

# PERMA-CYL® 1500 ZX VHP

PORTABLE HIGH-PERFORMANCE MICROBULK STORAGE

The Perma-Cyl® 1500 ZX VHP MicroBulk Storage System is designed and built for high pressure and high flow applications. The system features a top and bottom fill (FlexFill™) style tank housed within a rugged pallet frame. The internal ullage tank allows for a ventless, single hose fill auto shutoff when filled with the Orca™ MicroBulk Delivery System. With the on-board external aluminum process and pressure build vaporizers, the Perma-Cyl 1500 ZX skid is rated at a flow rate up to 3000 SCFH while sustaining 420-450 psig under normal ambient conditions. The vessel and vaporizers are secured to a dedicated metal pallet frame which gives this piece of equipment a small footprint as well as full protection and transportability with a forklift. The portable design makes the Perma-Cyl 1500 ZX VHP skid the ideal quick response solution for demanding industrial gas applications, like laser-assist gas.



## PRODUCT HIGHLIGHTS

- Perma-Cyl system is equipped with top and bottom fill (FlexFill™ Piping Option) for accurate pressure control during delivery
- High flow external aluminum vaporizer and pressure builder system provides up to 3000 SCFH at 420 to 450 psig
- Separate pressure build and economizer regulators with isolation valves
- Dual relief valves and rupture discs with diverter valve
- Provides safe, single hose, no loss, auto shutoff fill when used with Orca™ MicroBulk Delivery System
- Metal pallet incorporates forklift slots while protecting plumbing and tank during transportation and application use
- Pallet has durable exterior coating for maximum corrosion resistance



Innovation. Experience. Performance.®

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CAPACITY	1500 ZX VHP
Liquid (Gross) (liters)	1,550
Liquid (Net) (liters)	1,455
Gas (LIN) ft <sup>3</sup> / Nm <sup>3</sup>	35,790 / 1,013
Gas (LOX) ft <sup>3</sup> / Nm <sup>3</sup>	44,220 / 1,250
Gas (LAR) ft <sup>3</sup> / Nm <sup>3</sup>	43,220 / 1,223
PERFORMANCE	
NER (LIN) % per day	1.0
NER (LAR / LOX) % per day	.62
NER (CO <sub>2</sub> / N <sub>2</sub> O) % per day	0.3
Gas Flow (LIN/LAR/LOX)* SCFH / Nm <sup>3</sup> / hr **	3,000 / 85.0
DIMENSIONS & PRESSURE RATINGS	
Diameter (cylinder) in / cm	48 / 1,219
Height (cylinder) in / cm	91 / 2,311
Base Width (frame) in / cm	61.5 / 156.21
Base Depth (frame) in / cm	61.5 / 156.21
Base Height (frame) in / cm	93 / 236.22
Tare Weight lbs / kg	2775 / 1258.7
Relief Valve Setting psig / barg	500 / 34.5

\*At 450 psig sustained pressure, 8 hours, 70° ambient. \*\*Higher flows can be achieved with reduced duty cycles and/or additional vaporization.

