



MicroBulk - ICP

Benefits:

- HighProduct Quality
- Stable Pressure & Flow
- Eliminates Re-Stabilization Time
- Reduced Costs

MicroBulk for ICP

The MicroBulk system consists of a cryogenic storage tank and a differential pressure gauge. This highly efficient system is connected to the ICP in similar manner as a liquid cylinder, but is permanently installed. Our MicroBulk transport truck fills the unit on site as required.

The MicroBulk system eliminates supply interruptions with consistent gas quality that ensures reliable analytical results.



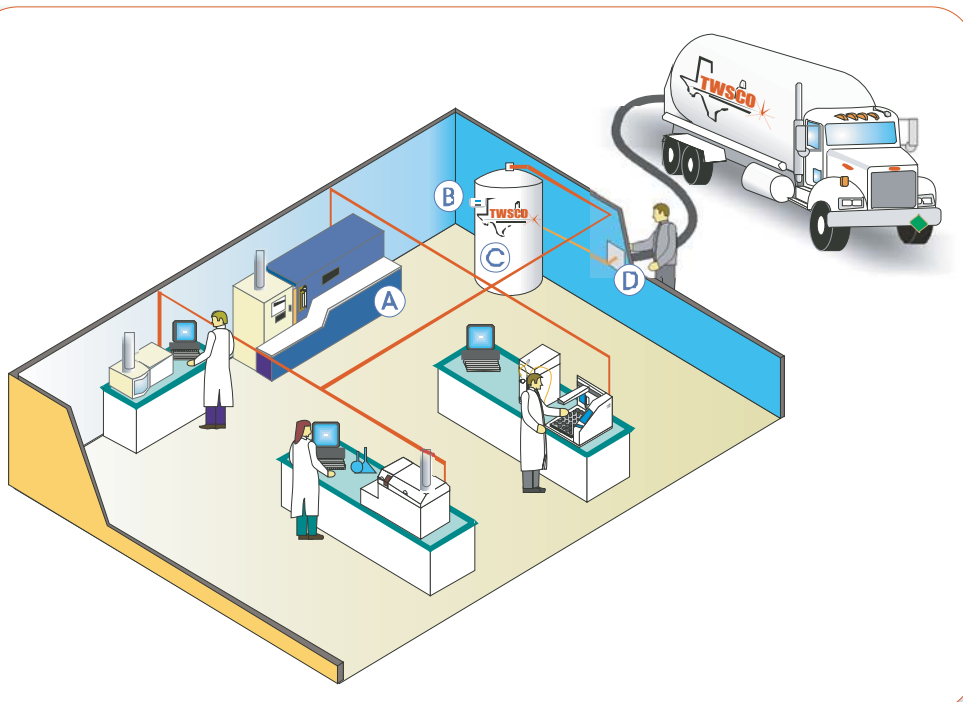
The MicroBulk Value

Convenience

- Uninterrupted supply
- TWSCO supply management-Telemetry
- No cylinder or dewar handling and changeouts
- No cylinder or dewar monitoring
- Eliminates damage to floors and frees up lab space
- Centralized gas supply
- Eliminates equipment downtime

Improved Cost Savings

- Obtain a gas savings of up to 40%
- No residual gas returned to supplier
- More efficient accounting and ordering
- No cylinder or dewar inventory management
- No cylinder change out labor
- No lost gas from idle cylinders venting



A. With a MicroBulk system, the customer can centralize the gas to a single stationary vessel. With the use of piping or tubing, gas can be sent to any number of pieces of equipment.

B. With TWSCO's Telemetry device installed in the customer's MicroBulk system, the system is monitored to ensure the gas supply is uninterrupted.

C. MicroBulk stainless steel vessels are stationary and are not exchanged. By maintaining a single, well maintained vessel on site, quality and costs savings are improved.

D. MicroBulk tanks can be filled remotely via a wall mounted fill box without the need of interrupting the customers activities.



Perma-Cyl Specifications

Container	230 Liter	450 Liter	700 Liter	1000 Liter	1500 Liter
MWAP (psi)	350	350	350	350	350
Net Gallons	61	111	174	251	385
Capacity					
Nitrogen (scf)	4,734	10,332	15,557	23,370	35,550
Oxygen (scf)	5,930	12,760	19,600	28,861	43,900
Argon (scf)	5,763	12,478	18,789	28,225	42,950
CO ₂ (lbs)	515	940	1,470	2,126	3,357
Gas Del. Rate					
SCF/H	400	575	660	575	1,350
Dimensions					
Diameter(in)	26	30	42	42	48
Height(in)	61	68	60	81	91
Tare Weight(lbs)	340	688	1,165	1,750	2,692



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