid layer on top of the pool water. This reduces evaporation and energy costs.

Smart Pump Control System (SPCS)

SPCS controls the speed of the motor causing the pump to operate where it was selected and designed. This results in the best possible efficiency during operation with minimally detrimental operation to the equipment while maintaining a safe and legal water turnover-rate.

Cache County SD Pools

Industry: Pools 

Location: Cache County, UT

Project Goals:
Increase Safety
Save Money, Energy, & Water

Cost:
\$230,000

Water & Energy Savings:
7.7 Years Simple Payback

Aquatic Scope

Turnkey engineering, installation, and commissioning of 3 systems:

- On-Site Chlorine Generation
- (NaClO with Water Re-use)
- Smart Controls with Filters, Heaters, Chemistry, & Circulation Pump Integration
- Liquid Pool Covers

"The ECM/Aqua teams were outstanding, and the integrated aquatics project was a big success. I look forward to working with ECM to bring these innovative technologies to future clients."

Scott Winger, Johnson Controls

