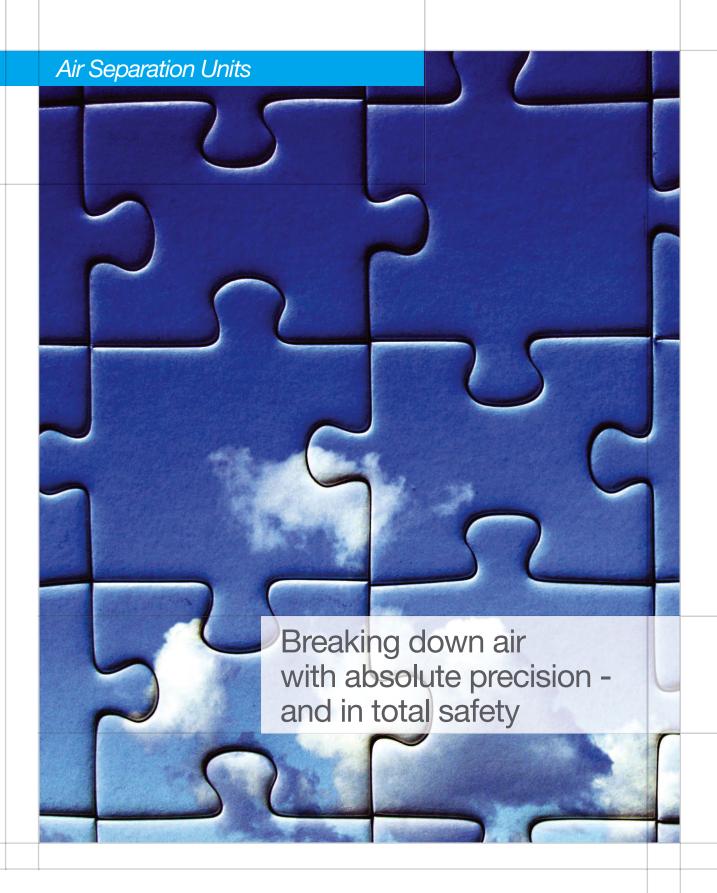




www.newtekcryogenic.com



Air Separation units (ASU) for producing Oxygen, Nitrogen and Argon

NEWTEK INDUSTY supplies Air Separation
Units to the highest quality standards for the liquid or gaseous production of industrial gases using the cryogen process with tray or packing technology.

Guaranteed continuous supply of oxygen, nitrogen and argon of the highest purity.

NEWTEK INDUSTY has developed its own design for selecting and sizing the most flexible equipment and technical solutions. Our strong point is our ability to coordinate our client's requirements with the company's long-standing experience, thus enabling us to provide tailor-made designs based on constant follow-up of project development.

This is also made possible by our versatile, expert design team and our network of selected collaborators worldwide

Technical characteristics

Air Separation units (ASU) with cryogenic technology for producing industrial gases in liquid and gaseous forms..

Services

- Engineering, feasibility studies;
- supervised commissioning;
- erection, start up and performance test;
- remote control.

Oxygen Nitrogen Argo	gen Nitrogen Argon ASU	
Capacity	- Oxygen from 500 Nm³/h to 80 000 Nm³/h (17 - 2 750 TPD) - Nitrogen from 1 500 Nm³/h to 240 000 Nm³/h (45 - 7 200 TPD) - Argon recovery 92%	
Purity	- Oxygen 99.95% and beyond - Nitrogen < 1 ppm $\rm O_2$ - Argon < 1 ppm $\rm O_2$	

Oxygen Nitrogen ASU		
Capacity	- Oxygen from 500 Nm³/h to 80 000 Nm³/h (17 - 2 750 TPD) - Nitrogen from 1 500 Nm³/h to 240 000 Nm³/h (45 - 7 200 TPD)	
Purity	- Oxygen 99.9% and beyond - Nitrogen < 1 ppm O ₂	

Nitrogen ASU	
Capacity	- Nitrogen from 250 Nm³/h to 50 000 Nm³/h (8.5 - 1 500 TPD)
Purity	- Nitrogen < 1 ppm O ₂

OxySTEEL, OxyCEM	ENT, OxyPAPER
Capacity	- Oxygen from 800 Nm³/h to 16 000 Nm³/h (27 - 540 TPD) - Nitrogen can be supplied on request
Purity	- 95% for gaseous O ₂ - 99.5% for liquid O ₂ - 99.9% for gaseous N ₂

Smart Liquid Plant	
Capacity	- Liquid Oxygen from 330 Nm³/h to 2 500 Nm³/h (12 - 90 TPD) - Liquid Nitrogen from 600 Nm³/h to 3 000 Nm³/h (19 - 98 TPD)
Purity	- Oxygen 99.6% - Nitrogen 99.999%





Equipment design features

Air separation method

Plants perform cryogenic air separation, i.e. low temperature rectification.

Characteristics of this method:

- high purity products;
- high recovery ratio;
- low power consumption;
- production of products in gaseous and liquid forms;
- simultaneous production of more than one product;
- multi-duty operation.

www.newtekgas.com Materials and components

In plant construction, only high quality and durable materials and components are used. Cryogenic parts and equipment inside distillation columns are isolated with special insulation to minimize heat loss.

Know-how and innovation

NEWTEK INDUSTY uses its own know-how for the innovative cryogenic plant design. Top priorities: research and development, continuous improvement in effi ciency and up-dating technology.





Complete compliance with local and or international standards. Tailor-made solutions to meet all production requirements.



Automatic control system

Advanced PLC based automation:

- providing maximum effectiveness of the plant (optimization);
- automatic monitoring of normal operation mode (without operator supervision);
- automatic data logging (archives for diagnostics);
- guarantees safety and reliability of the equipment;
- tele-control of the plants from producer's side.



Plants are shipped in modular section for easy and low cost installation. The equipment is installed as enlarged modules, which are then connected during installation on site with the minimum number of interfaces on pre-fabricated foundations. As a consequence, there is a reduction in the cost of installing and commissioning. An option is available for commissioning test, start-up and performance test, performed on site under the careful supervision and responsibility of NEWTEK INDUSTY's expert site engineers.



Applications

The professionalism and know-how of NEWTEK INDUSTY's technical staff is at the disposal of clients every day, in order to respond successfully to their requirements.

The company offers a complete range of plant, satisfying the most sophisticated demands, and continues to develop new and more efficientsolutionsfortheapplication of technologies involving different industries.

- Cement
- Chemical
- Energy and Power Generation
- Exploration and Production
- Food & Beverage
- Gas Industry
- Glass
- Metal Production
- Petrochemical
- Pulp and Paper
- Refinery

