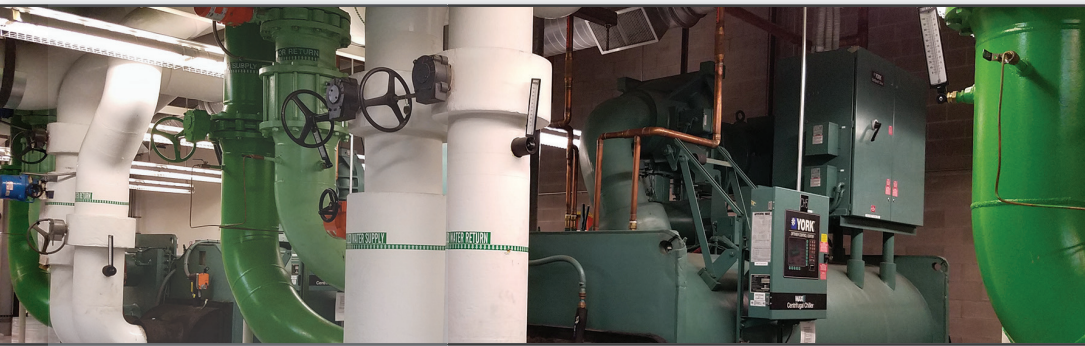


UNCOVER HIDDEN ENERGY SAVINGS

with  **ClimaCheck**



ClimaCheck is a powerful chiller analytics platform that helps identify equipment and system degradation. By applying highly accurate sensors to the refrigeration cycle, ClimaCheck is able to deliver greater insights to help identify chiller performance deficiencies.

COMMON FINDINGS Identified Using ClimaCheck

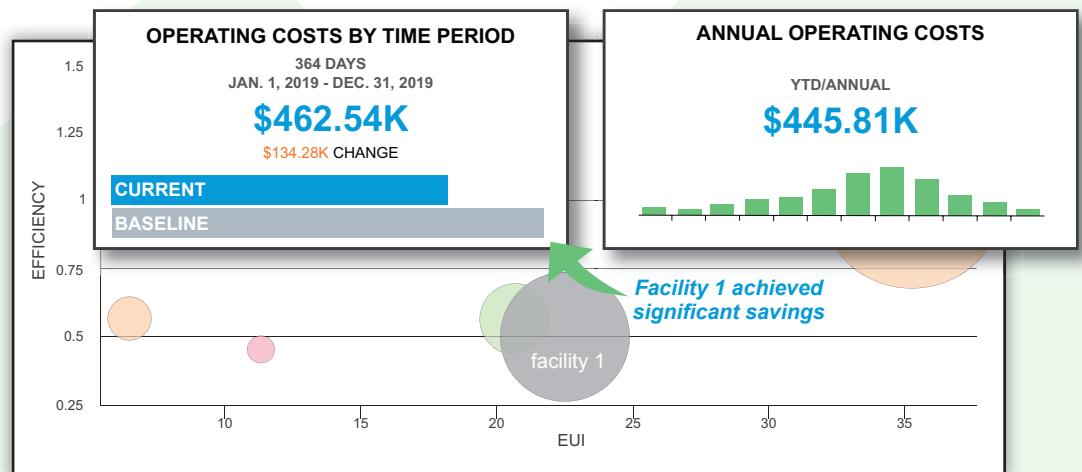
- Refrigerant under/over charge
- Low refrigerant
- Refrigerant sensor issues
- Incorrect VGD wiring
- Bad IGV actuators
- Resetting surge maps
- System flow imbalances
- Chiller equipment deficiencies
- Condenser and evaporator performance degradation
- Chiller performance anomalies
- Issues related to peripheral equipment

LONG-TERM BENEFITS with Continued Use of ClimaCheck

- Energy savings opportunities
- Improved equipment reliability and longevity
- Increased maintenance productivity

ClimaCheck integrates a suite of sensors with data analytics software designed to provide new and useful insights into chiller performance. ClimaCheck is created for air-cooled chillers, water-cooled chillers, and single or multi-circuit compressor units.

Organizations that use ClimaCheck are able to identify chiller and compressor deficiencies to avoid catastrophic failures, while improving system performance and energy efficiency.



INTEGRATING CLIMACHECK WITH OUR ANALYTICS PLATFORM

ETC Group integrates ClimaCheck into its comprehensive analytics platform to create the industry's most powerful energy efficiency technology solution.

To learn more about how ETC Group can help you find energy savings opportunities using ClimaCheck, go to etcgrp.com.

