

PERMA-CYL® 700 HP

MEETS NFPA 99 REQUIREMENTS FOR INDOOR OXYGEN STORAGE

The Perma-Cyl® 700 HP MicroBulk Storage System is designed to allow the user the maximum amount of indoor oxygen storage per NFPA 99. A perfect indoor storage system for medical MicroBulk applications.

PRODUCT HIGHLIGHTS

- Patented float design allows for a ventless, auto shutoff when filled with an Orca™ MicroBulk Delivery System.
- Option packages allow the user to customize plumbing on tank to meet all requirements for a medical oxygen delivery system.
- Optional pallet base allows for easy movement with a forklift or pallet jack.
- Extended holding times.
- Telemetry ready with new Cyl-Tel® Liquid Level Gauge.



Plumbing Configuration - Top View



Telemetry ready Cyl-Tel® Liquid Level Gauge



Perma-Cyl 700 HP



Innovation. Experience. Performance.®

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CAPACITIES		
Gross Volume	181.8 gal	688 liters
Net Volume	170.4 gal	645 liters
Gas Storage Capacity		
Oxygen	See Table 1	See Table 1
Nitrogen	See Table 1	See Table 1
Argon*	19,160 scf	542 Nm ³
Carbon Dioxide*	12,608 scf	357 Nm ³
GENERAL SPECIFICATIONS		
Relief Valve Setting / MAWP	350 psi	24.1 bar
Overall Height w/ Piping	62.5 in	1588 mm
Width w/ Lab Base	47 in	1194 mm
Tank Diameter	42 in	1067 mm
Tare Weight**	1250 lbs	567 kg
PERFORMANCE		
Normal Evaporation Rate (% per day)***		
Nitrogen	1%	1%
Oxygen & Argon	0.62%	0.62%
Carbon Dioxide	.3%	.3%
Gas Supply Rate		
Carbon Dioxide	660 scfh	18.6 Nm ³ H
	220 scfh	6.2 Nm ³ H
CONSTRUCTION		
Design & Manufacturing Code	ASME Sec. VIII Div. 1	
Outer Vessel	Type 304 SS	

Oxygen & Nitrogen Capacities based on Normal Tank Operating Pressures (Table 1)

Operating Pressure (saturated)	O ₂ Capacity (SCF)	N ₂ Capacity (SCF)	O ₂ HP Back up ¹ (300 scf) Total No. Allowed
0	19,582	15,867	1
50	18,041	14,358	6
100	17,176	13,474	9
150	16,506	12,771	11
200	15,912	12,139	13
250	15,370	11,539	15
300	14,854	10,939	17

¹Depicts number of high pressure cylinders that can be used for the secondary supply source to stay below 20,000 scf of indoor storage capacity per NFPA 99.

Footnotes: Specifications subject to change without prior notice.

Patent: 5,954,101

*Values are based on net capacity at 0 psig (0 barg).

**Weight does not include lab base (265 lbs).

***Values are based on gross volume.

