



**EPC** GROUP

WHO WE ARE



**>1,000**  
Projects



**> 300**  
Engineers & Specialists



**> 140 Years**  
of Experience

✓ CRYOTEC Anlagenbau GmbH was founded in 1995 and is part of the EPC Group since 2009. The company, which is specialized in technical gases, is based in Wurzen, Saxony. CRYOTEC has about 2,000 m² of production area and more than 5,000 m² storage space for the implementation of its worldwide projects.

✓ CRYOTEC Anlagenbau GmbH is a specialist for cryogenic and technical gases such as LIN, LOX, GOX; GN; medical oxygen, Ar, He, CO<sub>2</sub>, LNG and CNG.

A Member of **EPC** GROUP

**CRYOTEC**  
Anlagenbau GmbH

- Cryogenic Systems
- Systems for Compression & Liquefaction of Gases
- Small Scale LNG Systems
- Air Separation Systems
- CO<sub>2</sub> Technologies
- Special Applications for Technical Gases

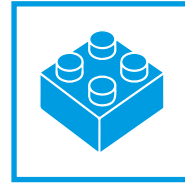
**EPC**  
ENGINEERING & TECHNOLOGIES

**HAUPTECKE**

- Polymers & Fibers
- Chemistry & Specialty Chemistry
- Renewable Energies
- Biotechnologies
- Engineering Services & Infrastructure
- Pharmaceuticals & Fine Chemistry
- Construction Engineering
- Infrastructure
- Building & Civil Engineering
- Project Management
- Technical Building Equipment



SPECIALISTS IN TECHNICAL GASES



MODULAR SYSTEMS



PLANT CONSTRUCTION



AFTER SALES SERVICES

IDEAS INSIDE **EPC**



## CO<sub>2</sub> Technologies & Applications

Our portfolio for the chemical, power and food industry



### CONTACT

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### Dealing with Large Volumes and Low Operation Costs

CO<sub>2</sub> recovery, purification and / or liquefaction plants provide the most efficient way for availability of carbon dioxide for usage in breweries, chemical plants or dry ice production.



CRYOTEC Anlagenbau GmbH is certified per DIN EN ISO 9001

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IDEAS INSIDE **EPC**





## CO<sub>2</sub> Purification and / or Recovery

The most economical method of producing high-purity carbon dioxide

### Carbon Dioxide Sources

- Separation from industrial / fuel gases
- Separation from combustion gases of power plants, hydrogen production, synthesis gas production
- Upgrade and efficiency enhancement in industry
- Incinerators for associated gas for „Enhanced Oil Recovery“ applications in oil and gas exploration
- From natural sources
- From dry ice production process
- From fermentation process in breweries / distilleries
- Biogas upgrade for production of Biomethane (CO<sub>2</sub> removal)
- CO<sub>2</sub> for methanation process for syntetic natural gas production (SNG)

