





**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 CO<sub>2</sub>

**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

**CO<sub>2</sub> 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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#### Website

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

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