

ORCA™ HL SERIES GEN III

MICROBULK PUMP TRANSFER DELIVERY UNIT



TAKE CONTROL OF YOUR GAS MARKET WITH THE ORCA™ HL SERIES MICROBULK DELIVERY SYSTEM

Chart's MicroBulk delivery system has revolutionized the gas industry by making on-site distribution for smaller accounts a profitable reality. The Orca HL Series delivery unit has been designed to complete an entire fill operation with no pump cooling or product loss in inert service under normal conditions. Automatic fill termination with the MicroBulk Perma-Cyl® vessels eliminates safety hazards and lost product associated with overfilling. In total, the Chart MicroBulk system improves operator safety, increases asset utilization, reduces labor costs, simplifies the filling process, and maximizes distribution efficiency.

Chart offers a complete delivery system solution, to effortlessly manage a diverse range of applications. At the foundation of the MicroBulk system, the Orca HL Series offers fast, reliable, and accurate on-site delivery to Perma-Cyl storage vessels or small bulk tanks. The Orca HL series offers the widest range of bottle sizes, code options, and pump configurations.

ORCA GEN III PRODUCT HIGHLIGHTS

- Fast on-site filling of the Perma-Cyl® storage system with auto shut-off
- Exclusive low maintenance submerged pump for instant starts and continuous delivery (LIN or LAR Service)
- Single system minimizes contamination, cool down losses, and pressure drop
- Push-button Flowcom3000 meter system with advanced automation to simplify operation and operator training
- Electronic pump speed control allows operator to safely optimize delivery rate
- National Institute of Standards & Technology (NIST) and California Weights & Measures approved metering system
- Maintenance free, no moving parts, meter element with lifetime warranty
- Stainless steel and bronze plumbing for long service life
- Robust inner vessel support system for rugged road conditions
- Available in truck or trailer mount

- Auto subcool on all pump models extends pump life and improves meter accuracy
- Electronics capable of operating in temperatures down to -40°F/°C

ORCA GEN III UPDATED FEATURES

- 575psi max discharge 4-stage JD pump offering
- Uptime advanced remote monitoring and maintenance system*
- Horizontal meter section for improved cabinet plumbing layout and serviceability
- Larger cabinet and modified plumbing layout for easier maintenance and improved ergonomics
- Convenient cabinet door-mounted tool holder
- External cabinet pipe-aways for drains and safeties for additional operator safety
- Extra hose storage tube and vapor recovery circuit now standard
- Vent muffler now standard for LIN & LAR service

**see Uptime spec sheet for more information*



Cooler By Design®

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SPECIFICATIONS

MODEL	HL-2000	HL-2800	HL-3300
Gas Services	LIN, LAR & LOX	LIN, LAR & LOX	LIN, LAR & LOX
Pressure Builder Type	Pump force-feed / Auto Subcool	Pump force-feed / Auto Subcool	Pump force-feed / Auto Subcool
Design Codes	ASME, MC-338, CGA-341	ASME, MC-338, CGA-341	ASME, MC-338, CGA-341
SPECIFICATIONS	Overall Unit	Overall Unit	Overall Unit
Gross Capacity (gal/ltrs)	2144 / 8116	2880 / 10,902	3399 / 12,867
Capacity* ** - CGA-341 (gal/ltrs)	2037 / 7710	2736 / 10,357	3229 / 12,223
Capacity** - MC338 (gal/ltrs)	1907 / 7219	2560 / 9691	3023 / 11,443
MAWP (psig/bar)	50 / 3.4	50 / 3.4	50 / 3.4
Overall Length (in/cm)	200 / 508	244 / 620	273 / 693
Overall Height (in/cm)	87 / 221	87 / 221	87 / 221
Overall Width (in/cm)	102 / 259	102 / 259	102 / 259
Tank Diameter (in/cm)	80 / 203	80 / 203	80 / 203
Tare Weight (lbs/kg)	8500 / 3856	9400 / 4264	10,500 / 4763
PERFORMANCE	External Pump or Submerged Pump		
Dispense Method/Technology	External Pump or Submerged Pump		
Pump	External 60	Submerged 100 KA	Submerged 100 JD
Min. Dispensing Rate (gpm/lpm)	10 / 38	10 / 38	10 / 38
Max. Dispensing Rate (gpm/lpm)	60 / 227	100 / 379	100 / 379
Max. Dispensing Pressure (psig/barg)	260 / 17.9	425 / 29.3	575 / 39.6
Max. Receiving Tank Pressure (psig/barg)	210 / 14.5	375 / 25.9	500 / 34.5

* With vessel pressure control valve regulator under 25.3 psig

** Maximum fill levels depend on vehicle weight, local road weight limits, etc.

MAWP=Maximum Allowable Working Pressure. Specifications subject to change without notice.



Rear Cabinet



Uptime

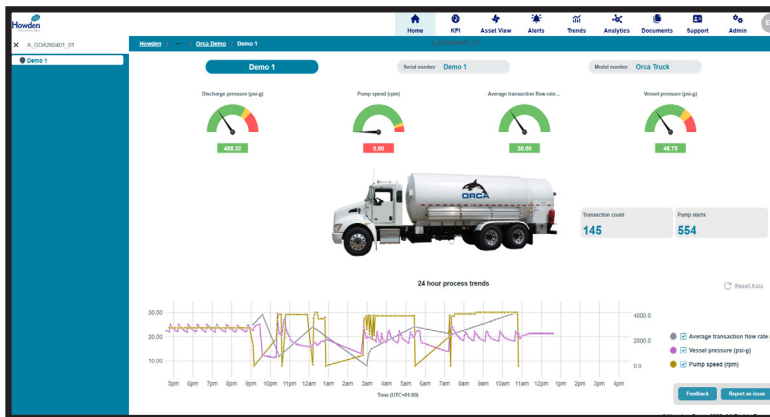


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