

Specialty Gases and Equipment



Driving Success in University Laboratory Research

High quality products, optimized processes and ongoing innovation focused on your specialized needs.

Advantages:

- Expansive catalog of pure gases, mixtures and equipment
- Easy online ordering and e-commerce support
- Cylinder management and on-site service programs
- Lab assessment services

We're Ready to Satisfy Your Most Intricate Specifications

Praxair understands the seemingly limitless demands and possibilities encompassed within a university's science and research programs. We understand the challenges you face — that's why many top universities choose Praxair as their preferred source for specialty gases and gas handling equipment.

Scientists and researchers choose Praxair for our ability to provide tailored systems and protocols for gas ordering, delivery and storage that help them achieve their goals, while reducing costs, creating efficiencies and streamlining processes.

The Praxair Advantage

Broad Product Portfolio Readily Available

Praxair offers an expansive catalog of specialty, medical and industrial pure gases and mixtures, equipment and storage solutions.

Take helium, for instance. Praxair is one of the world's leading reliable helium suppliers, with global sourcing and logistics. Praxair holds more than 25 specific helium-related patents and taps a diversity of worldwide sources. With a comprehensive logistics system, Praxair's extensive specialty gas capabilities are characterized by

- Advanced technology gas blending, purification and packaging techniques
- A diverse array of cylinder types and sizes
- Multiple supply choices, ranging from microbulk and bulk to on-site supply

Why Top Tier Universities Choose Praxair

Reputation. Track record. Safety. Integrity. Innovation. Reliability. Global capacity.

Praxair is more than an established leader in the manufacturing and distribution of atmospheric, process and specialty gases and equipment – Praxair helps universities maximize their performance, safety and outcomes while helping to minimize environmental impact.

That's been our focus for more than 100 years.

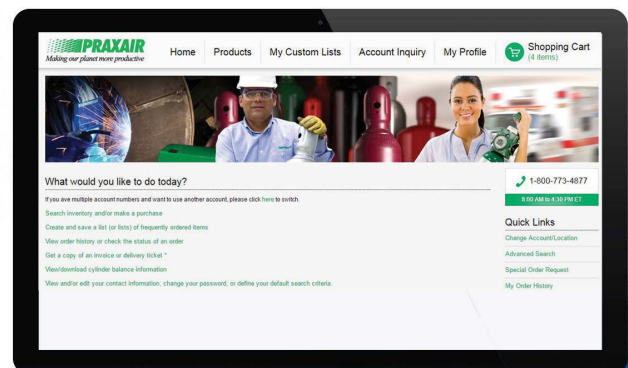
e-Commerce Support: Your System or Ours

No matter how simple or complicated your packaged gas and supply needs are, Praxair's online purchasing system can save you time and money, and can give you online ordering capabilities compatible with your contract status, IT system(s) and process requirements, affording:

- Improved order placement speed and accuracy
- Reduced need for manual data entry
- Virtual elimination of need for paper handling, faxing, phone calls and mailing

We support punchout and hosted catalogs on leading e-procurement portals, including SciQuest, Ariba®, Oracle® and others.

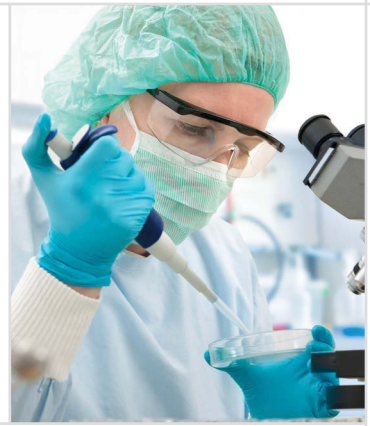
Or if your university does not have an e-procurement system in place, Praxair maintains our own e-commerce portal for you — *Praxair Express™*.



