

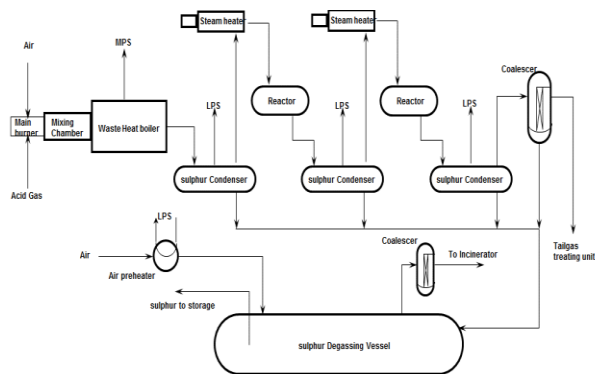


SRU, Claus Technology

SRU stands for Sulphur Recovery Unit. Claus Technology is a process where H_2S rich gas is being converted into elementary liquid sulphur and water. As liquid sulphur is being produced this product is recovered and routed to a sulphur degasser. In the degasser the liquid sulphur is stripped with steam to remove all dissolved H_2S .

The Claus process is a safe and environmental friendly process. Through-out the world many SRU's has been installed producing liquid sulphur and minimizing H_2S emission.

A sketch of the Claus process is provided below.



Claus based processes are already used for decades for the destruction of H_2S . It is often the most cost efficient and simple process. This process can be found in almost every refinery and every sour gas plant which has to deal with H_2S .

SRU can remove/convert H_2S to around 95% and the remaining 5% H_2S is routed to a Tail Gas Treating Unit to increase the sulphur recovery to around 99.9%. The Claus process also produces HP or LP steam for further usage.

The SRU contains the following main equipment:-

- Main burner for the Modified Claus process.
- Waste heat boiler for steam production.
- Condensers for elemental sulphur recovery.
- Reheaters to achieve optimal inlet temperature for the reactors.
- Reactors/converters to increase overall recovery.
- Coalescer drum to remove sulphur mist.

- Sulphur degasser to remove dissolved H_2S .

NAPTA can provide assistance during design, installation, operation and troubleshooting of the SRU installations. In the project phase, NAPTA can support in project development phases as P&ID, Hazop review etc. Also NAPTA can advise on equipment design and selection and also advise on the materials for construction. NAPTA experts can conduct a site visit for better understanding of site-specific issues; and training of local operational and technical staff.

The provided services can help you to:-

- Identify causes of the problems encountered in your SRU.
- Optimise the operation of the unit.
- Provide long lasting solutions.

For more information, please contact with NAPTA's SRU, Claus Technology SME Mr Egbert van Hoorn via herein below contact details.

Contact

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