

The Good Gas Guide

Leisure & hospitality gas solutions



Welcome to Air Products

Leisure & hospitality gases

From the smallest pub, to large multifaceted entertainment premises, we have the expertise and capability to deliver gas systems including cylinders, tanks and nitrogen generators and to support you in the safe handling of food grade gases.

The role of gas in drinks dispense	4
Traceability, safety & quality	6
Gas safety	7
Supply options	8
What's the right size for you	12
Supporting your business	14
Contact us	15

helping you to deliver
quality drinks
for over 60 years



Quality gas is part of the good drinks dispense experience

Food grade gases can help you to deliver a great product to your customers, and it's important to understand how to make the most of your gas supply. Gas gives drinks that distinctive 'fizz' as well as propelling the liquid from the keg. Carbon Dioxide (CO₂) also works to keep the keg contents sterile and free from harmful bacteria. The correct gas mixture and pressure help to maintain the equilibrium in the keg and ensures the most efficient use of the dispense system. Typical uses for beverage gases include:

- CO₂ for soft drinks and lagers
- Various gas mixtures for premium lagers, ciders, stouts and smoothflow bitters

Have you got the right gas mix to achieve your desired product results?

The proper mix of food grade gases can enhance the presentation of your drinks, affect both foaming and haze, and have an impact on quality. Getting the mix right can even result in less drinks waste, serving up more bottom-line profit!

Generally, there are three mixed gas types used in the UK market, depending upon the type of beverage being dispensed. Your supplier can recommend the correct gas to make the most of each of your products. Air Products offer the following mixes:

- 30/70 - containing 30% CO₂ and 70% N₂
- 50/50 - containing 50% CO₂ and 50% N₂
- 60/40 - containing 60% CO₂ and 40% N₂

Gases are able to give beer a creamier, longer-lasting head, reduce foaming, allow faster dispensing and even in some cases, extend the life of slower moving draught beers. Speak to your supplier for tips and recommendations.



Are you ordering food grade gases vs industrial grade gas?

Industrial gases are used in a wide range of manufacturing processes, but when using gases for drinks dispensing, it's important to use food grade to keep the public safe from microbial spoilage. Reputable suppliers will only sell cylinders which are labelled correctly with the product and a food traceability label to ensure that premises don't fall breach of the food regulations standards. Poor quality gases from non-reputable suppliers can also affect the taste of beers - one cylinder of bad dispense gas can ruin up to 10 kegs of beer and could put you at risk for prosecution for being in breach of health and safety regulations. Poor or damaged cylinders can also pose safety threats by contamination or corrosion, which could cause the cylinder to explode or to leak. Only accept food grade gases from a reputable supplier.

Top tip - Don't fall prey to cheap 'beverage' gas which could lead to:

- One cylinder of bad dispense gas could ruin up to 10 kegs of beer
- Lost customers through poor beer quality
- Refused compensation claims from suppliers
- At risk of prosecution for being in breach of health & safety and/or food regulation laws



better gas,
better drinks



Safety is our number one priority

Traceability, safety and quality assurance

To provide peace of mind and a fully traceable process, our gas comes with a certificate of conformity and Cylinder Tracking Number (CTN) to allow us to track the cylinder to its place or origin. Additionally, our cylinders arrive with a tamper proof, shrink wrap system on all cylinders and valves. All cylinders are fitted with residual pressure valve for superior hygiene and robustness.

Quality Pledge

Through a strict regime of internally and externally audited management systems, our gases meet and often exceed national and EU requirements for food quality, hygiene and traceability.

To provide peace of mind, all of Air Products' European operating groups are certified to ISO 9001:2015 which includes a documented HACCP ensuring that there are enough critical control points in the production and distribution process to avoid contamination of gases.

Top Tip for identifying a good food grade cylinder

Cylinder will be clean and tidy, with the product clearly labelled with the contents, food grade assurance, supplier's phone number and include a hazard warning.



Safety is our number one priority. Full stop.

