## PERMA-CYL® ZX VHP PORTABLE HIGH-PERFORMANCE MICROBULK STORAGE

The Perma-Cyl<sup>®</sup> 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<sup>™</sup> MicroBulk Delivery System. The system is offered in 1500 and 3000 Liter capacities. 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 and the Perma-Cyl 3000 ZX skid is rated at a flow rate up to 5000 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 ZX VHP skid the ideal guick response solution for demanding industrial gas applications, like laser-assist gas.



## **PRODUCT HIGHLIGHTS**

- Perma-Cyl system is equipped with top and bottom fill (FlexFill<sup>™</sup> Piping Option) for accurate pressure control during delivery
- High flow external aluminum vaporizer and pressure builder system provides up to 3000 SCFH and 5000 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<sup>™</sup> 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
- Courtesy valve, available on the Perma-Cyl 3000 ZX, allows utilization of the process vaporizers, from the delivery assist on Orca, during the fill of the main tank to keep the customer online during fill process.



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Capacity	1500 ZX VHP	3000 ZX VHP
Liquid (Gross) (liters)	1550	2911
Liquid (Net) (liters)	1455	2707
Gas (LIN) ft <sup>3</sup> /Nm <sup>3</sup>	35,790 / 1013	66,592 / 1750
Gas (LOX) ft <sup>3</sup> /Nm <sup>3</sup>	44,220 / 1250	82,239 / 2161
Gas (LAR) ft <sup>3</sup> /Nm <sup>3</sup>	43,220 / 1223	80,425 / 2115
Performance		
NER (LIN)% per day	1.0	1.0
NER (LAR/LOX)% per day	.62	.62
Gas Flow (LIN/LAR/LOX)* SCFH/Nm3/hr**	3000 / 85.0	5000 / 141.6
Dimensions & Pressure Ratings		
Diameter (cylinder) in/cm	48 / 121.9	58 / 147.3
Height (cylinder) in/cm	91 / 231.1	116.5 / 295.9
Base Width (frame) in/cm	61.5 / 156.2	85 / 215.9
Base Depth (frame) in/cm	61.5 / 156.2	85 / 215.9
Base Height (frame) in/cm	93 / 236.2	124.5 / 316.2
Tare Weight Ibs/kg	3500 / 1587.6	8500 / 3856
Full Weight Ibs/kg		
Nitrogen	6262 / 2840.4	13,687 / 6208
Oxygen	7401 / 3357.0	15,827 / 7179
Argon	8261 / 3747.1	17,443 / 7912
Relief Valve Setting psig/barg	500 / 34.5	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.

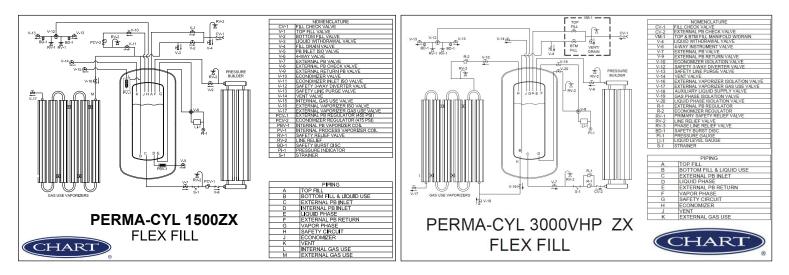


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