

ORCA™ CO₂ SERIES

MICROBULK DELIVERY UNIT FOR CARBON DIOXIDE



Take Control of Your CO₂ Distribution with the Orca™ CO₂ Series MicroBulk Delivery System

For years, Chart has provided the finest MicroBulk delivery units for atmospheric gases and is now offering the Orca system in CO₂ service with similar features. Designed to fill the Carbo-Mizer® and Carbo-Max® Bulk CO₂ Systems and the Perma-Max™ MicroBulk CO₂ System, the Orca CO₂ unit will provide you with a safe, efficient, and reliable delivery unit for years to come.

The stainless steel inner vessel on the Orca CO₂ delivery unit is protected by a high quality vacuum with super insulation for minimal heat transfer. This insulation system eliminates just-in-time filling and provides colder CO₂ necessary for a single-hose, no loss fill to the storage vessel. To maintain a high delivery pressure from stop to stop, the Orca CO₂ delivery unit incorporates a dedicated diesel-fired glycol-based pressure builder system.

All Orca CO₂ Series delivery units are equipped with the Flowcom® Flow Meter System available with data options. The Flowcom stainless steel meter section contains no moving parts for low maintenance, calibration stability, dry ice resistance, and has a lifetime warranty.

PRODUCT HIGHLIGHTS

- 3.8, 5.5 ton capacity – Single axle models*
- 6.5, 10.5, 13 ton capacity – Tandem axle models
- Inner vessel 350 psi MAWP (ASME Section VIII, Div. 1)
- Specification MC-338**
- Stainless steel inner vessel (Food Grade Standard) with a design temp of -320°F
- Painted steel vacuum jacketed welded outer
- Lightweight, corrosion-resistant cabinet and plumbing components
- 100' hose & reel
- Customer sourced truck built to Chart's specifications
- 3-year Vacuum Warranty

* < 33,000 lbs GVW (No FET required)

** 5-year DOT inspection required

*** National Conference of Weights & Measures Certificate No.: 99-139A3

PIPING FEATURES

- Diverter valve to allow for relief valve servicing
- Stainless steel piping and ball valves
- ThermaFired™ pressure builder provides fast acting pressure rise in any ambient conditions
- Flowcom® Flow Meter System (30 - 500 lbs/min) with display***

OPTIONS

- Hose reel (50 - 120 lbs/min)
- Bulk dispense (100 - 500 lbs/min) with vapor balancing
- Bulk transfer hoses (fill & vapor) and storage tubes
- Dedicated high pressure cylinder storage / Carbo Series tanks
- Multiple tool box sizes and quantities
- Pressure or pump (hydraulic) transfer
- Pump option includes the ability to assist with filling the Orca CO₂ truck
- Pump through the hose reel provides ~20 lbs/min more flow



Innovation. Experience. Performance. ®

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SPECIFICATIONS

| MODEL | 3.8 Ton | 5.5 Ton | 6.5 Ton | 10.5 Ton | 13 Ton Trailer |
|---|-------------------|-------------|-------------|-----------------|------------------------|
| MC338 Capacity (gal/ltrs) | 857 / 3244 | 1225 / 4637 | 1480 / 5602 | 2340 / 8858 | 2970 / 11,243 |
| Overall Length (in/cm) | 146 / 371 | 181 / 460 | 205 / 521 | 253 / 643 | 346 / 879 |
| Overall Height (in/cm) | 68 / 1173 | 68 / 1173 | 68 / 1173 | 68 / 1173 | 115 / 292 (w/ trailer) |
| Overall Width (in/cm) | 102 / 259 | 102 / 259 | 102 / 259 | 102 / 259 | 102 / 259 |
| Tare Weight (lbs/kg)* | 6900 / 3130 | 8600 / 3900 | 9700 / 4400 | 13,700 / 6215 | 16,400 / 7440 |
| Truck Rear Axle | Single | | Tandem | | |
| Under 33,000 lbs GVWR / US FET | Yes | | No | | |
| PERFORMANCE | | | | | |
| Pressure Building Type | ThermaFired™ | | or | ThermaFired™ XL | |
| Dispense Method | Pressure Transfer | | or | Pump | |
| Min. Dispensing Rate (lbs/min / kg/min)** | 30 / 13.6 | | 30 / 13.6 | | |
| Max. Dispensing Rate (lbs/min / kg/min)** | 500 / 226.8 | | 500 / 226.8 | | |
| Max. Dispensing Pressure (psig/barg) | 350 / 24.1 | | 400 / 27.6 | | |

*Tare weights are estimated, and calculations will be confirmed when each size is built.

**Minimum and Maximum Dispensing Rates are dependant on many variables: Orca truck pressure, receiver pressure, liquid temperature, flow circuit restriction, etc. Specifications subject to change without notice.

STANDARD DESIGN FEATURES

- Built to ASME and MC-338 design codes
- Flowcom® Flow Meter System
- MAWP 350 psi / 24.1 bar
- Pump can be used to fill Orca truck
- 100' hose reel
- Vapor return connection

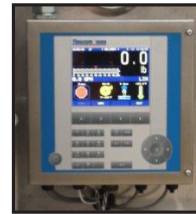


Chart Exclusive –
 “Smart” flow metering system monitors flow electronically with no moving parts in meter section (standard on all models).

Control Cabinet

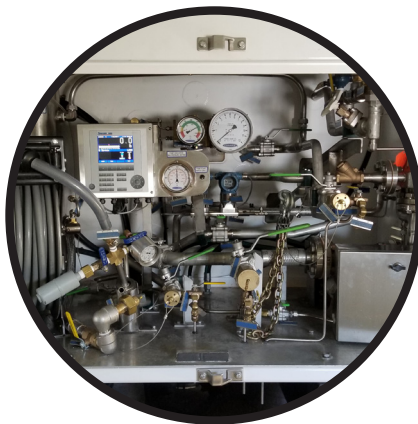


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