

CryoEase[®] microbulk solutions for hydrogen and helium and helium



A cost-effective alternative to cylinder gas supply



Microbulk delivery helps you maximize safety at your site.

- Eliminate cylinder handling
- Reduce the number of deliveries
- Reduce risk of product mix-up

Microbulk delivery helps improve quality control, too.

- Eliminate potential contamination with dedicated containers
- Simplify inventory management
- Increase operating efficiencies through constant onstream supply



CryoEase microbulk solutions for your hydrogen and helium needs offer the same benefits, same enhancement and same great supply mode as we provide for nitrogen, argon and oxygen. We developed this supply option for customers looking for a cost-effective, reliable alternative to cylinders. We've engineered a storage system for hydrogen and helium, enabling the module to be installed and filled on-site, replacing traditional cylinder change-outs.

Because the modules are engineered to be installed and filled on-site, you'll get the advantages of bulk supply when your usage is less than traditional bulk delivery volumes.

Greater efficiencies can help reduce costs.

- Eliminate residual product returned in high pressure cylinders/dewars
- Eliminate lost-cylinder costs
- Decrease number of invoices and streamline purchase orders, which may reduce administrative and transaction costs
- Eliminate cylinder change-outs, which may reduce labor costs
- Free space formerly used for cylinder storage
- Provide flexibility to add or remove modules to adjust for changes in volume

Hydrogen/Helium Storage Module Features

DESIGN DETAILS

Parameters	Specification	Units of Measure
Total capacity (@ 2,100 psi)	5,600	Scf
Service pressure	3,000	PSIG
Dimensions (w x d x h)	52 x 56 x 77	Inches
Total weight	4,900	Pounds
Safety	D.O.T. rated tanks	

EQUIPMENT DETAILS

Description	Material	Details/Comments
Cylinders	16 (500 scf) high strength carbon steel	Meets D.O.T. requirements
Valves	Bronze	Per CGA
Relief vent	Stainless steel	None
Thermal relief device	Fusible rupture disk @ 4,500 psi for each cylinder	Meets D.O.T. requirements
Control panel	Regulator, gauge and isolation valve mounted on front of frame for easy viewing and access	Flow capacity up to 1500 scfh and delivery pressure range from 50 to 250 psig

SITE REQUIREMENTS

Item	Details
Foundations required	None – Can be sited on macadam surfaces or gravel with proper supports
Electrical	None – Class 1, Division 2, Group B siting requirement for hydrogen
Water	None required
Phone	None required
Grounding rod	Required at site
Siting distances	Per NFPA 55 – Air Products will provide site evaluation
Installation	Steel frame with forklift channels

TRANSPORTATION REQUIREMENTS

Item	Details
Trailer design	Complies with 49 CFR
Transport requirements	Delivered by tractor trailer and set up for operation by Air Products

For more information,
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