

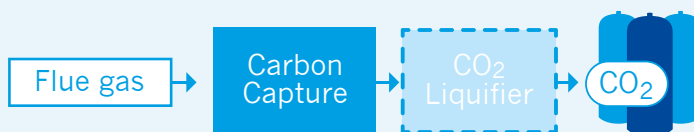
CARBON CAPTURE SYSTEM

Capture CO₂ from flue gases, easy integratable

Reduction of CO₂ emissions

Introducing our carbon capture system, a solution that not only combats climate change by reducing emissions, but also generates income through CO₂ sales, enabling the production of blue hydrogen, low carbon or even carbon-negative hydrogen. Compatible with all flue gas sources and economically viable even at low volumes, it ensures an energy-efficient supply method. With 24/7 remote service & monitoring, flexible contracting, and no need for a local operator, our system epitomizes ease of use. Our solution also features custom compression and storage solutions, underpinned by our extensive track record in sophisticated plant integration.

PROCESS



KEY BENEFITS

- Easy integration with hydrogen generation and liquefaction system
- No chemicals or heat required
- Low-maintenance sustainable solution
- Autonomous operation for a containerized system
- No trucking on-site
- Turn-key solution
 - Single communication point
 - Fast response
 - In-house design & expertise
 - Low complexity
- Extensive plant integration experience

CARBON (CO₂) CAPTURE SPECIFICATIONS

SYSTEM SPECS:

Max. flue gas volume

2,000 Nm³/hr
(1,250 SCFM)

Turn-down

10 - 100%

Total recovery

85%

Electrical consumption

0.15 kWh/kg
(0,07 kWh/lb)

Output pressure

0.1 bar(g)
(1.4 psi)

ON-SITE CO₂ PRODUCTION:

Food and Carbonated Drinks

Utilize CO₂ in the carbonation of beverages, or in food preservation.

Horticulture

In greenhouses, CO₂ is used to promote plant growth.

Dry Ice

CO₂ can be compressed and cooled to form dry ice for cooling purposes.

Enhanced Oil Recovery

Injecting CO₂ into oil wells can help in extracting more oil from the reservoir.

CHEMICAL & BIOLOGICAL:

Synthetic Fuels

Convert CO₂ into synthetic fuels such as methanol or diesel.

Organic Chemistry

In organic chemistry, CO₂ is used for the production of chemicals.

Polymers & Plastics

CO₂ can be used in the production of polymers and plastics.

Methanation

Captured CO₂ can be converted into methane, used for energy generation or as a raw material, through a process called methanation.



All data and values are indicative and based on nominal and non-frost conditions. Values might differ due to local circumstances and feedstock characteristics. Normal condition (Nm³) is defined at a temperature of 0°C and pressure of 1.013 bar(a). No rights can be obtained from this brochure. Numbers shown are indicative.