As members of the British Compressed Gases Association (BCGA), we have a duty of care to our customers to promote safety in the use, storage, transportation and handling of industrial, food and medical gases. We are committed to helping you and your staff to safely manage your gas system. Our cylinders and tanks are regularly inspected for technical faults, safety and gas leaks, and we are available for technical support and training. For more advice, follow the guidance from the British Compressed Gases Association, on BCGA GN 30, The Safe Use of Gases in the Beverage Dispense Industry. http://www.bcgga.co.uk/pages/index.cfm?page_id=84&title=beverage_gases

Top tips for keeping your site safe

- Ensure all your gas equipment is correctly installed and regularly maintained.
- Know what gases you have and how to work with them safely.
- Understand the correct way to changeover a gas cylinder.
- Regulators, pressure systems and safety relief valves need to be evaluated periodically and proper ventilation is a must when using gases.
- Is there a safe and secure site for the storage of the gas cylinders or tank?
- Are your staff adequately trained in cellar safety, how to avoid injury from lifting heavy cylinders and the importance of ventilation and monitoring?

Staff training

As part of our relationship with you, we provide gas system training to get you and your team up to speed. More extensive or bespoke training and risk assessments are available at a nominal charge.

Supply options

From Carbostore tanks and nitrogen generators to cylinders, we have a gas solution to fit your outlet. Our technical team will work with you to determine what is the best option, based on your current and projected growth. We work with all sizes of hospitality businesses.

On-site nitrogen generation can be a sustainable solution for some outlets utilising mixed gases. Generators are a wall mounted equipment which takes nitrogen from the air that we breathe for use in mixed gases, with the ability to store and mix the gases on-site. It has the added benefit of reducing the number of cylinder deliveries and storage on site.

Carbostore & generator



Large cylinders & generator



fit & forget
gas delivery



Mode of supply can make a big difference

For outlets wishing to eliminate the need for heavy cylinders, time-consuming changeovers and gas orders, we offer the Fit & Forget Carbostore tank system. The system benefits from a remote fill point so that gas can be delivered without the need for on-site staff to accept the delivery and the manual handling of cylinders; saving time in change-overs, cellar space and providing the peace of mind that a securely monitored system can deliver. The system uses telemetry to monitor the gas levels so that you don't run out, you never pay for gas that you're not using and that deliveries can be handled seamlessly, through external fill points.

By installing a Carbostore system at your site, you can focus on front of house and serving customers. The service includes bespoke design/installation, proactive and reactive maintenance, CO2 monitoring and managed order fulfilment matched to your outlet's trading pattern.







bespoke *gas solutions*

Benefits of working with Air Products

We make every effort to ensure satisfactory delivery outcomes by utilising special escalated delivery procedures.

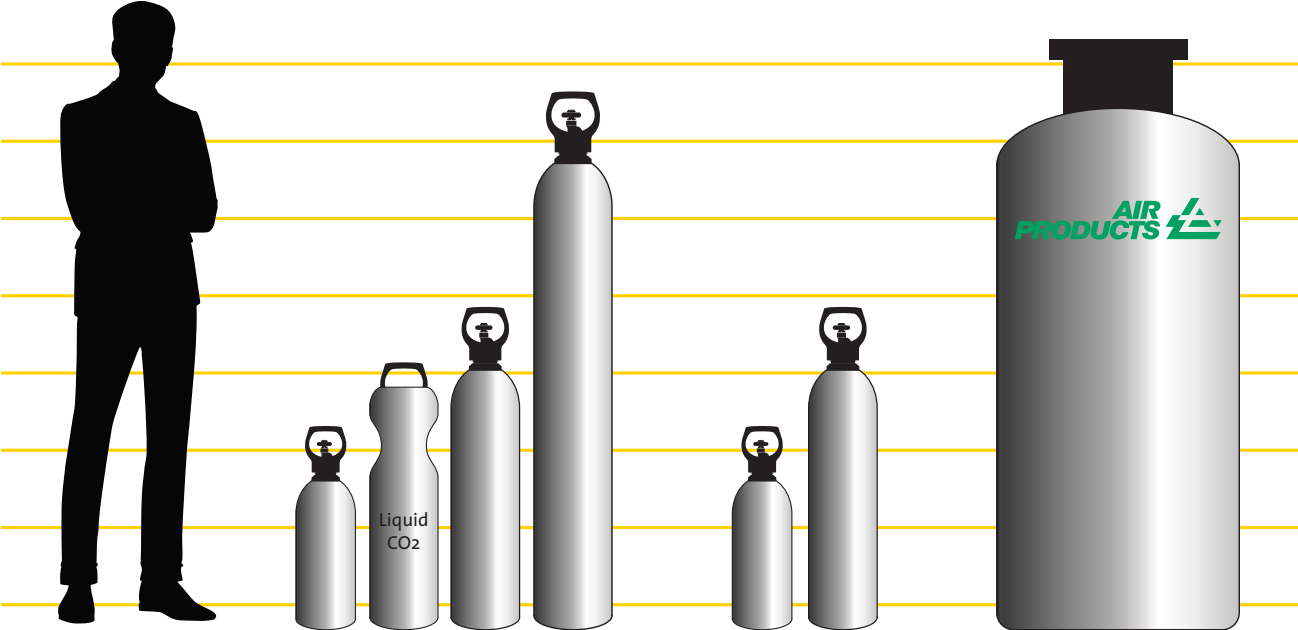
- Carbostore tanks filled via regular scheduled 'milk round' delivery
- Tank telemetry ensures you're got the right amount of gas at the right time
- Technical advice for dispense optimisation solutions

