

CASE STUDY

A-Gas Rapid Recovery Achieves Major Data Center Environmental Milestone



BACKGROUND

About Global Technology Provider

A global technology provider with data centers worldwide plays a major role in the global infrastructure that interconnects digital lives. With a focus on sustainability, they are committed to reducing their environmental impact.

About A-Gas

A-Gas is building a sustainable future through the supply of lower global warming refrigerants combined with responsible lifecycle management of refrigerant gases. Through our first-class recovery, reclamation, and repurposing processes, we capture refrigerants and fire protection gases for future re-use or safe destruction, preventing harmful release into the atmosphere.

Rapid Recovery®

Rapid Recovery is A-Gas' premier refrigerant recovery service. Across the globe, we provide a safe and fast on-site recovery solution, which includes industry-leading EPA documentation and refrigerant analysis.

CHALLENGE

With a data center operating with R410A to cool its servers, a global technology provider reached out to A-Gas Rapid Recovery to recover a large amount of refrigerant across five buildings and 222 cooling units which were being decommissioned. Beyond the logistic of managing a large amount of systems, the recovery needed to happen during extreme heat, which could put the data center's servers with valuable data at risk.

AT A GLANCE

Challenges

- Recover large amount of refrigerant across five buildings and 222 systems
- Complete work during extreme heat weather conditions

Benefits

- Environmental: Safe and compliant recovery of refrigerant, preventing its release into the atmosphere and significantly reducing potential emissions
- Economic: Generate revenue for the technology provider from used recovered refrigerant
- Other: Reliable partner dedicated to safety and customer-focused problem solving

SOLUTION

A-Gas Rapid Recovery, an onsite recovery service that provides a solution 10 times faster than traditional recovery methods, was appointed to assist with recovering the high GWP gas used in the data center.

The A-Gas Rapid Recovery equipment is independent of services like power, is portable, and, with hoses spanning over 300 feet, it can reach units in most places. A-Gas Rapid Recovery was the perfect solution for this difficult decommissioning project, where efficiency was key. By leveraging A-Gas' team of EPA-certified technicians to manage the recovery process, contractors were able to focus on other critical tasks associated with this large-scale project.



RESULTS

Operating in two separate projects, the team divided the work to ensure continued operations. The first project spanned four weeks and included recoveries from 92 units across two buildings, recovering over 29,000 pounds of R410A. The second project spanned five weeks and included recoveries from 130 units across three buildings, recovering over 44,000 pounds of R410A.

With the recovery job being in an area with extreme heat, the A-Gas Team knew that additional safety precautions would be necessary to ensure the job was done safely. Six technicians were on the job to support the work on the roof, on the ground, in the truck, and supporting the ISO which was used to contain the recovered refrigerant.

CONCLUSION

The A-Gas Rapid Recovery Team successfully recovered over 73,000 pounds of R410A across 222 units in five buildings. By providing a quick and easy way to recover refrigerant, the technology provider continued to operate as usual, keeping its customers' and users' data secure.

The recovered refrigerant from the data center has been reclaimed to AHRI 700 standard and US EPA regulations, enabling its re-entry into the market for reuse. Through the complete recovery and reclamation of existing refrigerants, emissions to atmosphere have been minimized and less virgin refrigerant is required to be manufactured.

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Over 73,000 pounds of R410A recovered and reclaimed, equivalent to avoiding 70,226 tons of CO₂e.