

# **Lurgi OxyClaus**™

The OxyClaus<sup>™</sup> technology is an 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,  $NH_3$  or hydrocarbons.

#### **FEEDSTOCKS**

Acid Gases deriving from syngas purification, gas sweetening units and sour water strippers mainly containing  $H_2S$  and carbon dioxide.

#### **APPLICATIONS**

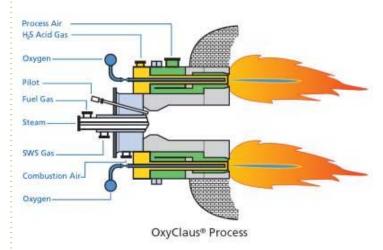
Recovery of liquid or solid elemental sulfur from acid gas streams containing hydrogen sulfide ( $H_2S$ ) with injection of high concentrated oxygen. The technology can be used for new SRU plants or debottlenecking of existing units.

#### **PRODUCTS**

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

#### **REFERENCES**

- More than 40 references for OxyClaus<sup>™</sup> (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 H<sub>2</sub>S content
- Complete combustion of ammonia or RSH contained in acid gases
- Automatic change over form 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