Laboratory Assessment Service

Put our knowledge and experience to work for you. Our knowledgeable team will work with your lab managers and scientists to review all aspects of their gas use, storage and handling procedures. Praxair will provide a customized recommendation to help you:

- Improve productivity
- Protect process consistency
- Ensure the proper use of appropriate product grades and certifications
- Improve asset management
- Reduce overall costs



On-site Services and Gas Management

Praxair's customer-focused, customized programs deliver results. We'll help you improve cylinder handling and give you access to on-site technical advice. If you choose, Praxair's dedicated site management services will manage your cylinder and gas-related assets for every user on your campus.

High Purity Gas Delivery Equipment

Don't jeopardize gas purity or gas blend integrity through the use of inferior gas handling equipment. Praxair's *ProSpec*™ high purity gas handling equipment includes a broad range of high purity regulators, flowmeters, manifolds, gas distribution panels, cabinets, cryogenic storage units and more, which can be configured to meet your specific equipment needs.

Praxair designs and manufactures gas handling equipment in-house using high quality components. If your laboratories are considering renovations or expansion, Praxair can design and implement a turnkey build-out to fit your needs.

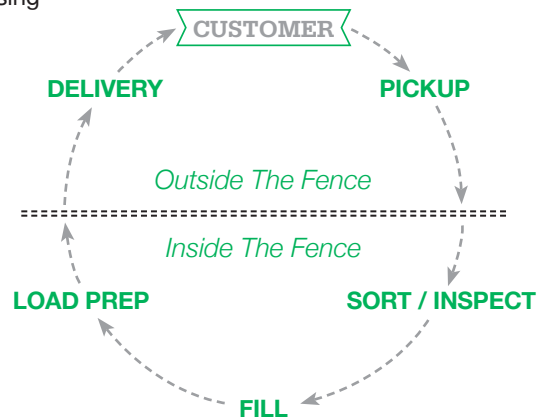
ProSpec
by Praxair



Cylinder Management Program

Praxair's *Sentry*™ Cylinder Tracking System can help you increase efficiency by automating the process of tracking and managing your specialty gas and liquid cylinders from production to delivery and return. Our *Sentry* program eliminates the need for traditional paper-based systems, increasing the accuracy of accounting for cylinder balances, deliveries and billing.

The Praxair *Sentry* system uses barcode scanning technology and follows a closed-loop, five-point tracking process to ensure accuracy at every step. Cylinders are tracked by serial number, so even if a barcode is corrupted or removed from a cylinder, the cylinder can still be accurately tracked.





Innovation in Packaging

Ongoing innovation is at the center of the Praxair mission of making our planet more productive. We work continuously to develop and bring new technology, products and services to market that will help customers do more with less and reduce their environmental impact.



- **StarEZ™ High Purity Valve**
 - Improved safety
 - Built-in active content gauge
 - No protective cap is required
 - Easy-to-use ON/OFF lever



- **StarWatch™ Liquid Container**
 - Application specific economizer for gas and liquid supply
 - Displays the supply level and pressure
 - Reduces the risk of product outage
 - Minimizes return of unused liquid
 - Alarms for low pressure and low liquid levels



PortaCYL®



RT-Series Compact Cylinders

- **PortaCYL® & RT-Series Compact Cylinders**
 - Returnable cylinders to minimize disposal costs
 - Integrated regulator-valve options for ease of use
 - Size varieties to match your requirements



- **Amplify™ High Capacity Cylinders**
 - Improved safety
 - Reduces cylinder orders and change-outs
 - Helps prevent the risk of running out: more gas in cylinder; more gas on-site
 - Decreases cylinder inventory, heel losses and the overall footprint of cylinder storage

Praxair: Global Reach, Local Presence

The Power of Proximity

As one of the largest industrial and specialty gas suppliers in the western hemisphere, Praxair has an extensive supply network. Our strategically located air separation plants and 400 locations throughout the United States and Canada help you and your labs stay productive and operate efficiently around the clock. Whether you need a local supplier or a national coordinator for supplies and replenishment, Praxair can help streamline your procurement process.

To learn more about how Praxair can help your university's labs, research and ongoing innovation



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