

Lurgi OxyClaus™

The OxyClaus™ technology is a cost effective solution to increase the capacity of existing Sulfur Recovery Units (SRU) up to 200%. With two separate combustion zones it ensures the complete combustion of impurities such as RSH, NH₃ or hydrocarbons.

FEEDSTOCKS

Acid Gases deriving from syngas purification, gas sweetening units and sour water strippers mainly containing H₂S and carbon dioxide.

APPLICATIONS

Recovery of liquid or solid elemental sulfur from acid gas streams containing hydrogen sulfide (H₂S) with injection of high concentrated oxygen. The technology can be used for new SRU plants or debottlenecking of existing units.

PRODUCTS

- Bright yellow sulfur with up to 99.9% purity
- HP or MP steam

REFERENCES

- More than 40 references for OxyClaus™ (more than 170 conventional SRUs)
- Air Liquide Engineering & Construction has experience with its own OxyClaus™ units in operation since 2013
- More than 60 years of SRU experience in designing and engineering



HIGHLIGHTS

- Capacity boosting of existing Claus and Tailgas Treatment units up to 200%
- Significant reduction in capital investment for new SRU
- Processing of feed gases with both high or low H₂S content
- Complete combustion of ammonia or RSH contained in acid gases
- Automatic change over from air operation to oxygen operation and vice versa

SERVICE OVERVIEW

We can provide high purity gasification-based syngas for catalytic downstream applications.

Our services comprise:

- consultancy
- research and development
- Process improvements and advisory service
- pre-feasibility and feasibility studies
- product marketing
- engineering
- architectural design
- construction
- installation
- repair
- contracting services

