

PERMA-CYL® 450 ZX VHP

PORTABLE HIGH-PERFORMANCE MICROBULK STORAGE

The Perma-Cyl® 450 ZX VHP is the latest addition to the Perma-Cyl Series. It is designed and built with a rugged internal support system for mobility full of liquid within its protective metal pallet. Unlike the Mega-Cyl Series, the Perma-Cyl 450 ZX VHP features the internal float and spray system for single-hose auto shut off with the Orca delivery unit. With the on-board external aluminum heat exchanger, the Perma-Cyl 450 ZX VHP is rated at a flow rate of 2000 SCFH while sustaining 420 to 450 psig. The vessel is bolted to a dedicated metal pallet for full protection and transportability with an overhead crane or forklift. The portable design makes the Perma-Cyl 450 ZX VHP the ideal quick-response solution for demanding industrial gas applications, like laser-assist gas.



PRODUCT HIGHLIGHTS

- Internal Perma-Cyl top fill float assembly for single-hose auto shut off with the Orca unit
- Rugged internal support system allows full mobility full of product
- High flow external aluminum vaporizer and pressure builder system provides up to 2000 SCFH at 420 to 450 psig
- Metal pallet incorporates forklift slots and crane lifting lugs while protecting plumbing and tank during transportation and application use
- Pallet has durable exterior coating for maximum corrosion resistance



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CAPACITY	
Liquid (Gross) (liters)	450
Liquid (Net) (liters)	420
Gas (LIN) ft ³ / Nm ³	7922 / 208.2
Gas (LOX) ft ³ / Nm ³	10,519 / 276.4
Gas (LAR) ft ³ / Nm ³	10,241 / 269.1
Gas (CO ₂) ft ³ / Nm ³	7960 / 209.2
Gas (N ₂ O) ft ³ / Nm ³	7516 / 197.5
PERFORMANCE	
NER (LIN) % per day	1.6
NER (LAR / LOX) % per day	1.0
NER (CO ₂ / N ₂ O) % per day	0.5
Gas Flow (LIN/LAR/LOX)* SCFH / Nm ³ / hr	2000 / 52.6**
Gas Flow (CO ₂ / N ₂ O)	665 / 17.5
DIMENSIONS & PRESSURE RATINGS	
Diameter (cylinder) in / cm	30 / 76.2
Height (cylinder) in / cm	69.3 / 176.0
Base Width (frame) in / cm	47 / 119.4
Base Depth (frame) in / cm	47 / 119.4
Base Height (frame) in / cm	82 / 208.3
Tare Weight lb / kg	1450 / 658***
Full Weight lb / kg	
Nitrogen	2024 / 918
Oxygen	2321 / 1053
Argon	2509 / 1138
Relief Valve Setting psig / barg	500 / 34.5
DOT Rating	4L412

*At 450 psig sustained pressure. **Higher flows can be achieved with reduced duty cycles and/or additional vaporization.

***Weights include tank and pallet, are approximate and vary with pallet design.

