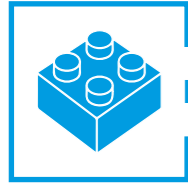




SPECIALISTS IN TECHNICAL GASES



MODULAR SYSTEMS



PLANT CONSTRUCTION



AFTER SALES SERVICES

IDEAS INSIDE ^{EPC}



Air Separation Plants

Solutions for highest purity worldwide

CONTACT

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For purest 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.



CRYOTEC Anlagenbau GmbH is certified per DIN EN ISO 9001

IDEAS INSIDE ^{EPC}



Air Separation Plants

Standard and tailor-made

GASEOUS OXYGEN (GOX), NITROGEN (GN), ARGON (GAR)

Standard and tailor-made plants of models ONG and OANG

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

Product	Product Output*	Product Purity
GOX	150 - 10,000 Nm ³ /h	99.5 - 99.7 % by vol.
GN	300 - 20,000 Nm ³ /h	up to 1 ppm (v) O ₂
GAR	12 - 240 Nm ³ /h **	up to 5 ppm (v) O ₂

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

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

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

Standard and tailor-made plants of models ONL and OANL

Standard models: **ONL** 100 / 200 / 500 / 1,000 / 2,000 / 5,000
OANL 500 / 1,000

Product	Product Output*	Product Purity
LOX	100 - 5,000 Nm ³ /h	99.5 - 99.7 % by vol.
LIN	100 - 5,000 Nm ³ /h	up to 1 ppm (v) O ₂
LAR	15 - 30 Nm ³ /h **	up to 5 ppm (v) O ₂

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

HIGH PURITY NITROGEN

Standard and tailor-made plants

Standard models: **NG** 300 / 500 / 1,000 / 2,000 / 3,000
5,000 / 7,000 / 10,000 / 15,000

Product	Product Output*	Product Purity
GN	300 - 15,000 Nm ³ /h	up to 1 ppm (v) O ₂ in N ₂

Product Pressure*
6 - 8 bar/g

Certain amounts of liquid nitrogen (LIN) can be produced simultaneously.

CHARACTERISTICS

- Quality and functional check in CRYOTEC workshops (*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 plant operation
- Competitive solution due to standardization
- High quality by applying a quality management system according to ISO 9001 standard

* *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
- Liquid gas tanks for storage of liquid products
- Liquid gas pumps, vaporizers
- Cylinders filling manifolds

Specials

- Automatic process control by PLC guarantees highest plant availability and safety
- Air cooling at ambient temperatures up to +50°C (122°F) possible and water cooling at ambient temperature up to +60°C (140°F)
- 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 LOX / LIN / LAR PLANTS

- Compact design (*skid mounted or containerized*)
- Quality and functional check in CRYOTEC's own workshop
- High efficiency in plant operation
- Very short erection / commissioning time due to prefabricated and tested plant units



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