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## PRODUCTS OR MACHINERY

### Oxy-fuel combustion

With over 200 oxy-fuel glass furnace installations in all glass segments, Praxair is a leader in oxy-fuel combustion technologies for the glass industry. These technologies include Praxair's newly commercialized OPTIMELT™ thermochemical regenerator system, which can reduce natural gas and oxygen consumption of oxy-fuel glass furnaces by about 16 to 20%; advanced oxy-fuel burners for glass furnaces which offer wide flame coverage, low volatilization, high flame luminosity, optimum heat transfer efficiency and NOx emissions performance; and advanced air separation plants for reliable oxygen production and supply.

### OPTIMELT Thermochemical Regenerator System

Praxair's new OPTIMELT™ thermochemical regenerator heat recovery system is a compelling low-cost solution to maximize the heat recovery from glass furnaces, improve energy efficiency of the furnaces, and minimize furnace emissions. The OPTIMELT system delivers these benefits using regenerators similar to conventional air-regenerators to combine the conventional preheating step with a chemical reforming process. In the reforming step, a mixture of natural gas and recirculated flue gas react endothermically in the hot regenerator checker pack to produce a hot syngas stream which is combusted in the furnace with oxygen. This combined preheating and reforming process results in a net reduction of natural gas and oxygen of about 20% to 30%, compared to conventional oxy-fuel and regenerative air-fuel furnaces, respectively.

## COMPANY BACKGROUND / HISTORY

Praxair, Inc., a Fortune 250 company with 2014 sales of \$12.3 billion, is one of the largest industrial gases companies worldwide. The company produces, sells and distributes atmospheric, process and specialty, and high-performance surface coatings. Praxair products, and technologies are making our planet more productive by bringing efficiency and environmental benefits to a wide variety of industries, including manufacturing, primary metals and many others.

**Products:**

Industrial gases – Atmospheric gases (oxygen, nitrogen, argon and rare gases).  
Process gases (carbon dioxide, helium, hydrogen, electronic gases, specialty gases and acetylene).  
Surface coatings – Wear-resistant and high-temperature corrosion-resistant metallic and ceramic coatings and powders.

**Services:**

On-site gas handling and monitoring systems; supply-chain management; pipeline and plant services; utility management and co-generation; turnkey design and construction; inventory control.

**End Use Markets:**

Industrial gases – Aerospace, chemicals, electronics, energy, food and beverage, healthcare, manufacturing (including metal fabrication, glass, pulp and paper, water treatment), metals.  
Surface coatings – Aircraft, electronics, printing and textiles, chemicals, primary metals.

**Technology:**

Industrial gases – Introduced cryogenic air separation to U.S. industry in the early 1900's and led development of non-cryogenic supply systems. Continuing innovation in application technologies specific to particular industries.  
Surface coatings – Thermal spray coatings, including detonation gun, plasma, high-velocity oxy-fuel and diffusion processes. Anilox and hydrophilic roll surfaces. Thermal spray powder development and manufacturing.

**Global Capabilities:**

More than half of Praxair's sales are generated outside the U.S. through subsidiaries and regional companies.

Company Profile of **Praxair, Inc.**

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