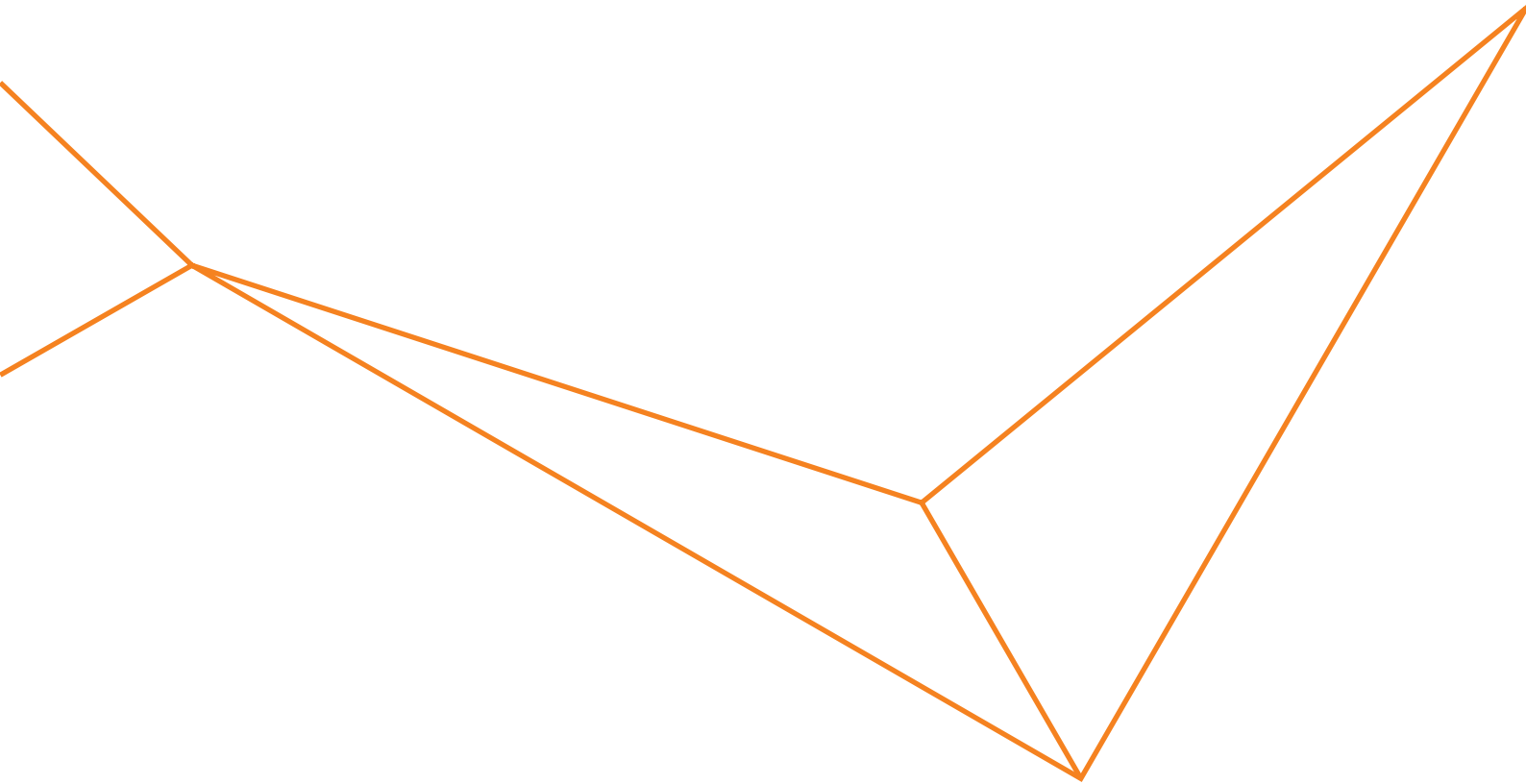
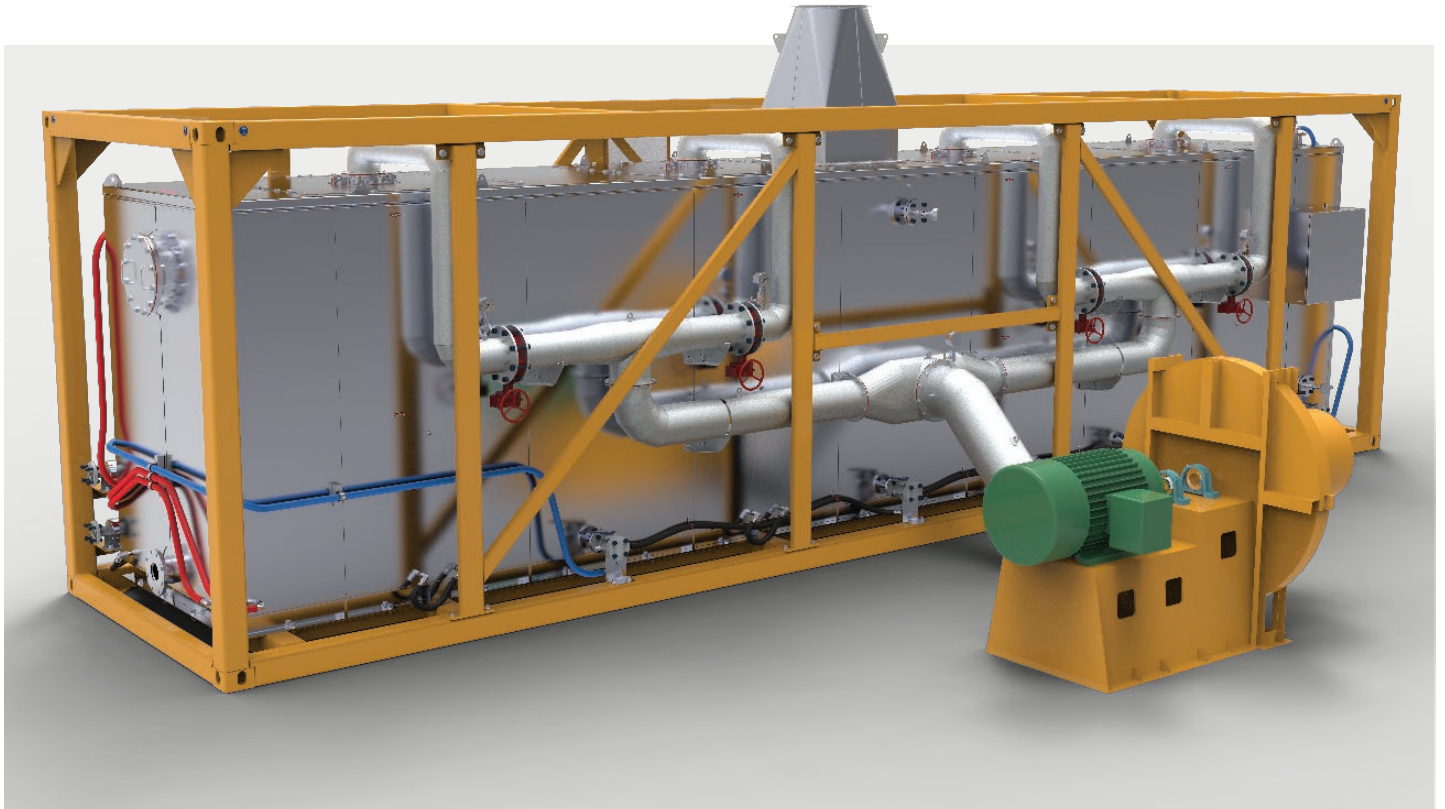




