

# 22.5 Ton CO<sub>2</sub> Transport Trailer



## QUALITY IN ALL WE DO IS CORE TO OUR ETHOS

### Important Features

All **PCS CO<sub>2</sub> Transport Trailers** are designed and built to hold up to the rigorous demands of over-the-road operation.

- Stainless steel valves and piping.
- 4-1/2-inches of polyurethane foam insulation (not the 4-inches often used).
- All wetted surfaces are Food Grade (oxygen) cleaned.
- Diesel Kubota Engine / Belt-driven 3-inch Blackmer® Pump.

### Specifications

|                                             |                                                    |
|---------------------------------------------|----------------------------------------------------|
| Pressure Vessel:                            | Steel Alloy ASTM 517- Grade E<br>(rated to -50° F) |
| Codes:                                      | ASME SEC VIII / DIV 1 / UHT, DOT MC-331            |
| Capacity - Water Volume :                   | 5,600 gallons                                      |
| Capacity - CO <sub>2</sub> :                | 22.5 Tons LC02 @ 95%                               |
| Maximum Allowable Working Pressure (MSWP):  | 300 psi                                            |
| Design Temperature:                         | -50° F to 150° F                                   |
| Slosh Baffles:                              | 2                                                  |
| Safety Relief Valve Setting:                | 330 psi                                            |
| Dual Pressure Control Valves with Diverter: | 300 psi                                            |
| Engine-Belt Pump Drive:                     | Kubota D-1105, 22 HP                               |
| Nominal Flow Rate Range:                    | 20 – 150 GPM                                       |

For additional technical information, or to request a quotation, please contact us:

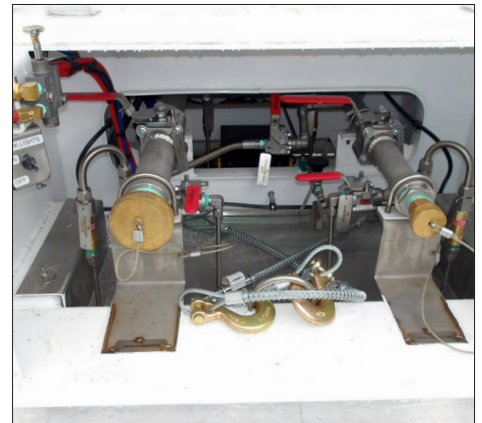
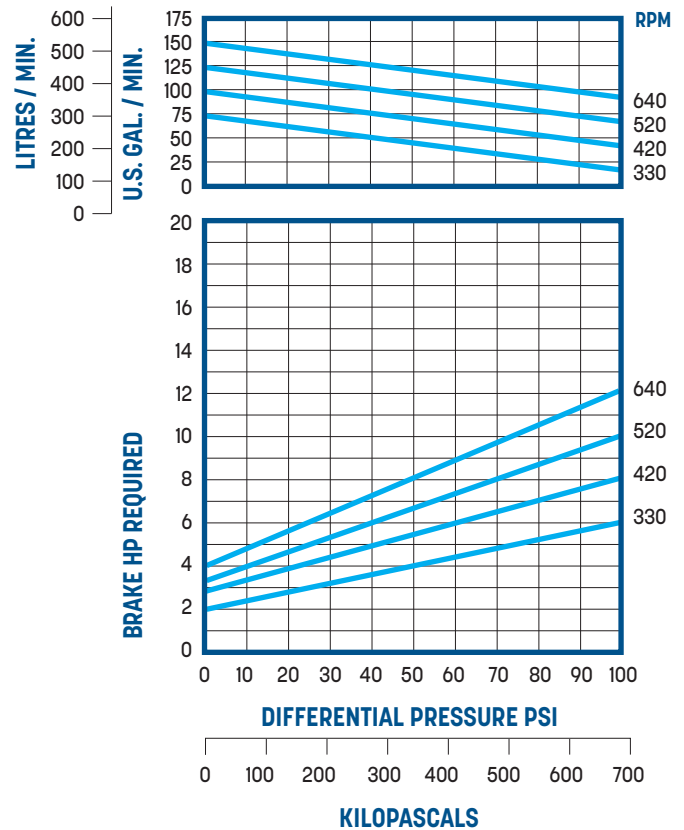
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## Additional Features and Details

- The Kubota engine and operational valves are accessed via the side doors of the under-belly piping compartment and in the small rear compartment where the hoses are connected. Optional side hose connections are also available.
- In its liquid form, CO<sub>2</sub> is non-lubricating and stored at sub-zero temperatures in vessels under high pressures, making it extremely difficult to transfer. The Blackmer® CRL3 Sliding Vane Pump was designed for, and offers a robust and efficient solution, engineered to handle the toughest liquid CO<sub>2</sub> applications with confidence and reliability. The pump delivers sustained high-level performance, energy efficiency, trouble-free operation and low maintenance costs.
- The pumping circuit includes a state-of-the-art, Turbines Inc., CDS-2000, Weights and Measures approved, flow metering system.
- A Magnetel float or differential pressure liquid level gauge, not a roto-gauge, easily indicates product quantity.
- 19-feet long (plus connections), 2-inch diameter liquid and 1-1/2" diameter vapor hoses, with cabled hose restraints, are included.

## CRL3 Pump Characteristic Curves Models: CRLR 1.25, CRL 1.25, CRL 1.5, CRL2, CRL3



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