

PERMA-MAX™ 1400 XHP

EXTRA HIGH PRESSURE MICROBULK STORAGE FOR CO₂ SERVICE

The Perma-Max™ 1400 XHP MicroBulk Storage System is Chart's introductory model to address extra high pressure CO₂ applications. Current applications include, but are not limited to, special effects and botanical extraction. The unique design of this Perma-Max system allows only for the delivery of high pressure liquid CO₂ at operating pressures up to 750 psig. An integral electric pressure build vaporizer sustains pressure for high liquid flows and provides rapid pressure recovery after filling. The upsized fill and vent circuits allow for a much faster fill as compared to the standard Perma-Cyl model.

PRODUCT HIGHLIGHTS

- Beverage quick disconnect fill fitting to allow filling from standard beverage CO₂ delivery trucks. (Other fill fitting options are available.)
- 1" bottom withdrawal nozzle for very high liquid flow rates
- Integrated 9kW electric pressure build vaporizer for sustaining pressure during high flows and rapid pressure recovery after fills
- Steel pallet base allows for easy movement with a forklift or pallet jack
- Chart Vacuum Technology® for extended product holding times
- Dual safety reliefs with diverter valve for ease of maintenance
- Muffler on vent for noise reduction during blow down



Perma-Max 1400 XHP



Actuated ball valve



ThermoBlock Electric Pressure
Builder Vaporizer



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Specifications

PermaMax 1400 XHP		
General Specifications		
Relief Valve Setting / MAWP	800 psi	55 bar
Overall Height w/ Pallet Base & Piping	70.4 in	1778.2 mm
Width x Length w/ Pallet Base	72.6 x 46.6	1844 x 1183
Tank Diameter	42 in	1067 mm
Tare Weight w/ Pallet Base & Vap.	2100 lbs	253 kg
Thermax Electric PB Vap.	9kW	480 VAC 3 phase or 208 VAC 3 Phase
Capacities		
Gose Volume	171 gal	646 liters
Net Volume	160 gal	606 liters
Gas Storage Capacity*	11,826 scf	335 Nm ³
Liquid Storage Capacity*	1352 lbs	615 kg
Performance		
Normal Evaporation Rate (% per day)**	.3%	
Liquid Supply Rate (Peak Flow Rate)	2 lb/sec/nozzle	1 kg/sec/nozzle
Construction		
Design & Manufacturing Code	ASME Sec.VIII Div. 1	
Outer Vessel	Type 304 SS	
Pallet Base	Galvanized Carbon Steel	

Footnotes: Specifications subject to change without prior notice.

* Gas measured at 1 atm and 70°F. Liquid measured at 1.7°F and 300 psig/20.7 barg saturated pressure

** Values are based on gross volume.