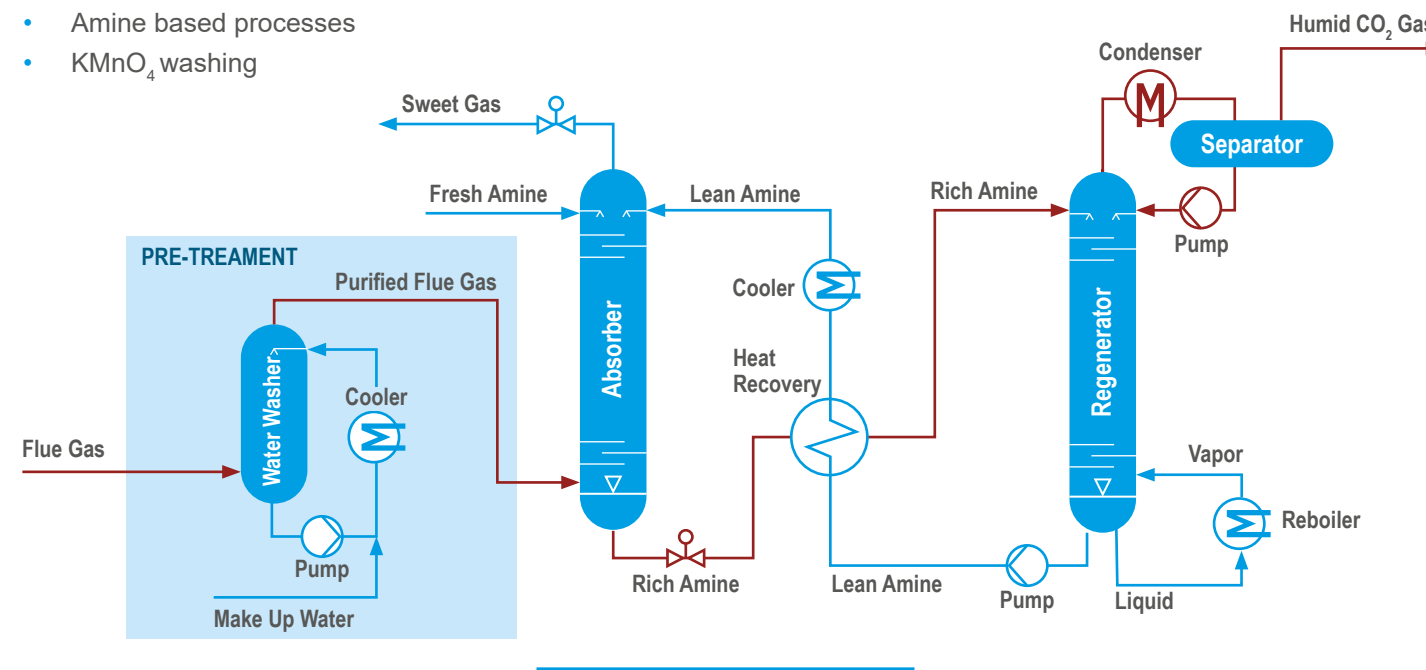
### Characteristics of our Plants

- Compact Installation
- Quality and functional check in CRYOTEC workshops
- Very short erection/commissioning time due to prefabricated units
- Application of well-proven equipment
- Efficient plant operation
- High product quality
- Competitive solution due to standardization



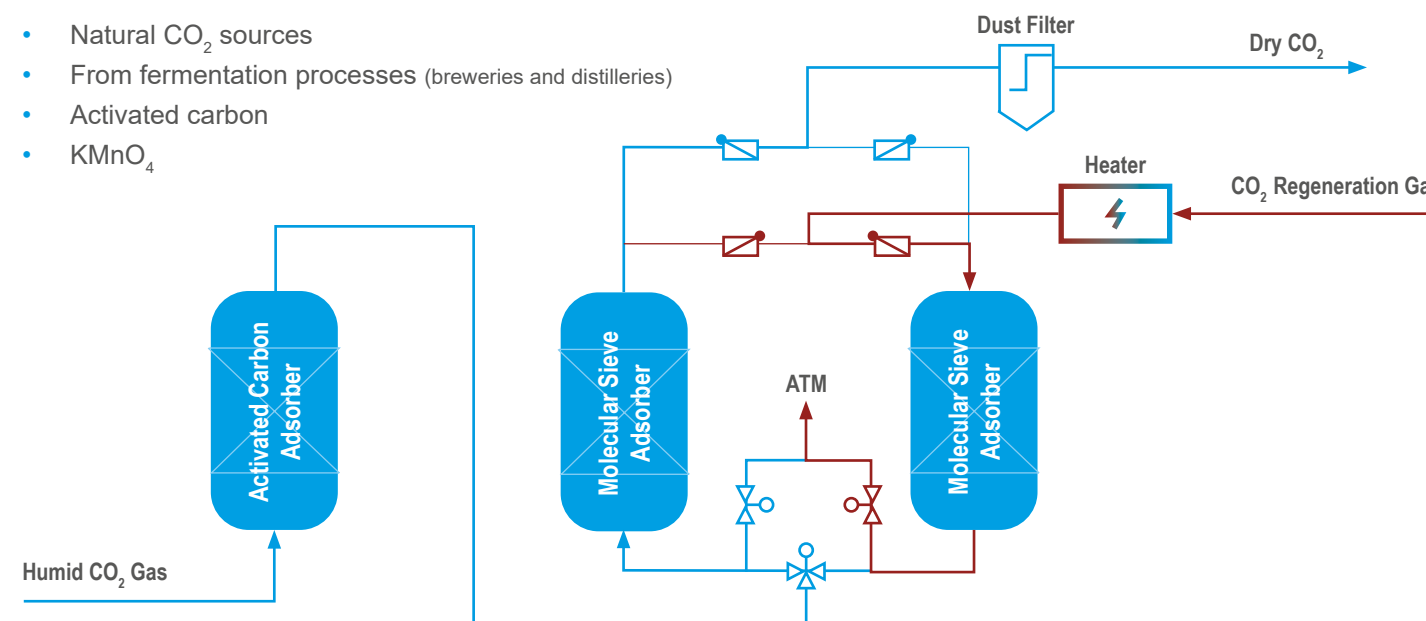
### Drying / Purification

- Industrial and chemical processes (combustion processes, hydrogen production / steam reforming or synthesis gas production)
- Amine based processes
- KMnO<sub>4</sub> washing



