

CASE STUDY

Global Hyperscaler Reduces *Legionella* Positivity Rates at Two Data Centers with Adiabatic Cooling Systems

Background

A global hyperscaler managing data centers across the United States was struggling with high rates of *Legionella* in the adiabatic cooling units at two sites.

One of the sites, which runs approximately 150 adiabatic units, uses 100% reclaimed water for cooling makeup. Impurities in reclaimed water increase the chances for *Legionella*, making treatment at this data center particularly challenging.

The ChemTreat team was asked to develop a treatment solution to help personnel at both sites reduce *Legionella* positivity rates.

Solution and Results

After evaluating the adiabatic systems at both locations, ChemTreat designed and implemented a unique biocide program for treating *Legionella*.

Both data centers saw a dramatic reduction in *Legionella* rates after implementing our biocide program.

- **93% reduction in *Legionella* positivity rate at the facility using reclaimed makeup water.**
- **76% reduction in *Legionella* positivity rate at the other facility, which uses approximately 400 adiabatic cooling units.**

Lowering *Legionella* positivity rates helped the data centers reduce system downtime needed for remediation treatment, enhancing system availability.

Pleased with the results, the data center company continued using the program and began adopting it at other facilities.



Results are examples only. They are not guaranteed. Actual results may vary.