

DESIGN ASSISTANCE

FOR ARCHITECTS AND ENGINEERS

Gas delivery and cryogenic solutions for laboratory design



Designing a laboratory means making critical decisions. Deciding on the proper gases and cryogenic delivery and management systems is one of those decisions. From locating information to specifying purity levels to answering technical questions regarding gas specification, storage, safety, compliance, sourcing, monitoring and distribution, Airgas works alongside your design team to build the best gas delivery and management systems for your customers. Whether it's a new design or retrofit of an existing laboratory, we'll work hand in hand to help you create the proper system to ensure all laboratory processes work correctly and efficiently. Airgas will ensure your project exceeds your client's requirements for operational performance, safety and code conformance.

As the country's largest supplier of industrial, medical, and specialty gases and related equipment, safety supplies and MRO products and services, Airgas can assist in all aspects of your project and help identify improvements for even the most complex system. With more than 16,000 associates in approximately 1,100 locations nationwide, we have the right resources and the right expertise to meet your projects' requirements. From breaking ground to commissioning, Airgas is here to help.

Airgas
an Air Liquide company

Airgas.com

Finding the right fit.

Our experienced teams have the tools to assist with the design and installation of complete laboratory gas systems. As a provider of gases and services to the automotive, environmental, food and beverage, metallurgy and glass, chemicals and petrochemicals, electronics and semiconductor, pharmaceutical, biotechnology, medical, university research, and power utilities markets, we understand the specific requirements of different markets and have the skill to deliver the results they need.

We work directly with architects, engineering firms, design-to-build firms, MEP firms and general contractors, specializing in:

Laboratory Design — new construction or retrofit

- System guide for laboratory gases and cryogenics
- Turn-key laboratory piping design and installation solutions
- CAD drawing support — individual equipment and project specific layouts
- Coordinated and cooperative project management

Gas Management Systems

- Specialty gases, process chemicals, and industrial applications
- Flammable, toxic, corrosive, high-purity, high-pressure, and high-flow systems
- Fully automated gas cabinets and safety systems
- Gas detection and monitoring support systems

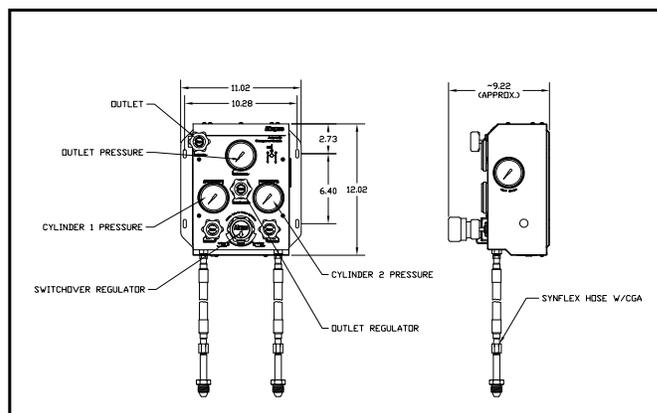
Custom Gas Delivery Systems

- Automated gas control systems
- High pressure system design
- Gas mixing systems
- Unique application solutions

Cryogenic Management and Design

- Bulk cryogenic storage and delivery solutions
- Robust gas delivery systems, on-site separation units, generators, tube trailers
- On-site and off-site cryorepositories; *OUTLOOK*[®] inventory management solutions
- Vacuum-insulated piping for Liquid Nitrogen
- Remote monitoring and alarm systems

Airgas complements your business unit and maximizes end user satisfaction by helping you find the perfect fit to bring your gas delivery system from concepts to reality.



Partnering for the right solutions.

Airgas partners with you from start to finish on your laboratory construction project. We'll help you customize the right solutions for your design.

Airgas offers many services to assist architect/engineering firms involved with specialty gas system design, including:

- Facility/laboratory gas distribution layout
- Risk-based central gas supply consulting and design
- Detailed specialty gas equipment needs assessment
- Material selection — equipment and piping
- Equipment and container sizing
- Safety consulting and safety management review

You'll find it with us...

Airgas stays involved in your project through completion, working with the general and sub-contractors to offer continuing support for any technical questions that may arise about gas system components and cryogenic systems. We're here to field questions, concerns and issues that delay construction projects. We work with the end users of the laboratory to help with operational and safety training of the systems. Airgas understands that the gas delivery system is a small part of a project, but we know that it's a key element in the success of a construction project. Your lab construction project's success depends on the results it will deliver. Airgas can help your analytical instrumentation perform at the highest purity possible.

Find out why more architects and engineers are turning to Airgas for help with laboratory gas system design and installation.

Call **314-488-8079** or email A&E@airgas.com today. Request your copy of the **A&E Systems Guide for Laboratory Gases and Cryogenics**.

