

Are you still moving metal instead of molecules?



Go Green with MicroBulk.

The Orca® MicroBulk System from Chart is clearly the most efficient method of distributing packaged gases to your customers. By combining the Orca delivery truck with a Perma-Cyl® storage vessel and the Cyl-Tel® telemetry system, your customers will enjoy all the benefits of bulk gas in a clean and efficient micro-package.

Help the environment and improve bottom line profits for both you and your customers. Go green with the MicroBulk System from Chart.

- » **Orca Delivery System:** Submerged pump or pumpless designs reduce delivery time and cost of ownership
- » **Perma-Cyl Storage Vessel:** Clean stainless steel appearance and configured to match any application for easy installation
- » **Cyl-Tel Telemetry System:** Multiple platform telemetry-ready gauge eliminates costly gas outages
- » **Marketing Support:** Unparalleled sales and technical training positions our authorized partners for growth



Chart USA
Chart Ferox
Chart China

New Prague, MN
Decin, Czech Republic
Changzhou, PR China

www.chart-ind.com
www.chart-ferox.com
www.chartchina.com



Innovation. Experience. Performance.®

ORCA XT-2500

MICROBULK AND SMALL BULK DELIVERY UNIT



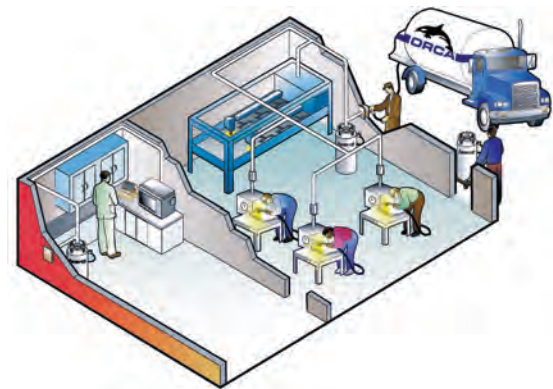
Take control of your gas market with the ORCA XT-2500 delivery system

The ORCA XT-2500 delivery system is an innovation in pump-less “pulse transfer” MicroBulk technology that will radically improve your small bulk and packaged gas distribution. The ORCA XT-2500 product will expand the MicroBulk market by lowering distribution barriers and costs, improving customer satisfaction compared to traditional full-for-empty cylinders. Pulse transfer technology works in harmony with Chart Perma-Cyl® storage vessels and small bulk tanks.

PRODUCT HIGHLIGHTS

- Replaces the nuisance and waste of full-for-empty cylinders for both the gas supplier and the gas user
- Operates perfectly with Perma-Cyl vessels, including the auto shut-off to ensure optimum filling
- Fast deliveries - 300 liters in less than 7 minutes without metered filling losses or 60 gpm from the main tank
- Improves overall gas distribution efficiencies
- Ideal delivery solution for stationary users of packaged gas from 4,000 scf to 100,000 scf per month
 - Eliminates costly cryogenic pumps and excessive blow-down
 - Reduces investment by up to 20%
 - Lowers service and maintenance costs
 - Cuts total distribution time by up to 50% compared to HP gas cylinders
 - Smart Flow Instruments DP flow meter ensures accurate billing
- Creates gas supplier differentiation, competitive advantages, enhanced margins and customer loyalty
- Quiet operation - no engine, PTO or alternator required

MicroBulk Delivery



Gas Distribution Pyramid



Innovation. Experience. Performance.™

ORCA XT-2500

MICROBULK AND SMALL BULK DELIVERY UNIT



MODEL	XT-2500		
Gas Services	LIN, LAR and LOX		
Dispense Method/Technology	Pulse Transfer Plus Pulse Pressure		
Pressure Builder Type	HP ² & ZX technologies		
Design Code	ASME and CGA- 341		
SPECIFICATIONS	Overall Unit	Main Tank	Pulse Tank
Gross Capacity (gal/ltrs)	2,625 / 9,927	2,546 / 9,627	79 / 300
Capacity ^{***} - CGA-341 (gal/ltrs)	2,504 / 9,470	2,425 / 9,170	79 / 300
MAWP (psig/bar)		245 / 16.9	350 / 24.1
Overall Length (in/cm)	308 / 782	220 / 559	27 / 69
Overall Height (in/cm)	111 / 282	86 / 218	70 / 178
Diameter/Width (in/cm)	72 / 183	72 / 183	26 / 66
Tare Weight (lbs/kg)	11,570 / 5,260		
PERFORMANCE			
Dispense Rate (gpm/lpm)		10-60 / 38-227	10-40 / 38-151
Max. Dispense Pressure (psig/bar)		235 / 16.2	325 / 22.4
Max. Receiving Tank Pressure ^{***} (psig/bar)		135 / 9.3	225 / 15.5
Optimum Receiving Vessel	Large Perma-Cyls & Small Bulk		Perma-Cyl
REQUIREMENTS			
Power	12 VDC x 10 Amp		
Truck ^{****}	Double axle sized for service		
Air Ride Required	GVW 32,000 lbs to 46,000 lbs		
Trailer ^{****}	Available - consult factory		

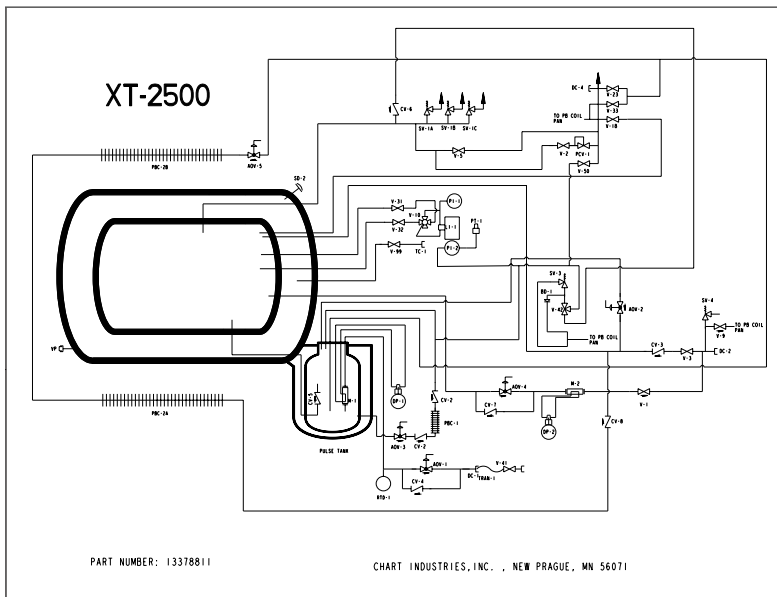
Patents: 5,616,838 - 5,787,942 - 5,954,101 - 6,654,848 and other patents pending. Specifications are subject to change without prior notification.

^{*} With road relief valve at 25.3 psig

^{**} Maximum fill levels depend on vehicle specifications

^{***} For optimum single hose, no-loss fill

^{****} Customer supplied per Chart's requirements



Control Cabinet



Chart Inc.
 U.S. : 1-800-400-4683
 Worldwide: 1-952-758-4484



©2006 Chart Inc.
 PN 13408929
 www.chart-ind.com