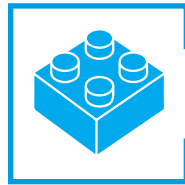




SPECIALISTS IN TECHNICAL GASES



MODULAR SYSTEMS



PLANT CONSTRUCTION



AFTER SALES SERVICES

IDEAS INSIDE^{EPC}



Liquid Nitrogen Plant - Mobile and transportable - for an independent on - site production in remote areas

CONTACT

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Experience and Understanding – Ideas for the future

CRYOTEC Anlagenbau GmbH offers extremely reliable and mobile cryogenic Air Separation Units. The systems are „Plug and Play“ solutions, fully automatic and can be installed in very short time, at any location worldwide.

This solution is first of its class.

A MEMBER OF
EPC GROUP



CRYOTEC Anlagenbau GmbH is certified per DIN EN ISO 9001

IDEAS INSIDE^{EPC}



Containerized LIN Plants

Efficient and easy to operate

Our Liquid Nitrogen (LIN) Production Units produce nitrogen with a purity of a least 99.999 % (max. 10 ppm(v) O₂). The LIN can be easily pumped to the final pressure required by the application with a LIN pump. No gas booster compressor is needed.

Our mobile plants are composed of two or three containers, to be interconnected with flexible hoses, which meet the technical requirements for road, sea or airborne transport. They require no other infrastructure at the site as a 400V electrical power supply.

The plant investment can be reduced by using existing or rented air compressors.

Our LIN plants are fully automatic, with the possibility of remote control and can be operational within 24 hours. They have a low power consumption and are designed for reduced maintenance.



CRYOTEC plants are “Made in Germany”, highly recommended and designed for a lifetime of over 20 years.

CRYOTEC standard plants are designed acc. To German DIN and European Codes & Standards, and operate at outside temperatures from - 20°C and +45°C.

PRODUCT DATA

Liquid Nitrogen (LIN):	up to 5 TPD or 170 Nm ³ /h
Nitrogen Purity:	≥ 99.999 % by vol (max. 10 ppm(v) O ₂)
Operating time:	8500 hours/year
Power Supply:	400V/ 50 or 60 Hz/ 3ph
Power consumption:	1,4 kW/Nm ³ LIN
Plot for plant layout mini.):	10 x 10 m

GENERAL DATA

Delivery time: 8 -12 months EXW Wurzen, Germany
Further requirements (not part of the Nitrogen plant):
• Electrical Power Pack
• ISO-Tank for storage of LIN
• LIN pump
Available against extra cost:
• Explosion proof execution
• Special Codes & Standards
• Offshore design

Highlights of our LIN Plants

Benefits

- Fully automatic Plant
- Start-up incl. performance tests, Customer’s operator training in Germany, before shipment
- Independent plant manufacturer – not related to industrial gases companies
- Excellent reputation with high performance and reliability plants
- Flexible to adapt the scope of supply to customers needs
- Remote operation of plant / support for trouble-shooting from head-office
- Delivery on-time without hidden cost-adders
- After sales and technical support services available from experienced staff

Applications

- Oil & Gas nitrogen applications like well start-up, fracturing, etc.
- Inertisation of hydrocarbon tanks or equipment during maintenance or repairs
- Pipeline pigging for paraffin removal or corrosion measurement
- Reactor cooling
- Soil freezing for tunnel or infrastructure installation
- High pressure applications of nitrogen without nitrogen gas compressor
- Small footprint for Offshore applications
- Many advantages vs. Membrane or PSA nitrogen generators



- Plant Engineering and Investment Preparation
- Design Based on Customers Request
- Process Design
- Certified Manufacturing
- Installation and Commissioning at the Customers Site
- Training and Support
- After Sales Services



CONTACT



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- Cryogenic Systems
- Systems for Compression & Liquefaction of Gases
- Small Scale LNG Systems
- Air Separation Systems
- CO₂ Technologies
- Special Applications for Technical Gases



- 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