





Universal Industrial Gases, Inc.

Universal Industrial Gases, Inc. is a Pennsylvania-based industrial gases company founded in 1992. The company supplies new and reconditioned / upgraded industrial gas production plants and related equipment world-wide. UIG also provides clients with associated industrial gas plant engineering, installation, operation and maintenance services.

An affiliate, **Universal Cryo Gas, LLC (UCG)**, owns and operates gas and liquid production plants which provide industrial gas products to users through short pipelines. In addition to gaseous products, UCG plants can produce liquid nitrogen, oxygen, and argon to back-up on-site gas production operations and supply cryogenic liquid products to the local market.

Products and Services

Cryogenic Air Separation Plants producing nitrogen, oxygen, and argon as gases and liquids

Carbon Dioxide Plants to recover, purify and liquefy CO₂

Liquefied Industrial Gas Storage and Vaporization Equipment

Plant Operations and Maintenance

On-site Production of Gases and Liquids

Industries Served

Refining and Petrochemicals: Oxygen for controlled and enhanced combustion and environmental uses. Nitrogen for line purging, tank purging, inerting and blanketing.

Natural Gas Producers: Liquid nitrogen for fracturing of tight gas formations, including NGC/ CBM

CO₂ Producers: Carbon Dioxide recovery from natural sources, hydrogen plants, ethanol plants and "green technology" oxy-fuel combustion of waste products

Oil and Gas Field Service Companies: Liquid nitrogen and/ or liquid carbon dioxide used for fracturing, pressurization and advanced recovery applications

General Industry: Large volume users of oxygen and nitrogen

Contacts

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Cryogenic Air Separation Plants for Nitrogen, Oxygen and Argon

Universal Industrial Gases designs, manufactures, supplies and installs cryogenic **air separation plants** producing high-purity nitrogen, oxygen and argon. Single-product cryogenic **oxygen plants** and **nitrogen plants** are also available.

UIG can supply air separation unit (**ASU**) and **liquefier** combinations which produce liquid nitrogen, oxygen, and argon for distribution to remote locations and bulk liquid customers. By integrating appropriately sized ASU and liquefier units, UIG-supplied plants can produce nitrogen and oxygen products at any specified combination gas and liquid production rates.



Typical Plant Production Capacities

Plant Type	STPD	MTPD	SCFH	MMSCF/ Mo	Nm ³ /hr	Nm ³ / Month
O₂ from ASU	100 - 750	90 - 700	100,000–750,000	75 - 550	2650 – 20,000	2,000,000 - 15,000,000
N₂ from ASU	100 - 2000	90 - 1800	115,000–2,300,000	84 - 1700	3000 – 60,500	2,200,000 - 44,000,000
Argon <small>from O₂/ ASU Plts</small>	3 - 35	3 - 32	2400 - 28,000	1.8 - 20	65 - 750	46,000 - 550,000
LOX / LIN Bulk Liquid	100 - 800	90 - 720	110,000 - 920,000	83 - 770	3000 - 24,000	2,200,000 - 17,600,000
Nitrogen Plt <small>(Cryogenic cycle)</small>	33 - 170	30 - 160	38,000 – 200,000	28 - 150	1000 - 1,000	730,000 - 3,800,000
Oxygen Plt <small>(Cryogenic cycle)</small>	50 - 100	45 - 90	50,000 – 100,000	38 - 550	1300 – 2650	1,000,000 - 2,000,000

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