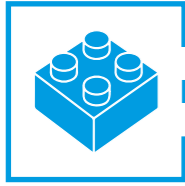




SPECIALISTS IN TECHNICAL GASES



MODULAR SYSTEMS



PLANT CONSTRUCTION



AFTER SALES SERVICES

IDEAS INSIDE ^{EPC}



Mobile LOX / LIN Plants

For Technical and Medical Applications



CONTACT

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Mobile Plants - For technical gases wherever you need them

You require technical or medical gases at several places? CRYOTEC Anlagenbau GmbH offers compact containerized LOX / LIN generation plants which are flexible and easy to transport by truck or aircraft. Our flexible „Plug + Play“ can be installed in very short time, at any location, even under extreme climatic conditions worldwide.





Containerized LOX / LIN Plants

Flexible and easily transportable

Based on our customers special requirements, CRYOTEC has developed a mobile LOX/LIN plant for production of liquid oxygen and nitrogen by low pressure cryogenic rectification process. The plant is installed in 2 x 20' containers and meets the technical requirements for the transport by aircraft.

These containers include the complete equipment that is needed for the cryogenic process: air compressor, air cooling and purification unit, cold box with cryogenic heat exchangers, rectification system, expansion turbine and LOX/LIN tanks.



Additionally, the plant can be equipped with LOX/LIN pumps, vaporizers and filling manifold for providing high pressure gaseous oxygen/nitrogen in cylinders.

For plant operation the cold box is set up by means of hydraulic system while it is folded down for transportation.

The electrical cabinet, the analyzers and the control system for automatic plant operation are stored in a divided part of one of the containers that is fully air-conditioned.



GENERAL DATA

Operating pressure, approx.:	10 bar g
Cylinder filling pressure approx.:	300 bar g
Power supply:	400 V, 3 ph, 50 Hz
Mean electrical consumption:	150 kW
Space required for arrangement:	9.0 m x 11.0 m
Total plant weight, approx.:	22 tons

PRODUCT DATA

Production Mode I

Liquid Oxygen (LOX): up to 15 Nm³/h *
Oxygen Purity: ≥ 99.5 % by vol.

Production Mode II

Liquid Nitrogen (LIN): up to 15 Nm³/h *
Nitrogen Purity: ≥ 99.99 % by vol.
(max. 100 ppm(v) O₂)

* depending on climate conditions

Highlights of our Mobile Plants

Unique selling proposition points

- ✓ Transportable, also by air freight
- ✓ High purity of the products (liquid oxygen, liquid nitrogen)
- ✓ High efficiency
- ✓ Low space requirement
- ✓ Final assembly by plug & play On-Site only power connection required
- ✓ Air-conditioned control room in the container
- ✓ Storage tanks included in the containers

Special features of mobile LOX plant

- ✓ Automatic hydraulic system for setting up of cold box
- ✓ Easy to start-up using the automatic production mode
- ✓ Compact, skid mounted and easy to maintain
- ✓ Production of LIN and LOX within one plant



- 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



- Building Automation
- E/I&C Technology
- Electrical Engineering & Telecommunications
- Ventilation & Air-Conditioning Systems
- Heating & Sanitary Systems