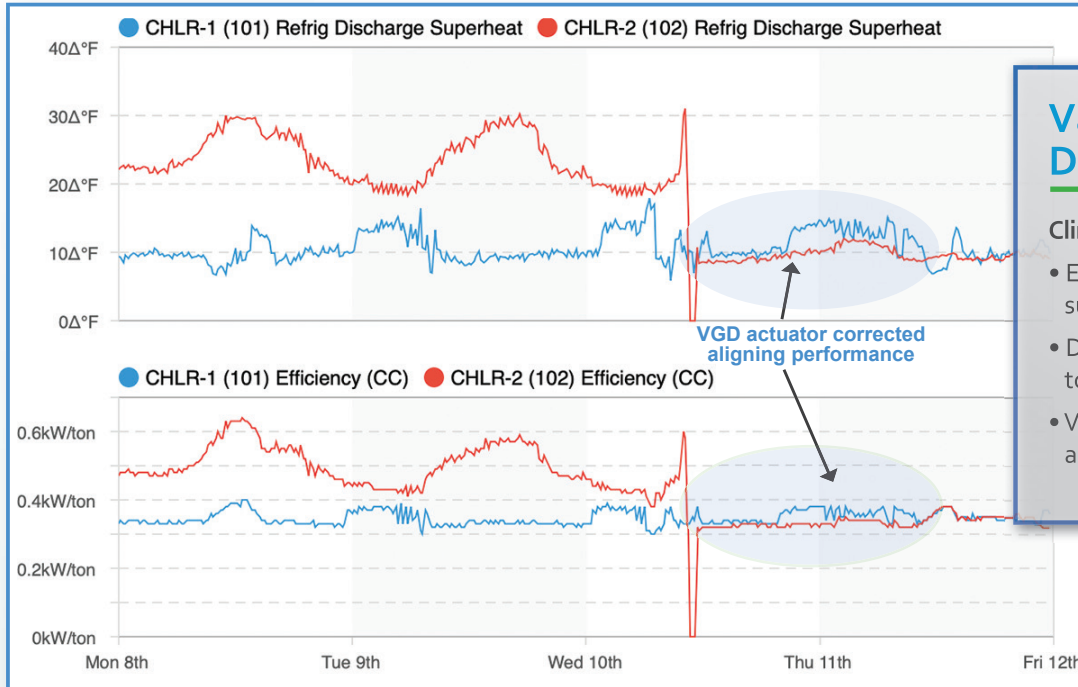


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SUCCESS USING ClimaCheck

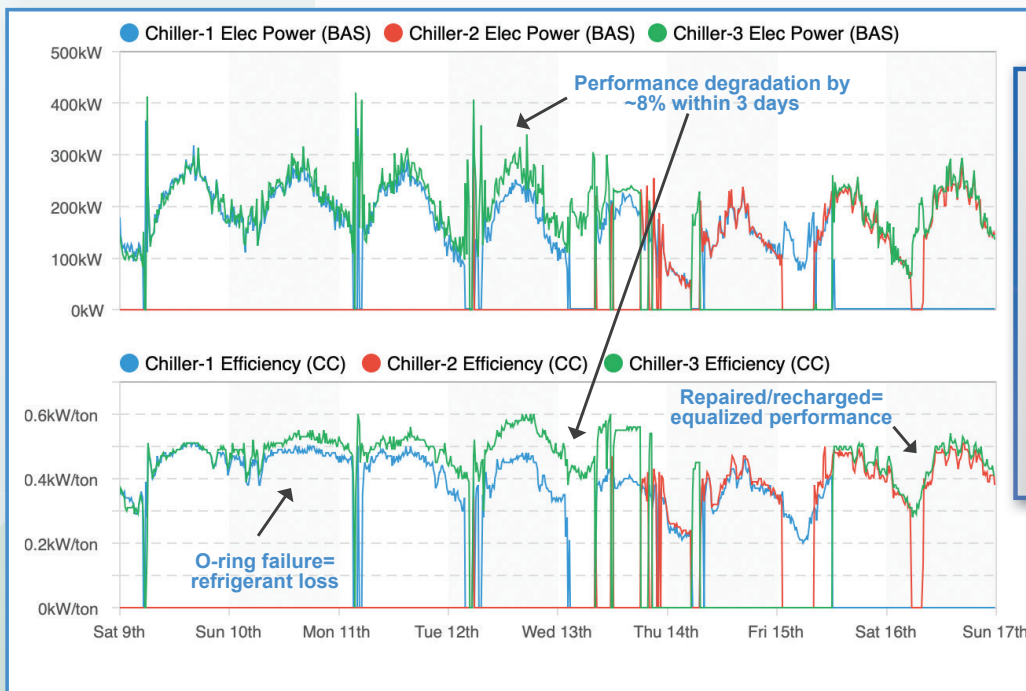
ETC Group is a leader in energy efficiency, commissioning, and engineering. As a data-driven company, we pride ourselves on delivering measurable results. Our Climacheck analytics platform is our most in-depth chiller energy efficiency and diagnostic solution.



Variable Geometry Diffuser Resolution

ClimaCheck Found and Resolved:

- Extremely high discharge superheat
- Degraded efficiency compared to its "twin" chiller.
- Variable Geometry Diffuser actuator installed incorrectly



O-ring Failure Resolution

As part of a Monitoring-based Commissioning (MBCx) service, ETC Group used ClimaCheck to uncover an O-ring failure.

Quickly identifying/correcting the issue saved significant energy for the facility.