

A-Gas Recovers R407C for International Train Equipment Provider in Singapore

BACKGROUND

About CRRC Nanjing Puzhen Co., Ltd

The CRRC Nanjing Puzhen Group Co., Ltd is a major manufacturer of rail transport equipment based in China. It offers a wide variety of products and services globally, including train carriage parts, refurbishment, routine maintenance projects and more. It is committed to lowering its carbon footprint, supplying innovative products to its customers worldwide.

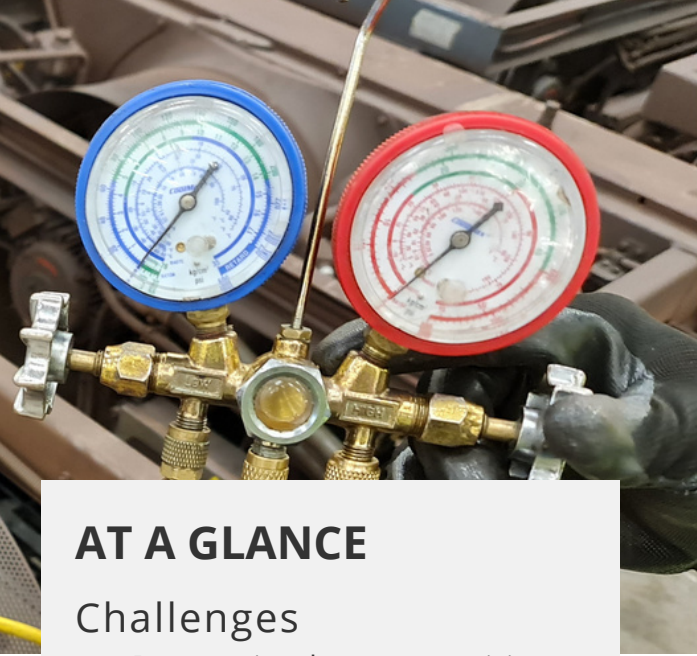
About A-Gas

A-Gas is a world leader in the supply and lifecycle management of refrigerants and associated products and services. 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.

For 30 years, A-Gas has supported our clients and partners on their environmental journey by supplying lower global warming gases and actively increasing the circularity of the industries we serve, building a sustainable future.

CHALLENGE

R407C, a HFC refrigerant, has a high Global Warming Potential (GWP) and poses a risk to the atmosphere if released. A-Gas signed a three-year contract with Singapore CRRC Puzhen Railway Vehicles Service Pte Ltd., a part of the international CRRC Group, to recover a large quantity of R407C from the air conditioning and ventilation systems on its decommissioned trains.



AT A GLANCE

Challenges

- Recovering large quantities of R407C from numerous but small charge-size air conditioning and ventilation systems for a major train equipment provider in Southeast Asia.
- Supplying efficient and convenient refrigerant recovery services to the customer, on-site at its manufacturing, engineering and other depots.
- Supporting the customer with consistent and high quality recovery services over a long timeframe, ensuring that refrigerant is not released into the atmosphere.

Benefits

- Provision of an effective Lifecycle Refrigerant Management (LRM) solution that meets the customer's requirements.
- Collaborating to secure a three-year contract between A-Gas and the customer.
- Use of skilled technicians and portable recovery equipment to ensure the project was completed to a high standard.

The trains have one system per cabin, each containing about 5kg of refrigerant. This required A-Gas' technicians to move from carriage to carriage, carrying out multiple small recoveries. This process is both difficult and time-consuming, requiring skilled and adaptable technicians and recovery equipment.

SOLUTION

A-Gas' technicians travelled to the Sengkang Depot in Singapore to carry out the initial recovery projects. Using specialised and portable A-Gas equipment, they were able to effectively and safely recover the refrigerant and prevent its release to atmosphere.

RESULTS

So far, A-Gas has recovered a total of approximately 337kgs of R407C. The refrigerant has been transported to A-Gas' facility to become certified reclaimed product for future use. By ensuring that the refrigerant is repurposed and not released, A-Gas is protecting and enhancing the environment in line with the customer's values.

CONCLUSION

A-Gas prides itself on providing refrigerant recovery services which are the starting point in delivering effective Lifecycle Refrigerant Management (LRM) solutions, and is pleased to be supporting Singapore CRRC Puzhen Railway Vehicles Service Pte Ltd.'s with meeting its goals.

Signing this long-term contract shows that A-Gas can be relied upon to provide a service that benefits both its customers and the environment in the years to come.



A-Gas has consistently demonstrated an unwavering commitment to delivering both environmentally beneficial and highly efficient solutions. Your results attained so far have solidified our belief in A-Gas' capability to not only meet but also exceed our requirements.

The exceptional work and results achieved by A-Gas have significantly contributed to our shared goals of sustainability, efficiency, and overall environmental responsibility. The work delivered has not only been impressive but also pivotal in our joint mission to create a more sustainable future.

**Yongqiang Li, CRRC Nanjing
Puzhen Co., Ltd**



By recovering and reclaiming the R407C on behalf of the customer, A-Gas has initially abated 597 metric tons of CO2e, that otherwise may have been released into the atmosphere.