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СИСТЕМЫ КОНТРОЛЯ ВЫБРОСОВ

Система улавливания углерода

Технические характеристики



GEA CEBO CARBON CAPTURING

We understand that adopting a Carbon Capture technology is an investment in the future. Our portfolio tailored to your specific needs, ensuring you receive the best value for your investment.

Key benefits of partnering with us - unique features of GEA CO₂ Capture Plants:

1. Fit to your need.

Modularized, compact design for low space requirement and easy, cost-efficient installation on site.

Plant sizes from 16 to 200 ktpa of CO₂ capture capacity.

Excellent CO₂ capture efficiency by use of high-performance amine chemistry.

Low energy consumption by optimized plant configuration and energy integration on site by means of Waste-Heat-Recovery units.

Long plant life thanks to use of corrosion-resistant materials, such as thermoplastic or stainless steel.

Pilot plant with 100% transparency and full access during operation.

2. Easy Operation.

Fast project completion thanks to high degree of standardization.

Simple operation, thanks to GEA's on-board self-optimizing control system.

"You never walk alone" by the help of GEA's service & operation support concept.

3. Cost Effective.

Highly economic projects due to optimized CAPEX and OPEX of GEA units.

No project risk due to GEA's comprehensive process guarantees.

How it works?

Understanding GEA Carbon Capture Technology:

The principle of CO₂ capture by physical-chemical absorption processes has been known for decades and has proven in the processes of sour gas treatment, natural gas or biogas processing and ammonia production. The challenge for CCUS today is to adapt these concepts for oxygen rich flue gas from heavy industry. This is clearly a strength of GEA, as GEA has been active in off-gas treatment in relevant industries for decades and has a high level of knowledge about the accompanying trace substances and critical points when integrating a CO₂ capture process into an existing off-gas line.

From the sump of the absorber column, the rich amine solution is fed into the desorber column. Before this, the solution passes through a heat exchanger for preheating. In the desorber, the solution is further heated to release the chemically bound CO₂. The CO₂ can then be recovered as a product stream at the head of the desorber column after condensation of water. The purity of the CO₂ stream is typically > 97 % (2 bara, 40 °C), with the residuals consisting mainly of water vapor. Depending on the intended use of the CO₂, further purification steps are carried out.

The amine solutions used by GEA are commercially available and are continuously tested in various industries with GEA's own pilot scale units. The entire chain from pretreatment to separation of the gaseous CO₂ is designed based on numerous experimental data obtained with regard to gas composition, separation efficiency, and solvent performance.

And the best message for our customers: Based on our process guarantees there is no risk for our customers when engaging GEA for a CC project.

Flexible plant capacity.

GEA CEBO Pilot

GEA CEBO 50 50 t/day CO₂ Capture capacity

GEA CEBO 150 150 t/day CO₂ Capture capacity

GEA CEBO 300 300 t/day CO₂ Capture capacity

GEA CEBO 600 600 t/day CO₂ Capture capacity



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