Helping you to choose the right supply option

Air Products offers cylinders in a range of sizes, in addition to two tank sizes to fit into any sized business. Our friendly team of experts can guide you to the best option. The table opposite can offer some guidelines.



What's right for me?



CO2 cylinders

Gas mix cylinders

CO2 Carbostore tank



Description	Capacity	Height	To carbonate up to 11 Gallon Kegs*	To Carbonate up to 10 Litre Syrup Boxes*
Medium Liquid CO2 cylinder Product code: 197422	6.35kg	810mm	10	8
SMALL CO2 cylinder Product code: 14752	7.92kg	655mm	12	10
MEDIUM CO2 cylinder Product code: 14753	24.75 kg	1050mm	38	30
LARGE CO2 cylinder Product code: 197424	50.6kg	1590mm	80	63
60 - 40 gas mix cylinder Product code: 197416	10ltr	655mm	10	N/A
60 - 40 gas mix cylinder Product code: 14751	30 ltr	1050mm	30	N/A
30 - 70 gas mix cylinder Product code: 197414	10ltr	655mm	10	N/A
30 -70 gas mix cylinder Product code: 14749	30 ltr	1050mm	30	N/A
CO2 CarboStore tank Product code: 38884	180 kg	1600mm	280	226
CO2 CarboStore tank Product code: 38884	270 kg	1650mm	420	339

*Estimated average





Balloons

Are you planning a special event? Did you know that we can also provide helium for balloons, in a range of cylinder sizes? We use advanced cylinder technology to fill lighter containers with up to 50% more helium than standard cylinders, meaning you don't need to hold as many cylinders and so pay less in handling costs. Our Balloonium® cylinders also save you money with their unique built-in regulator. Traditional inflator equipment is costly and needs servicing (BCGA guidance). We've built the expensive pressure regulating equipment into the cylinder head, so you only need to buy a low-cost inflator attachment.

Our Balloonium® cylinders are safer and easier to use and - with up to 50% more gas than traditional cylinders - they could save you time and money.

Swimming pools

If you have a swimming pool as part of your business, we offer integrated supply options utilising carbon dioxide for pH stabilisation.

Replacing hazardous chemicals with CO₂ for pH stabilisation in swimming pools delivers a range of benefits including an improved safety profile for staff and bathers, increased bather comfort, and a milder impact on the pool structure and the environment. In water, CO₂ forms a mild carbonic acid that also helps maintain alkalinity and reduce total dissolved solids. It forms a natural bicarbonate buffer which minimises peaks and troughs of pH.

- A superior safety and comfort profile for staff and bathers
- Safe to use. CO₂ is inert and requires no manual handling, reducing the potential of hazardous chemical interactions
- Self-managing solution delivers a consistent level of pH, eliminating peaks and troughs
- Lower environmental impact and a reduced level of total dissolved solids means less pool and plant corrosion



Brewing and drinks production

Our teams also supply the gases needed for brewing and drinks production, including pumping, purging, cleaning and increasing shelf life.

Air Products friendly team of technical experts can help

We've been delivering gas and solutions to UK hospitality businesses for over 60 years. We can discuss the benefits of different gas mixes, usage projections and the best modes of supply and can help you develop a system that delivers quality tasting products to your customers as well as helping you to meet the safety codes. Our fit & forget system is tailor-made to meet your specific cellar and safety needs with equipment to provide all your gas needs for drinks dispense and line cleaning.

Call 0800 389 0202 or email apukinfo@airproducts.com to arrange for a free site assessment.

Follow us on LinkedIn for more information and to stay in touch

<https://www.linkedin.com/showcase/air-products-leisure-hospitality-gases/>

Proud members of PWTAG, BFBI, Campden BRI, BCGA and suppliers to many of the national fast food restaurants, cinema chains, licenced trade and swimming pool operators.

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