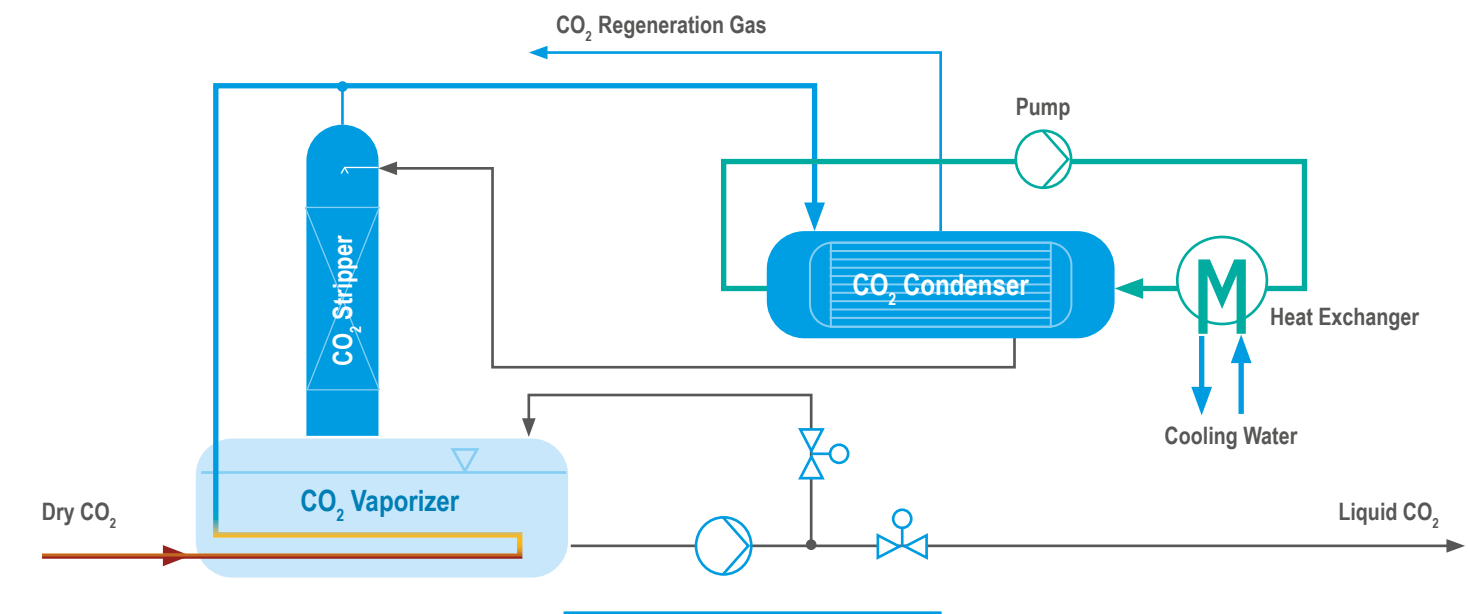
### CO<sub>2</sub> Drier and Purification Units

- Natural CO<sub>2</sub> sources
- From fermentation processes (breweries and distilleries)
- Activated carbon
- KMnO<sub>4</sub>



### CO<sub>2</sub> Liquefaction

- Dry Ice Production (recovery and re-liquefaction of gaseous CO<sub>2</sub> to generate a more efficient dry ice production process)



### Carbon Dioxide Applications

#### Food & Beverage Industry

- as soda for beverages
- for packaging of food under protective gas atmosphere
- for greenhouses, used as fertilizer for enhancement of production
- food and pharma grade quality acc. to European Industrial Gases Association (EIGA) standard or Coca-Cola standard

#### Other Applications

- for pneumatic conveying systems
- as extracting agent for essential oils
- as refrigerant agent
- and potable water technology, sea water desalination as solvent of minerals
- as shielding gas for welding
- for fire protection systems



YOU WOULD LIKE TO LEARN MORE ABOUT OUR TECHNOLOGIES AND SERVICES?

Contact us! We are looking forward to talking to you.



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Managing Director

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