# BRIMROCK DG SERIES SULPHUR DEGASSER



# MAXIMUM DEGASSING CAPABILITY TO BELOW 10 PPM H<sub>2</sub>S



In today's changing sulphur industry landscape, product quality and safety are more important than ever. The Brimrock sulphur degasser is an efficient and economical process for reducing poisonous hydrogen sulfide in liquid sulphur. Designed by experts in sulphur degassing technology with extensive operations experience, our liquid sulphur degasser is the new standard for reliable reduction in hydrogen sulfide.

Key benefits of this system include:

- Maximum degassing capability, mitigating potential for downstream regulatory violations
- Reduced H<sub>2</sub>S concentration in plant environments
- Continuous flow through processing capability
- Efficient use of energy

# DESIGNED BY EXPERTS IN SULPHUR DEGASSING TECHNOLOGY OUR LIQUID SULPHUR DEGASSER IS THE NEW STANDARD FOR RELIABLE REDUCTION IN HYDROGEN SULFIDE



## BRIMROCK DEGASSER UTILITIES

■ Steam flow (Normal)	50 kg/hr
■ Steam flow (Standby)	25 kg/hr
■ Steam pressure	3.5 bar (g)
■ Electrical power	115 kW
■ Instrument air	1,680 l/hr

## BRIMROCK DEGASSER PLOT SPACE AND SKID WEIGHTS

### PRIMARY SKID

■ 2.448m W x 12.192m L x 3.357m H
■ 21,500 kg

### BREAK BULK SHIPPING

■ Miscellaneous components shipped in 40' sea container (10,000 kg).
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## SELF-CONTAINED UNIT DELIVERING SUPERIOR ENVIRONMENTAL PERFORMANCE

Molten sulphur is pumped through the degassing reactor which is designed to provide the required residence time to ensure efficient degassing.

Billions of tiny air bubbles are introduced by an air blower to allow for transfer of evolving  $H_2S$  gas from the molten liquid to the headspace of the sealed reactor tank.

A catalyst injection pump provides a measured volume of select catalysts to quickly reduce the  $H_2S_x$  hydrogen polysulfide molecules to gaseous  $H_2S$  to facilitate complete degassing of both  $H_2S$  and  $H_2S_x$  species existing in equilibrium within the molten sulphur.

Because the reactor is under negative pressure, the air injected into the molten sulphur within the stainless steel, steam jacketed degassing tank is withdrawn from the headspace with a sweep air stream.

$H_2S$  rich airflow exits the degassing reactor and is transferred via ducting to an appropriate effluent treatment system while the  $H_2S$  lean molten sulphur is transferred to downstream systems.

- Self contained, compact, portable and flexible; skid mounted, fully wired, all piping installed on skid, simple battery limit connections.
- Superior environmental and HSE performance – system operates continuously under negative pressure

in a fully contained system with reduced potential for spills.

- Limited manual labor or exposure to potential hazards.
- Low operating and maintenance cost – proven pumps and instruments suitable for sulphur service, robust design and few moving parts.
- Easy to use controls and process trend data collection.
- Designed and constructed to meet all regulatory requirements worldwide; will meet or exceed International and North American codes and standards.

We can offer advice on various effluent treatment systems including thermal oxidation, carbon adsorption or caustic scrubbing.

S-PS428-D-ENG-14



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