

# SCIENCE AND INDUSTRY

## CARBONISATION AND BREWING

CryoService has many years experience in dealing with organisations within the brewing, soft drinks and carbonisation markets and understands the ever changing demands put upon these companies, be this in terms of operational efficiencies, minimising manual handling risks or the reduction in administration time for processing purchase orders associated to gases.

All of this has to be achieved without compromising on quality and safety, whilst best value is always obtained.

With this in mind CryoService has developed a product offering that can be tailored to specific user and organisation requirements.

### *Typical applications serviced include:*

- Carbonisation of bottled drinks, either soft or alcoholic
- Nitrogen topping/fobbing
- Wort production



## GASES



### Carbon Dioxide - Carbonisation

Where carbonisation of either soft or alcoholic drinks is required, CryoService has one of the most comprehensive packages available, and is one of the few organisations who have the ability to supply CO2 in mini-bulk form.

### *Features of this offering include:*

- Ability to fill either customer owned or CryoService rented storage vessels, varying in size from 120 up to 15,000kg capacity.
- Managed cycle delivery schedule, which minimises user involvement. CryoService monitor usage and automatically adjust deliveries accordingly.
- You only pay for what is used. Traditional carbon dioxide cylinders contain between 15 and 25% of their product when returned - CryoService charge only for the liquid that is delivered.

### Nitrogen - Topping / Fobbing

Nitrogen gas can be used in a number of ways to increase the shelf life of a liquid in its container, applications currently served are topping (fobbing), or for flushing and sterilising purposes. In all cases the nitrogen is used to protect against oxidation.

### *The benefits of the CryoService product offering include:*

- Highest purity grade of nitrogen available, 99.999%.
- No user input required in the re-ordering process. Once installed, deliveries are managed and co-ordinated by the CryoService distribution department to optimise the users delivery frequency.
- Full range of storage vessels available, ensuring suitability for almost all customer applications.
- No minimum liquid delivery requirement.



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## Oxygen - Wort Production

For wort production many brewers introduce Oxygen at the early stage of fermentation to ensure it proceeds satisfactorily. An insufficient oxygen level could result in the yeast cells being unable to reproduce (bud), consequently leading to an incomplete fermentation process. By utilising the CryoService Managed Cycle Schedule, oxygen will always be available, other benefits include:

- Ability to rent or purchase storage vessels (from 120 up to 2,000 litre capacity).
- No down-times or run-outs, which are associated with cylinders when in production, as the storage tank is permanently connected and contains the capacity of up to twelve traditional cylinders (in the case of a 230 litre vessel).
- Managed cycle delivery schedule, which minimises user involvement. CryoService monitor usage and automatically adjust deliveries accordingly.
- Removes the issue of manually handling high pressure cylinders.



## Other Services Available

- Personal Protective Equipment (PPE) – Glasses, Gloves, Aprons, Face Shields.
- Health and Safety – CryoService can offer a range of services from advice on best practice in the design and storage of equipment using liquid nitrogen to full safety audits and a range of safety training courses (either classroom or internet based, dependent upon the users requirement).
- Free site audits to ensure customer sites have optimised delivery frequencies and appropriate on-site storage capacity in comparison to industry standards.

## Overall

CryoService has a gaseous product offering for almost all beverage bottling and brewing process application, and has assimilated over the years a vast bank of expertise in these key markets. When discussing customer specific projects CryoService can propose an improved supply solution by utilising its engineering experience and combining this with one of the most comprehensive vessel storage offerings available.

For more information on how CryoService can work with your organisation, contact our Sales Support Office on **01905 758200** or email **info@cryoservice.co.uk**.