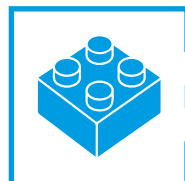




SPECIALISTS IN TECHNICAL GASES



MODULAR SYSTEMS



PLANT CONSTRUCTION



AFTER SALES SERVICES

IDEAS INSIDE<sup>EPC</sup>



**CRYOTEC**  
Anlagenbau GmbH



## Air Separation Plants

Solutions for high purity gases worldwide

### CONTACT

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**For high purity applications.**

Cryogenic air separation plants have proven themselves and been worth their value throughout the world for many years now. These systems are particularly suitable for the production of liquid and / or gaseous oxygen, nitrogen and argon. The precious products are gained from atmospheric air, based on a low-temperature rectification process. Thereby the substances are of high purity and find wide fields of application in medicine and industry.

A MEMBER OF  
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CRYOTEC Anlagenbau GmbH is certified per DIN EN ISO 9001

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# Air Separation Plants

## Standard and tailor-made

GASEOUS OXYGEN (GOX), NITROGEN (GN)

Tailor-made plants of models ONG

Standard models: **ONG** 1,000 / 2,000 / 5,000 / 10,000

Product	Product Output*	Product Purity
GOX	150 - 5,000 Nm³/h	99.5 - 99.7 % by vol.
GN	300 - 20,000 Nm³/h	up to 1 ppm (v) O <sub>2</sub>

\*\*Argon production is possible from 500 Nm³/h Oxygen / Nitrogen production

During the production of gaseous Oxygen or Nitrogen, certain amounts of liquid products (LOX, LIN) can be produced simultaneously.

LIQUID OXYGEN (LOX), NITROGEN (LIN), ARGON (LAR)

Standard and tailor-made plants of models ONL and OANL

Standard models: **ONL** 10 / 50 / 150 / 500 / 1,000 / 2,000  
**OANL** 500 / 1,000

Product	Product Output*	Product Purity
LOX	10 - 2,000 Nm³/h	99.5 - 99.7 % by vol.
LIN	15 - 3,000 Nm³/h	up to 1 ppm (v) O <sub>2</sub>
LAR	15 - 50 Nm³/h **	up to 5 ppm (v) O <sub>2</sub>

\*\*Argon production is possible from 500 Nm³/h Oxygen / Nitrogen production

HIGH PURITY NITROGEN

Standard and tailor-made plants

Standard models: **NG** 450 / 600 / 1,000 / 1,500 / 1,800  
2,300 / 7,000

Product	Product Output*	Product Purity
GN	300 - 20,000 Nm³/h	up to 1 ppm (v) O <sub>2</sub> in N <sub>2</sub>

**Product Pressure\***  
6 - 8 bar/g

All GN plants can be produce liquid nitrogen (LIN) simultaneously for backup purposes.

CHARACTERISTICS

- Quality and functional check in CRYOTEC workshop *(depending on the plant size)*
- Very short erection / commissioning time due to ready piped and wired plant skids
- Application of trusted and well-proven equipment
- Efficient and reliable plant operation
- Competitive solution due to standardization
- High quality by applying a quality management system according to ISO 9001 standard
- Designed for a lifetime of over 20 years

*\* Other product capacities and pressures on request*

## Additional Equipment

- Pipeline service / compressors, for increasing the production pressure up to the specific requirements of the customer
- Liquefied gas tanks for storage of liquid products
- Liquefied gas pumps, vaporizers
- Cylinders filling manifolds

## Specials

- Automatic process control by PLC guarantees highest plant availability and safety
- Plant design possible for ambient temperatures from -40°C (-40°F) to over +50°C (122°F) possible
- Plants tailored to the specific needs of the customer
- Full service in all project phases: planning, design, manufacturing, delivery, supervision, commissioning and start-up of the plant
- Long-term customer service and assistance

## High Plant Safety

- High reliability due to high plant safety and long-term experience in process design, plant engineering and construction
- Design according to latest safety standards of the oil and gas industry

## HIGHLIGHTS OF MOBILE LOX / LIN PLANTS

- Compact - fully containerized
- Performance test and operator training at CRYOTEC's own workshop
- Plug & play, ready to usefully automatic plant
- Easy to install - reduced infrastructure required at site



## CONTACT



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- 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



- 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