... WHEN FAILURE ISN'T AN OPTION

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Air Products is your complete cryogenic supplier, growing with your storage needs, every step of the way

Whether you need a single dewar

Small scale

Dewar storage, liquid gas deliveries as required.



Liquid & Storage cvlinder deliverv

Medium scale

Cryogenic freezer with dry sample storage, liquid gas bulk container refilled on site.



Cryogeni storage liauid freezers delivery

Large scale

Complete project management, remote monitoring of onsite liquid gas levels, pipeline to network of cryogenic storage freezers.



By partnering with Chart BioMedical, world leaders in cryogenic storage vessels, we are uniquely placed to offer all aspects of cryogenic sample storage, from all sizes of cryo-storage vessels to liquid nitrogen supply. Ensuring you have the safest and most economical storage solution for your samples. Air Products is the preferred distributor for UK & Ireland for the Chart MVE range of Cryogenic equipment.

dewars

• Stability

• Efficiency

for sample storage

Lowest below-the-lid nitrogen vapour temperatures. Chart is the only manufacturer who will certify -190°C below the lid.

Lowest liquid nitrogen consumption in the industry.

• Sample security

The units can maintain temperatures for up to 23 days without liquid nitrogen supply.

Ease of access

The offset lid and free-moving turntable on the High Efficiency series means the samples are brought to you for ease of removal. The integrated double step (1500 and 1800 series) provides the lowest lift-over height in the industry.

Improved safety

Nitrogen vapour storage considerably reduces the risk of liquid nitrogen "drag-out" when removing samples from the freezer, hence minimising the splashing hazard for the operator.

Reduced carbon footprint

The award-winning MVE Vario is the energy saving alternative to -20°C to -150°C mechanical freezers. The low power consumption of the freezers means that the energy requirement is less than 1% of that of conventional mechanical freezers. In addition, there is no heat emitted so you won't require expensive air conditioning, thus minimising your carbon footprint.



An easy-to-use, efficient and safer solution

The Chart MVE range of cryogenic freezers offers a variety of benefits for your sample storage needs, including:

Optimised capacity

Chart freezers are available with extra height options, allowing you to store a greater quantity of samples for the footprint of your freezer. This is an ideal solution where floor space is very limited.

• Easy operation

The MVE TS (Touchscreen) controller employs a variety of advanced features that enable the controller to monitor and control the environment inside the freezer with a high level of precision.

- Auto-fill system
- Integrated hot gas by-pass facility
- Keyless security system
- Level and temperature controls with both visible and audible alarms
- A standard Ethernet connection is available on the MVE TS controller for network connectivity
- An independent RS-485 interface port is available for communication with other MVE TS controllers, remote PCs or printers
- Stores time and date-stamped information on 30,000 most recent events, which can be easily downloaded via the USB port and imported into a spreadsheet
- Optional battery back-up

Features include:

The right fit for you and your samples

Chart BioMedical produces the widest range of liquid nitrogen storage vessels on the market, including high-capacity, lowemission -190°C nitrogen vapour freezers, aluminium liquid nitrogen freezers, vapour shippers and storage dewars. Use the selector guide to help you choose the model that best suits your needs.

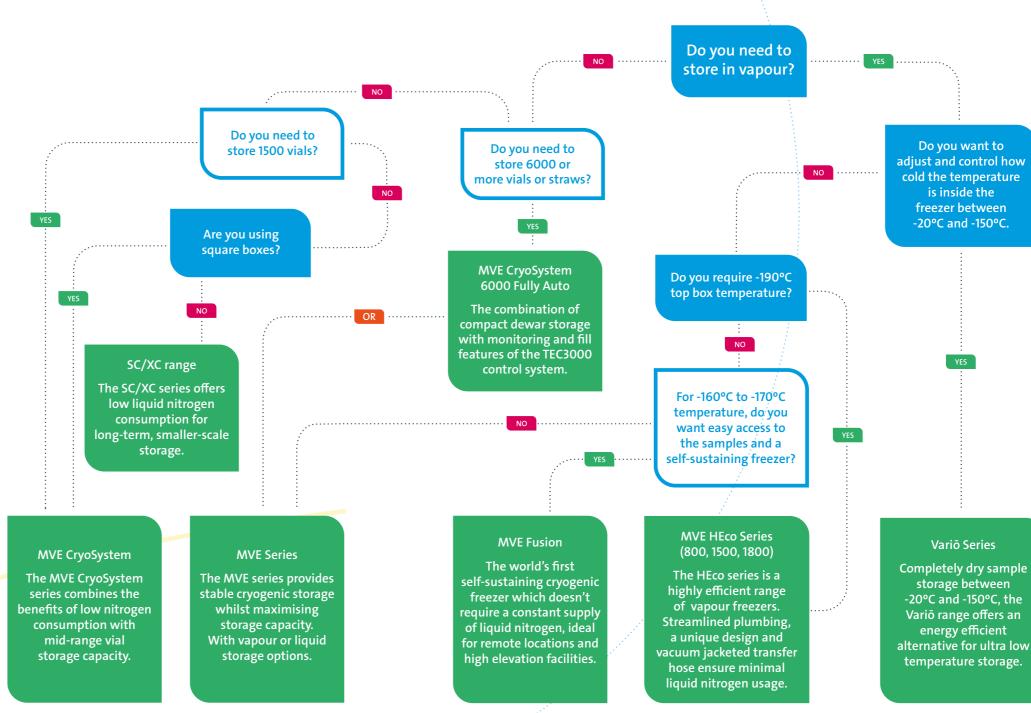
In addition, our trained sales team is available to give you recommendations to suit your requirements, on **0800 389 0202**.

