



CASE STUDY

Extending Equipment Life and Boosting Efficiency with Non-Abrasive Chemical Washes

Universal Plant Services' most recent case study reveals how we have revolutionized gas compression cooler maintenance by replacing high-pressure washing with an innovative, environmentally friendly chemical cleaning method—delivering safer, more efficient results.

THE PROBLEM

- Excess dirt and grime buildup
- Elevated machine temperatures
- Engine derates resulting in lower gas throughput
- Risk of corrosion and erosion
- Rising maintenance costs and shortened equipment lifespan

OBJECTIVES

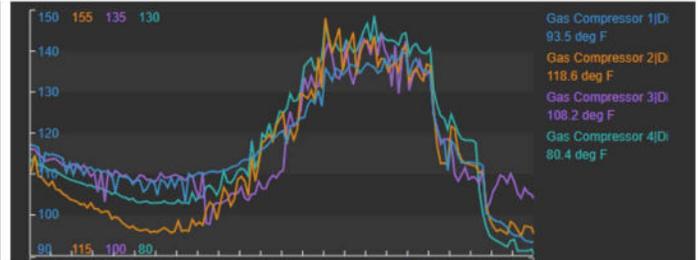
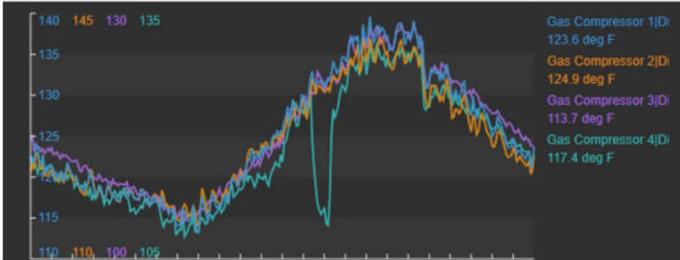
- Implement a safer, non-damaging cleaning method
- Lower operating temperatures
- Improve system runtime and efficiency
- Reduce glycol and methanol consumption
- Protect downstream equipment by improving gas quality

OUR SOLUTION

UPS introduced a non-abrasive, chemical cleaning solution using water-based agents designed to remove dirt, corrosion, and solids without the risk of damaging sensitive cooler fins. Unlike high-pressure washing, this method ensures deeper, more consistent cleaning with less mechanical stress. This advanced cleaning strategy was applied to gas compression coolers and water separators.

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OUTCOME


Cooler Gas

Lower discharge temps meant less moisture and a reduced load on dehydration systems

Improved Engine Performance

More stable jacket water temperatures and reduced risk of derates

Reduced Costs

Less glycol and methanol consumption, fewer pump failures, and longer filter life

Extended Equipment Life

Less erosion, corrosion, and wear across the system

Increased Uptime

Equipment was able to run closer to its designed capacity for longer durations

Following a comprehensive cleaning, customers can expect a noticeable reduction in energy consumption, driven by improved airflow and more efficient heat transfer. This essential maintenance enhances overall system performance and delivers measurable cost savings by lowering fan motor loads and reducing runtime demands.

Contact Our Team

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