

3 FURNACE PROJECT IN SWEDEN

A look into one of our more recent contracts, Birwelco limited completed a highly successful contract in Sweden.

PROJECT

UnitBirwelco was commissioned to design and supply three advanced process furnaces for a new heater unit at the Gothenburg refinery in Sweden, in collaboration with AF, Gothenburg. These furnaces play a critical role in a new process unit dedicated to the production of Green Diesel and Jet Fuel, aligning with the refinery's sustainability and emissions reduction goals.

Technical Specifications

- ① Overall Efficiency: 92%
- ① Total Firing Duty: 10.6 MW
- ① Combustion Air Temperature: 246°C

The Heater at Sweden Site was designed with a strong emphasis on sustainability and operational efficiency. By achieving an overall efficiency of 92%, UnitBirwelco helped the refinery significantly reduce fuel consumption and carbon footprint. The integration of advanced burner technology and optimized heat recovery systems further enhanced performance.

Meeting Global Environmental Standards

- ① **NOx Emissions:** 30 mg/Nm³ (corrected at 3% O₂ Dry Basis)
- ① **Ammonia Slip:** 5 ppmv (at 3% O₂ Dry Basis)
- ① **Carbon Monoxide (CO):** 40 ppmv at max firing (at 3% O₂ Dry Basis)
- ① **Particulate Matter (PM) Emissions:** Max 5 mg/Nm³

Conclusion

The successful implementation of the heater at the Gothenburg refinery in Sweden demonstrates UnitBirwelco's expertise in delivering high-performance, low-emission combustion systems for next-generation biofuels. This project stands as a benchmark in refinery technology, ensuring compliance with environmental norms while supporting the transition to sustainable fuel production.



CONTACT

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