

# CryoEase® Argon service for ICP users



- Safety
- Convenience
- Security
- Simplicity



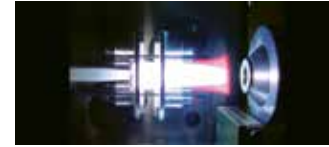
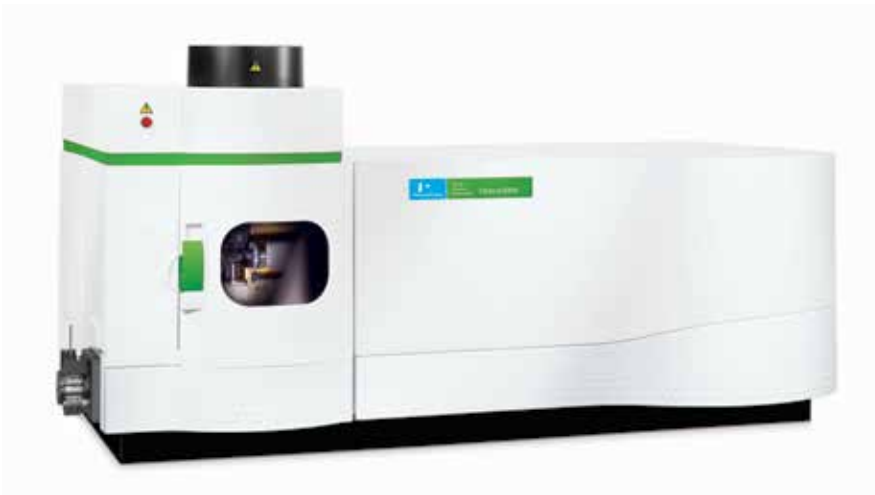
A well known GC manufacturer, who has worked with the Air Products CryoEase system in a number of countries have been quoted as saying:

*“We recommend CryoEase® argon deliveries from Air Products for a reliable and uninterrupted argon supply to our ICPs. The 5.2 quality is more than sufficient for ICP applications, and ordering, changing and connecting separate packs and cylinders is a thing of the past. Thanks to the modular setup, it is easy to extend capacity from a 230-liter CryoEase® tank to a 1000 or 2000-liter tank. This ensures that you will always have sufficient argon available, even if you acquire another ICP. It takes just one day to install the tank, using a “turn key” process. Using CryoEase® argon deliveries for ICP instruments is often cheaper than using separate cylinders, packs or change-out containers, so you can lower the cost of ownership of the ICP. Good news all round!”*

The CryoEase® service” from Air Products has been specifically designed to supply liquid argon to applications such as those found in the ICP market. Once in place the CryoEase system is simple to manage with little interaction required, as deliveries are automatically scheduled by Air Products, based upon the installed tank size and customer consumption. This allows users work worry free on their analysis safe, in the knowledge that gas will be available on whenever it is called for.

## Benefits of using a CryoEase® tank for ICP applications:

- **Increased productivity – less storage space required**
    - The storage capacity of a small, 230-liter CryoEase® tank is equivalent to 18 (heavy) 50-litre high-pressure cylinders of argon
    - The tank is filled on-site, so you do not need large numbers of back-up cylinders
    - As you lease the tank, you can opt to switch to a larger tank, with no cost penalty at any time if your gas consumption increases
  - **Save time and boost productivity**
    - You no longer need to place an order. Our system involves us making regular deliveries to you to replenish the CryoEase® tank with argon, therefore considerably reducing your administration costs
    - No more cylinder handling, as the tank is refilled on your premises by our experienced drivers. No more cylinder change-outs, lost cylinders or paying for gas you do not use. (typically returned cylinders contain residual gas)
  - **Optimum safety**
    - Reduced manual handling (i.e. cylinder transportation, cylinder connection and disconnection)
  - **Increased accuracy and reliability**
    - Using liquid argon guarantees consistent quality and a minimum purity of 99.9992% (5.2)
    - Onsite liquid deliveries ensure the argon supplied is guaranteed to be the purity stated.
    - Regular deliveries and the option of adapting the tank size to your changing consumption requirements Enables you to always have sufficient argon on-hand to operate your equipment.
- Finally, onsite filling of your storage tank ensures that you always have argon at your disposal and that no residual gas is returned. CryoEase® is a new and innovative way to bring the benefits of liquid gas delivery to customers who use cylinders, or cylinder packs.
- Options available are 230, 1000 or 2000-liter CryoEase® tank.



## Cryogenic tank information

### CE230/22



**Suitable for:**  
**Application:**  
**Portable:**  
**Max. pressure:**  
**Max. flow:**  
*Most common dimensions*  
**Height:**  
**Base:**  
**Diameter:**  
**Empty weight:**  
**Net capacity:**

N<sub>2</sub>, Ar, O<sub>2</sub>  
 Gaseous or liquid form  
 Optional  
 22 bar  
 11 Nm<sup>3</sup>/h @ 20 bar  
  
 1510-1610mm  
 740 x 710mm  
 660mm  
 140kg  
 Approximately 230 litres

### CE1000/24



**Suitable for:**  
**Application:**  
**Portable:**  
**Max. pressure:**  
**Max. flow:**  
*Most common dimensions*  
**Height:**  
**Base:**  
**Diameter:**  
**Empty weight:**  
**Net capacity:**

N<sub>2</sub>, Ar, O<sub>2</sub>  
 Gaseous or liquid form  
 No  
 24 bar  
 30 Nm<sup>3</sup>/h @ 20 bar  
  
 2150mm  
 1140 x 1140mm  
 1070mm  
 850kg  
 Approximately 950 litres

For more information,  
please contact us at:

#### United Kingdom

Air Products PLC  
 2 Millennium Gate  
 Westmere Drive  
 Crewe CW1 6AP  
 T +44 0800 389 0202  
 F +44 01932 258 652  
 apukinfo@airproducts.com  
 airproducts.co.uk

#### Ireland

Air Products Ireland Ltd.  
 Unit 950  
 Western Industrial Estate  
 Killeen Road  
 Dublin 12  
 T +353 1800 99 50 29  
 ieinfo@airproducts.com  
 airproducts.ie



**tell me more**  
 airproducts.com