

HYPER SOLVED



Success Story

CHEMICAL SOLUTIONS POWERING DATA CENTER COOLING

Gradiant is delivering uninterrupted thermal management and intelligent water treatment through an integrated HyperSolved solution for a data center in the UAE. Specialty chemicals, centralized monitoring, and responsive field service ensured zero unplanned cooling downtime and protected Tier IV zero-time data center.

The Challenge

In this Tier IV data center (the highest classification of reliability in the industry), Gradiant HyperSolved delivered a fully resilient water treatment program that protected critical systems from corrosion, scaling, and microbial risk across cooling towers, chilled loops, and potable water. Automated dosing, real-time monitoring, and a fail-safe service model with predictive diagnostics and proactive field support ensured continuity. By extending protection to secondary systems, HyperSolved became a critical safeguard for always-on infrastructure.

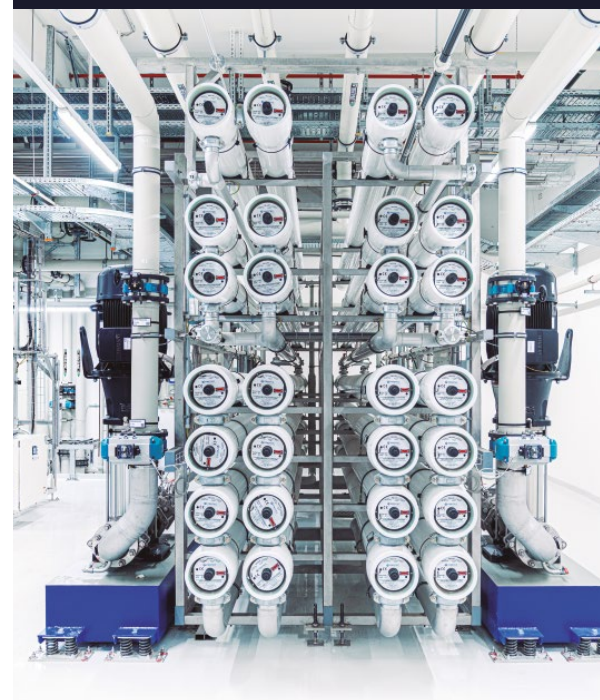
The Solution

To meet Tier IV reliability standards, Gradiant implemented a comprehensive water treatment program across evaporative cooling, closed-loop cooling and potable systems.

The customized CURE chemical suite effectively controlled corrosion, scaling, and microbial risk, while integrated auto-dosing tied to the Building Management System enabled centralized control and real-time data logging. Preventive maintenance included scheduled Planned Preventative Maintenance, third-party microbial testing, corrosion monitoring, and Legionella management. On-site critical spares, 24/7 technical support, and embedded water advisory services ensured resilience, continuity, and emergency readiness.

Fast Facts

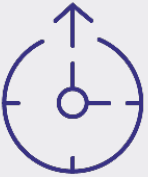
Location	United Arab Emirates
Application	Data Center Cooling Systems
Solution	HyperSolved: <ul style="list-style-type: none">• Evaporative Cooling• Closed-loop Cooling• Potable Water Treatment
Industry	Data Centers
Feedwater Source	City Municipal Water
CURE Chemicals	Scale & Corrosion Inhibitors, Biocide
Service Dates	Since 2013
Delivery Model	Services





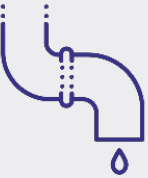
ZERO

Hours unplanned
downtime



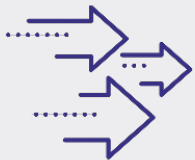
>99.9%

Auto-Dosing
System Uptime



<2 Mils Per Year (MPY)

Corrosion rate on Mild
Steel and Copper



<2 Hours

Average response time
for call-outs

The Benefits

The HyperSolved end-to-end water treatment solution delivered uninterrupted, optimized cooling performance with full-system protection, real-time control, and zero unplanned downtime.

By combining advanced chemistry, automated dosing, and predictive service, Gradiant achieved:

- Zero unplanned treatment system downtime during implementation and operation
- Comprehensive protection against corrosion, scaling, and microbial risk across cooling, domestic, and fire water systems
- Centralized visibility with real-time monitoring and control
- Reduced manual intervention and operator reliance
- Regulatory and safety compliance, including proactive Legionella management
- Rapid emergency response with dedicated on-call technical support
- Continuous optimization through performance reviews and expert consultancy



Learn more at www.gradiant.com/solutions/hypersolved

Contact Gradiant today at gradiant.com/contact

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