Total product solution

Air Products has developed a fully comprehensive project management solution from gas supply, laboratory design, installation, sample storage and training, through to ongoing maintenance and support. With our strong knowledge of liquid nitrogen and leading range of Chart freezers, we are able to provide the optimum turnkey solution for your needs.

Air Products is one of the only companies that can offer a total cryogenic storage solution. Our expertise has been gained over 30 years, during which time we have assisted in hundreds of installations from fertility labs, blood and cell storage, to stem cell research within the UK and Ireland.

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Cryo-room design and installation

Air Products can provide design and installation services for the set-up of a new cryopreservation laboratory or the expansion of an existing laboratory. Managing a cryo-room project is a very complex process; Air Products can assist with the many factors that need to be taken into consideration, including:

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- Cryo-room location and layout
- Current vs future requirements
- The right equipment
- Siting of the freezers
- Storage options
- The right materials for the room
- Pipework considerations

Gas supply

Nitrogen and carbon dioxide

Air Products is one of the largest liquid nitrogen suppliers in the UK. We operate a specialised delivery fleet, optimised for this application from van-based services for city centre work, to our high-capacity rigid tankers. We offer a full range of supply options from cylinders to large liquid bulk tanks.

Liquefied gas storage vessels

Storage vessel options extend from desk flasks to bulk vessels, and we offer lease facilities to match your budgetary requirements.

- Filling options
- Extraction systems
- Oxygen level monitoring
- Health and safety
- Security of access
- The right partners



Other products and services you may be interested in:



Pipework



We offer a unique and scalable solution to the supply of liquid carbon dioxide for incubators, ranging from traditional cylinder options, to the innovative CarboStore mini-bulk storage technology and full bulk supply.



Nitrogen

Where multi-gas incubators are used, we can supply liquid nitrogen and storage vessels to suit customer specifications. For smaller capacities, we can offer cylinder gas options for both carbon dioxide and nitrogen.



Pharma Grade gases meet all legal requirements.

Analytical and speciality gases and non-refillable cylinders.

We can help you to design and install a laboratory, including high purity pipework, both liquid and gaseous products, as well as specialist gas control equipment.

Where gas quality and full traceability are critical, our Pharma Grade gases

Precision gas mixtures and pure gases are available in a full range of refillable

Model range

Product Range	Description	Capacity
Variō Series	Stainless steel Variable rate freezer -20°C to -150°C	Up to 94,500 vials(1) Up to 6,432 blood bags(2)
HEco Series	Stainless steel vapour freezer -190°C top box temperature	Up to 94,500 vials(1) Up to 6,432 blood bags(2)
MVE Series	Stainless steel liquid or vapour freezer	Up to 39,000 vials(1) Up to 3,968 blood bags(2)
MVE Fusion	Stainless steel Self-sustaining vapour freezer	Up to 31,200 vials(1) Up to 2,296 blood bags(2)
Cryocart	Portable vapour workbench	N/A
MVE CryoSystem	Aluminium canister liquid freezer	Up to 6,000 vials(1)
SC/XC Series	Aluminium canister liquid freezer	Up to 1,320 vials(1) Up to 6,200 straws
Shippers	Dry vapour shipper for samples	Up to 1,134 vials(1) Up to 7,410 straws Up to 10 blood bags(2)
Doble Series	Liquid storage Vapour shipment	Up to 1,320 vials(1) Up to 4,500 straws
Lab Series	Liquid nitrogen dewar	4-50L

Blood bag capacity based on compact (25ml) blood bags (dependent on inventory design). For capacities with other media, please refer to our literature. 2 Ξ

For more information, please contact us at:

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