

Solutions for Indoor Farming

Create an environment where your crops thrive



- Increase yields with CO₂ enrichment to generate stable, quality crops
- Gas handling equipment, turnkey systems and installation support
- Custom-designed operational solutions to address unique needs
- Expertise to assist through the planning, approval, startup and production phases
- Safety supplies including gas monitors and Personal Protective Equipment

Increase yields. Improve quality.

High quality, high-yield production is the top priority for any indoor farming operation. Creating the perfect environment to achieve this is just as important. From choosing the right equipment to determining optimal levels of CO₂ to sustain your crops, Airgas, an Air Liquide company, helps you get the best quality yield. Our engineers partner with you to plan to get the most out of your crops long before germination and cloning. We'll also work with your local officials to get started, keeping safety and reliability at the forefront of everything you do.

Whether you're a small, local operation or an expanding company with multiple farming locations across the country, Airgas has the products, services and expertise to support your growing business. Our personalized, local service is backed by strong national resources with more than 1,100 locations nationwide. No matter where you are and how you're growing, we can find the right solution for you.

Enrich your crops with CO₂

Proper CO₂ levels play a big role in assuring a perfect environment for stable plant growth. Airgas is a single-source supplier for all your CO₂ enrichment needs with availability in multiple supply modes, including cylinders, dewars, MicroBulk and bulk. Additionally, our engineers have developed a line of CO₂ enrichment flow panels to help supply optimum levels of CO₂ in each growing area while keeping your workers safe. With everything from regulators to full turnkey systems and custom-designed options, we can meet the needs of any indoor farming operation, no matter the size.

Airgas CO₂ enrichment flow panels are designed with the flexibility to work with your horticulture system and provide growing areas with:

- Dedicated adjustable flow control valve for flow adaptability
- Electronic control valve for CO₂ on/off control
- Ease of setting and adjustment to optimize growth

Mean percentage yield increase produced by a 700 ppm atmospheric CO₂ concentration

Vegetable Crops	%	C ₃ Crops	%
Cauliflower	34	Barley	66
Green Chillies & Peppers	25	Rapeseed	62
Cucumbers	39	Rice	37
Lettuce	40	Sunflower	36
Tomatoes	20	Wheat	43
Average	31.6	Average	48.8

Idso, C.D. and Idso, K.E. 2000. Forecasting world food supplies: The impact of the rising atmospheric CO₂ concentration. *Technology 7S*: 33-35.



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CO₂ enrichment flow panel

Airgas helps you bring it all together

Identifying the materials you need to start your operation, establishing your process and keeping it all going are just a few pieces of the puzzle. Having the support of a supplier who can help bring it together is another matter. Turn to Airgas to leverage our expertise as a leading supplier to the indoor farming industry. Our engineers will guide you through the planning process and help you carefully select equipment, gases and other products that maximize your growing potential.

Our engineering and equipment group offers assistance with:

- Creating CO₂ layout drawings for AHJ (Authority Having Jurisdiction) approval and piping quotes
- Choosing a CO₂ safety system to meet local and national fire codes
- Selecting the right CO₂ enrichment flow panel – turnkey and custom options available
- Determining CO₂ consumption rates and optimizing usage
- Integrating equipment and system controls with other process controls
- And much more

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